Appendix 6E

Analysis of Delta Salinity Indicators

This appendix provides information about the methods and assumptions used for the Remanded Biological Opinions on the Coordinated Long-Term Operation of the Central Valley Project (CVP) and State Water Project (SWP) Environmental Impact Statement (EIS) analysis for Delta salinity indicators. It is organized into two main sections that are briefly described below:

- Section 6E.1: Analysis of Delta Salinity Indicators Methodology and Assumptions
  - The impacts analysis for Delta salinity indicators uses the DSM2-QUAL model to quantify changes in salinity, chloride, and bromide concentrations. This section describes the overall analytical approach and assumptions for simulations of the No Action Alternative, Second Basis of Comparison, and the other alternatives.
- Section 6E.2: Analysis of Delta Salinity Indicators Results
  - This section presents the results for salinity, chloride concentration, and bromide concentration at different locations within in the Delta.

6E.1 Analysis of Delta Salinity Indicators Methodology and Assumptions

6E.1.1 Analysis Methodology

To evaluate the potential effects on water quality within the Delta, three different parameters were quantified: salinity (measured as Electrical Conductivity [EC]), chloride concentration, and bromide concentration. This section describes how these parameters were estimated for the analysis.

6E.1.1.1 Salinity

Monthly average salinity in the Delta was estimated at select locations within the Delta in terms of EC (in units of micromhos per centimeter [µmhos/cm]) using the DSM2-QUAL model for all the alternatives. Refer to Appendix 5A, Section A for a detailed description of the DSM2-QUAL model.

6E.1.1.2 Chloride Concentration

Monthly average chloride concentration at primarily diversion and export locations within the Delta was calculated based on the maximum of the following regression equations taken from CalSim II:

$$CCl- = EC*0.285-50$$

$$CCl- = EC*0.15-12$$

where: EC is the monthly average Electrical Conductivity value at the export location and CCl- is the monthly average chloride concentration in mg/L

The regression equations calculate chloride concentrations based on whether the location is riverine or seawater dominant. To be conservative, the maximum of chloride concentration calculated using the above two equations was used. The EC value in this equation is the salinity value described previously that is output from the DSM2-QUAL model.

6E.1.1.3 Bromide Concentration

Monthly average bromide concentration at diversion and export locations within the Delta was calculated based on the following regression equations from the California Department of Water Resources (DWR) 33rd Annual Progress Report (DWR 2012):

$$\text{if } VolFpMartinez < 0.4 \text{ then } CBr- = EC*0.0004-0.0364$$

$$\text{if } VolFpMartinez > 0.4 \text{ then } CBr- = EC*0.0000827-0.1117$$

where: VolFpMartinez is the monthly average Martinez Source Water (Volumetric) Fingerprinting value at the location, EC is the monthly average Electrical Conductivity (µmhos/cm) value at the export location and CBr- is the monthly average bromide concentration (mg/L)

The Volumetric Fingerprinting and EC values (the same salinity value used for the chloride calculation) in this equation are both outputs of the DSM2-QUAL model, and methodology for estimating these parameters is described in Appendix 5A, Section A.

6E.1.2 Analysis Scenario Assumptions

This section describes the assumptions for the Analysis of the Delta Salinity Indicators for the No Action Alternative, Second Basis of Comparison, and other alternatives.

The following CalSim II model simulations were performed as the basis of evaluating the impacts of the other alternatives:

- No Action Alternative
- Second Basis of Comparison

The following model simulations of other alternatives were performed:

- Alternative 1 – for simulation purposes, considered the same as Second Basis of Comparison
- Alternative 2 – for simulation purposes, considered the same as No Action Alternative
- Alternative 3
- Alternative 4 – for simulation purposes, considered the same as Second Basis of Comparison.

- Alternative 5

Assumptions for each of these alternatives were developed with the surface water modeling tools and are described in Appendix 5A, Section B.

Alternative 1 modeling assumptions are the same as the Second Basis of Comparison, and Alternative 2 modeling assumptions are the same as the No Action Alternative; therefore, the assumptions for those alternatives are not going to be discussed separately in this document.

Assumptions for each of these alternatives are reflected to monthly CalSim II flows that are input into the DSM2 model to generate the salinity results described in this section. The salinity (EC) results are then used to calculate the chloride and bromide concentrations based on the equations described in this section. The equations described above pertain to all alternatives.

6E.2 Analysis of Delta Salinity Indicators Results

Results are provided for each of the following runs separately:

- No Action Alternative
- Second Basis of Comparison
- Alternative 1
- Alternative 3
- Alternative 5

In addition, the same statistics are provided for the following comparisons to establish changes of the alternative with respect to one of the bases of comparison:

- Alternative 1 compared to No Action Alternative
- Alternative 3 compared to No Action Alternative
- Alternative 5 compared to No Action Alternative
- No Action Alternative compared to Second Basis of Comparison
- Alternative 1 compared to Second Basis of Comparison
- Alternative 3 compared to Second Basis of Comparison
- Alternative 5 compared to Second Basis of Comparison

The first set of results is provided as probability of exceedance curves of salinity (EC) for select locations within the Delta. For this analysis, exceedance plots for monthly average EC were generated based on the 82-year CalSim II time period for each of the alternatives and bases of comparison. Differences among alternatives were evaluated using the exceedance probability corresponding to varying levels of salinity. The first set of results is provided as the following figures:

- B.1. Sacramento River downstream of Steamboat Slough Salinity (Figures 6E.B.1.1. through 6E.B.1.12.)

- B.2. Sacramento River at Emmaton Salinity (Figures 6E.B.2.1. through 6E.B.2.12.)
- B.3. San Joaquin River at Jersey Point Salinity (Figures 6E.B.3.1. through 6E.B.3.12.)
- B.4. Sacramento River at Collinsville Salinity (Figures 6E.B.4.1. through 6E.B.4.12.)
- B.5. Sacramento River at Mallard Slough Salinity (Figures 6E.B.5.1. through 6E.B.5.12.)
- B.6. Sacramento River at Port Chicago Salinity (Figures 6E.B.6.1. through 6E.B.6.12.)
- B.7. Jones Pumping Plant Salinity (Figures 6E.B.7.1. through 6E.B.7.12.)
- B.8. Banks Pumping Plant Salinity (Figures 6E.B.8.1. through 6E.B.8.12.)
- B.9. Antioch Salinity (Figures 6E.B.9.1. through 6E.B.9.12.)
- B.10.1. Chipps Island North Channel Salinity (Figures 6E.B.10.1.1. through 6E.B.10.1.12.)
- B.10.2. Chipps Island South Channel Salinity (Figures 6E.B.10.2.1. through 6E.B.10.2.12.)
- B.11. Old River at Rock Slough Salinity (Figures 6E.B.11.1. through 6E.B.11.12.)
- B.12. Contra Costa Water District Old River Intake Salinity (Figures 6E.B.12.1. through 6E.B.12.12.)
- B.13. Contra Costa Water District Victoria Canal Intake Salinity (Figures 6E.B.13.1. through 6E.B.13.12.)
- B.14. Barker Slough North Bay Aqueduct Intake Salinity (Figures 6E.B.14.1. through 6E.B.14.12.)
- B.15. San Joaquin River at Vernalis Salinity (Figures 6E.B.15.1. through 6E.B.15.12.)

A discussion of results and impact assessment is provided in the Environmental Consequences section of Chapter 6.

The second set of results is provided as tables summarizing the EC as well as chloride and bromide concentrations at select locations within the Delta with long-term averages over the entire CalSim II simulation period. Averages are also provided by water year type.

As noted earlier, EC was used as surrogate for Delta salinity results.

The following results are presented in this section:

- B.1. Sacramento River downstream of Steamboat Slough Salinity (Tables 6E.B.1.1. through 6E.B.1.6.)

- B.2. Sacramento River at Emmaton Salinity (Tables 6E.B.2.1. through 6E.B.2.6.)
- B.3. San Joaquin River at Jersey Point Salinity (Tables 6E.B.3.1. through 6E.B.3.6.)
- B.4. Sacramento River at Collinsville Salinity (Tables 6E.B.4.1. through 6E.B.4.6.)
- B.5. Sacramento River at Mallard Slough Salinity (Tables 6E.B.5.1. through 6E.B.5.6.)
- B.6. Sacramento River at Port Chicago Salinity (Tables 6E.B.6.1. through 6E.B.6.6.)
- B.7. Jones Pumping Plant Salinity (Tables 6E.B.7.1. through 6E.B.7.6.)
- B.8. Banks Pumping Plant Salinity (Tables 6E.B.8.1. through 6E.B.8.6.)
- B.9. Antioch Salinity (Tables 6E.B.9.1. through 6E.B.9.6.)
- B.10.1. Chipps Island North Channel Salinity (Tables 6E.B.10.1.1. through 6E.B.10.1.6.)
- B.10.2. Chipps Island South Channel Salinity (Tables 6E.B.10.2.1. through 6E.B.10.2.6.)
- B.11. Old River at Rock Slough Salinity (Tables 6E.B.11.1. through 6E.B.11.6.)
- B.12. Contra Costa Water District Old River Intake Salinity (Tables 6E.B.12.1. through 6E.B.12.6.)
- B.13. Contra Costa Water District Victoria Canal Intake Salinity (Tables 6E.B.13.1. through 6E.B.13.6.)
- B.14. Barker Slough North Bay Aqueduct Intake Salinity (Tables 6E.B.14.1. through 6E.B.14.6.)
- B.15. San Joaquin River at Vernalis Salinity (Tables 6E.B.15.1. through 6E.B.15.6.)
- B.16. Sacramento River at Mallard Slough Chloride Concentration (Tables 6E.B.16.1. through 6E.B.16.6.)
- B.17. Jones Pumping Plant Chloride Concentration (Tables 6E.B.17.1. through 6E.B.17.6.)
- B.18. Banks Pumping Plant Chloride Concentration (Tables 6E.B.18.1. through 6E.B.18.6.)
- B.19. Old River at Rock Slough Chloride Concentration (Tables 6E.B.19.1. through 6E.B.19.6.)
- B.20. Contra Costa Water District Old River Intake Chloride Concentration (Tables 6E.B.20.1. through 6E.B.20.6.)

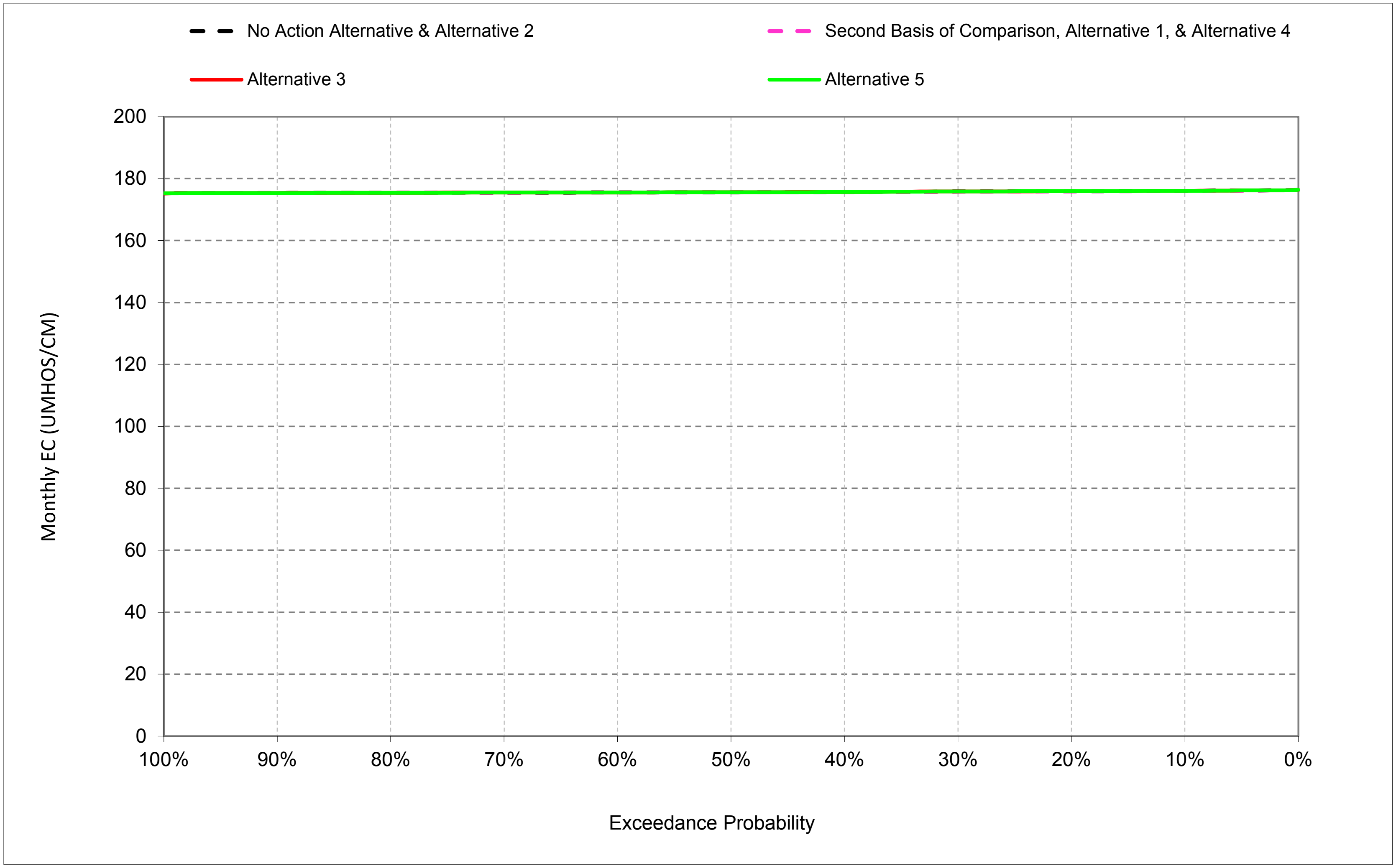
- B.21. Contra Costa Water District Victoria Canal Intake Chloride Concentration (Tables 6E.B.21.1. through 6E.B.21.6.)
- B.22. Antioch Chloride Concentration (Tables 6E.B.22.1. through 6E.B.22.6.)
- B.23. Jones Pumping Plant Bromide Concentration (Tables 6E.B.23.1. through 6E.B.23.6.)
- B.24. Banks Pumping Plant Bromide Concentration (Tables 6E.B.24.1. through 6E.B.24.6.)
- B.25. Old River at Rock Slough Bromide Concentration (Tables 6E.B.25.1. through 6E.B.25.6.)
- B.26. Contra Costa Water District Old River Intake Bromide Concentration (Tables 6E.B.26.1. through 6E.B.26.6.)
- B.27. Contra Costa Water District Victoria Canal Intake Bromide Concentration (Tables 6E.B.27.1. through 6E.B.27.6.)

6E.3 References

DWR (California Department of Water Resources). 2012. "Chapter 5: Estimating Delta-wide Bromide Using DSM2-Simulated EC Fingerprints. Methodology for Flow and Salinity Estimates in the Sacramento-San Joaquin Delta and Suisun Marsh", 33rd Annual Progress Report.

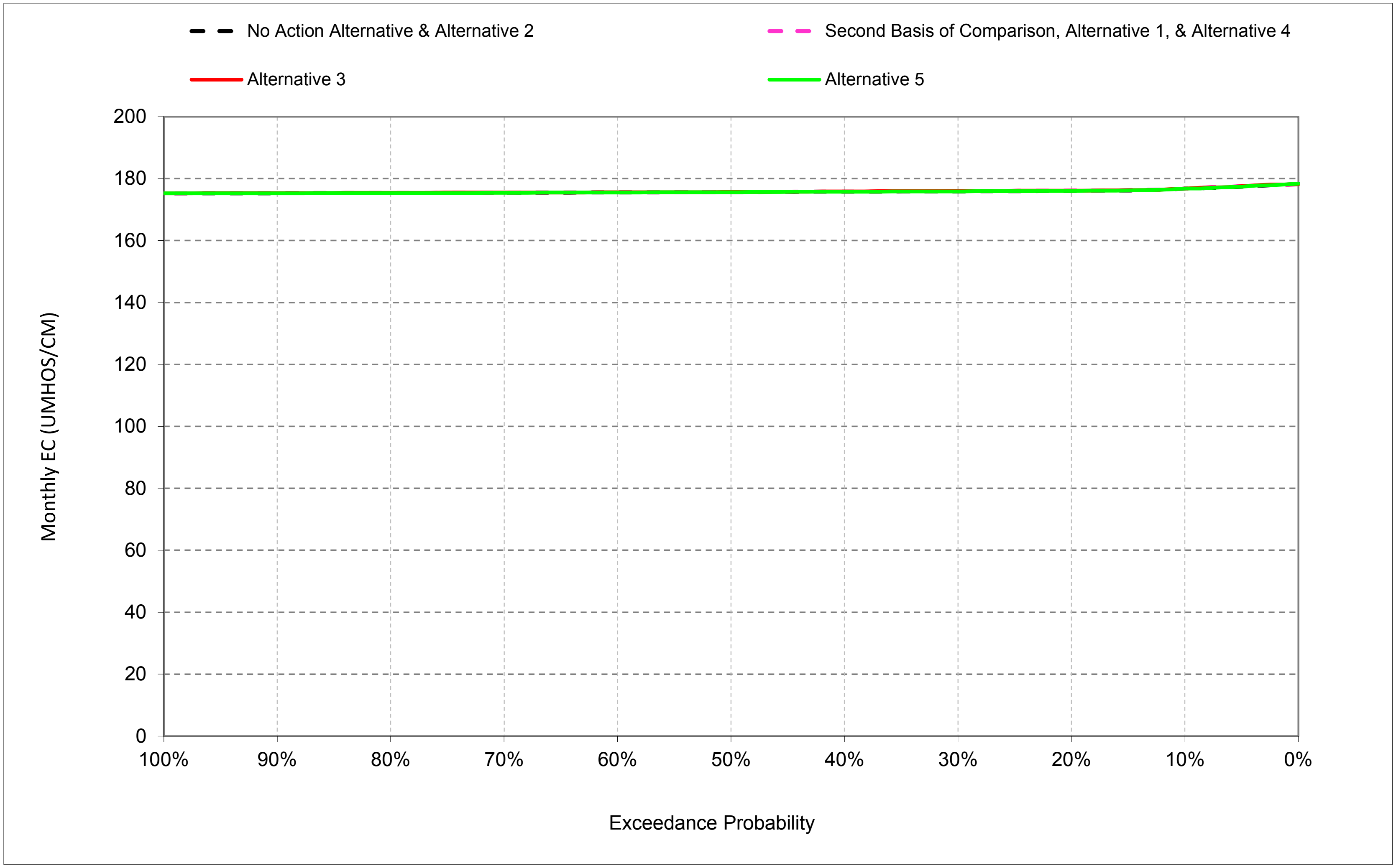
B.1. Sacramento River downstream of Steamboat Slough Salinity

Figure 6E.B.1.1. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, October



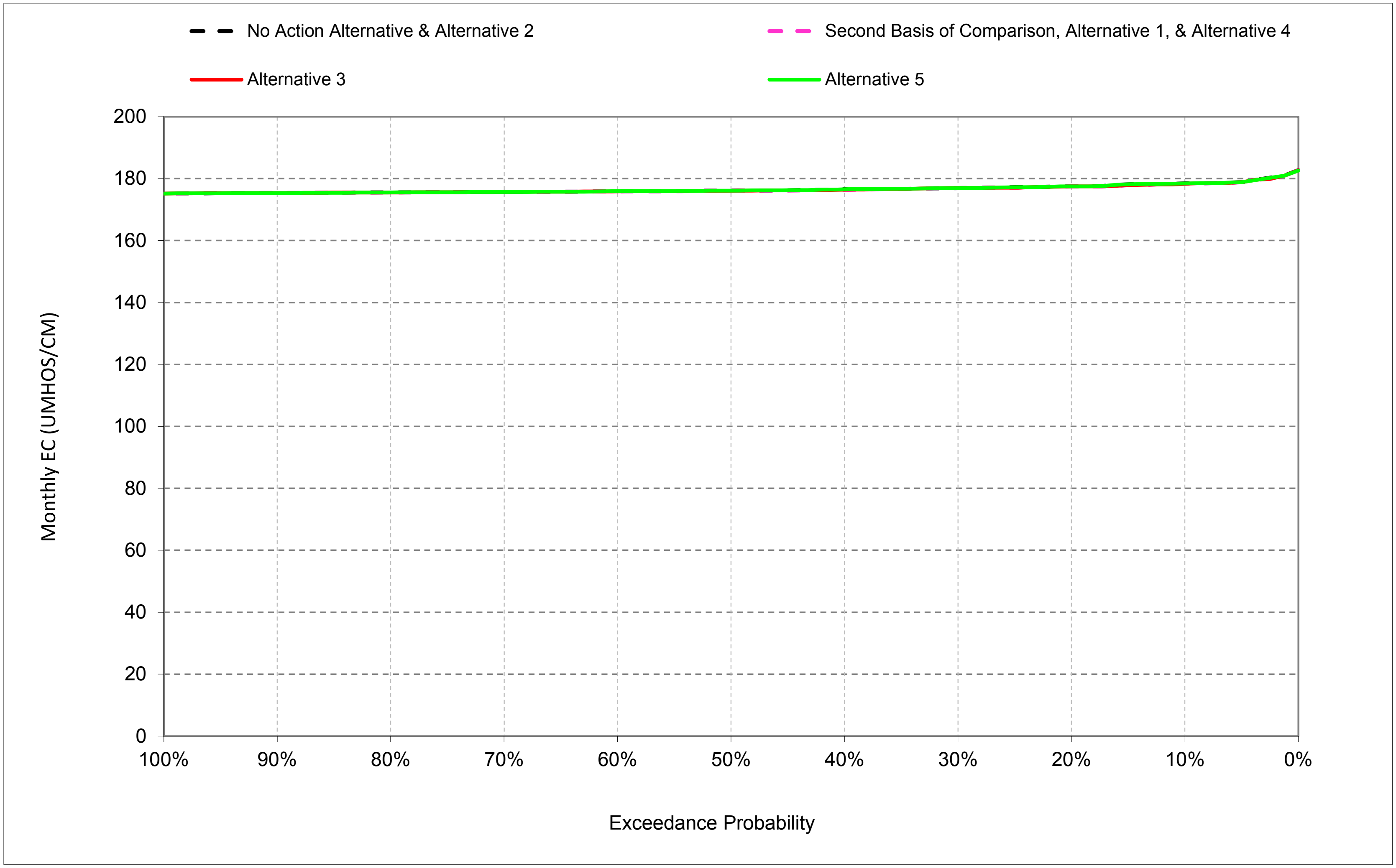
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.2. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, November



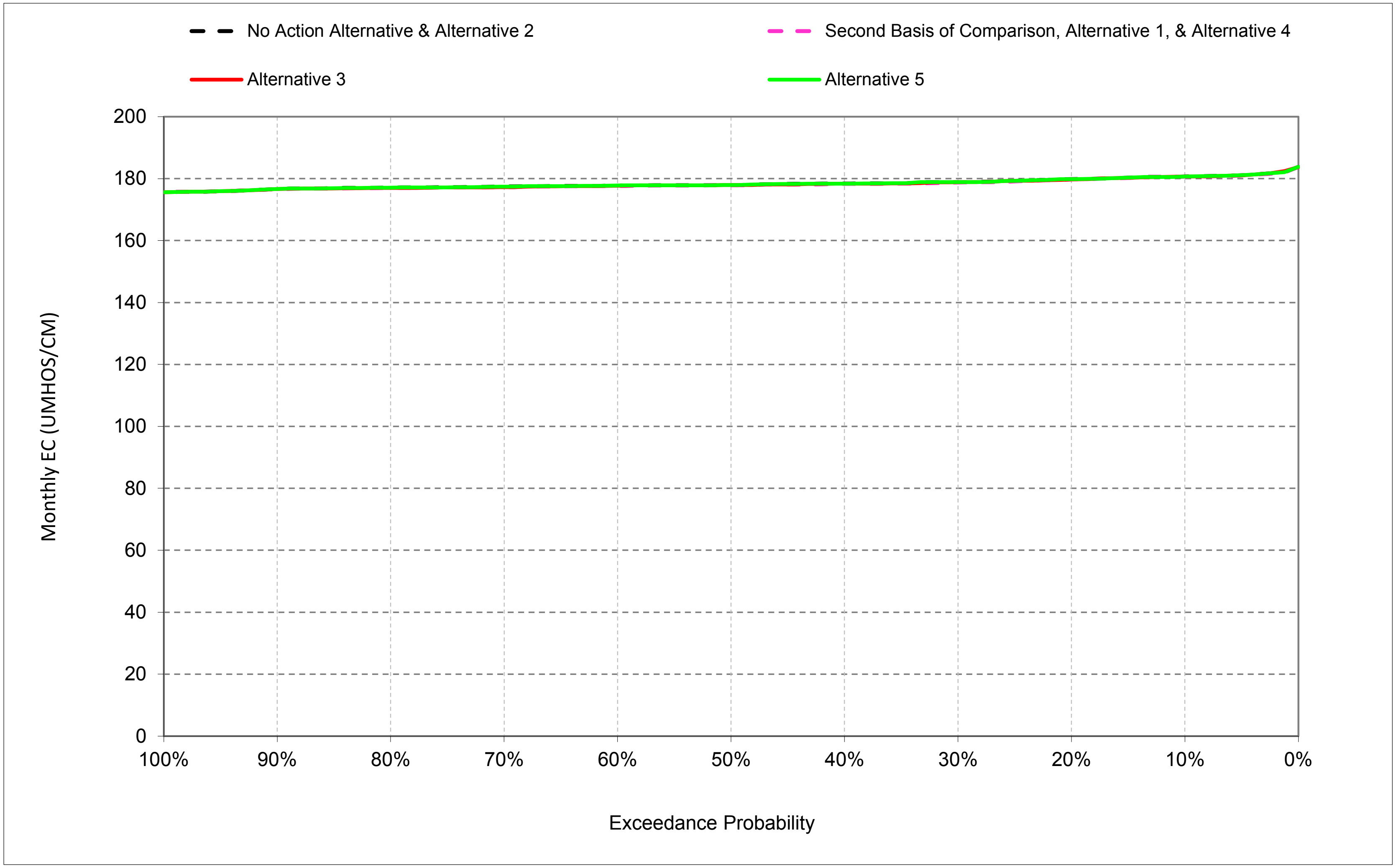
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.3. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, December



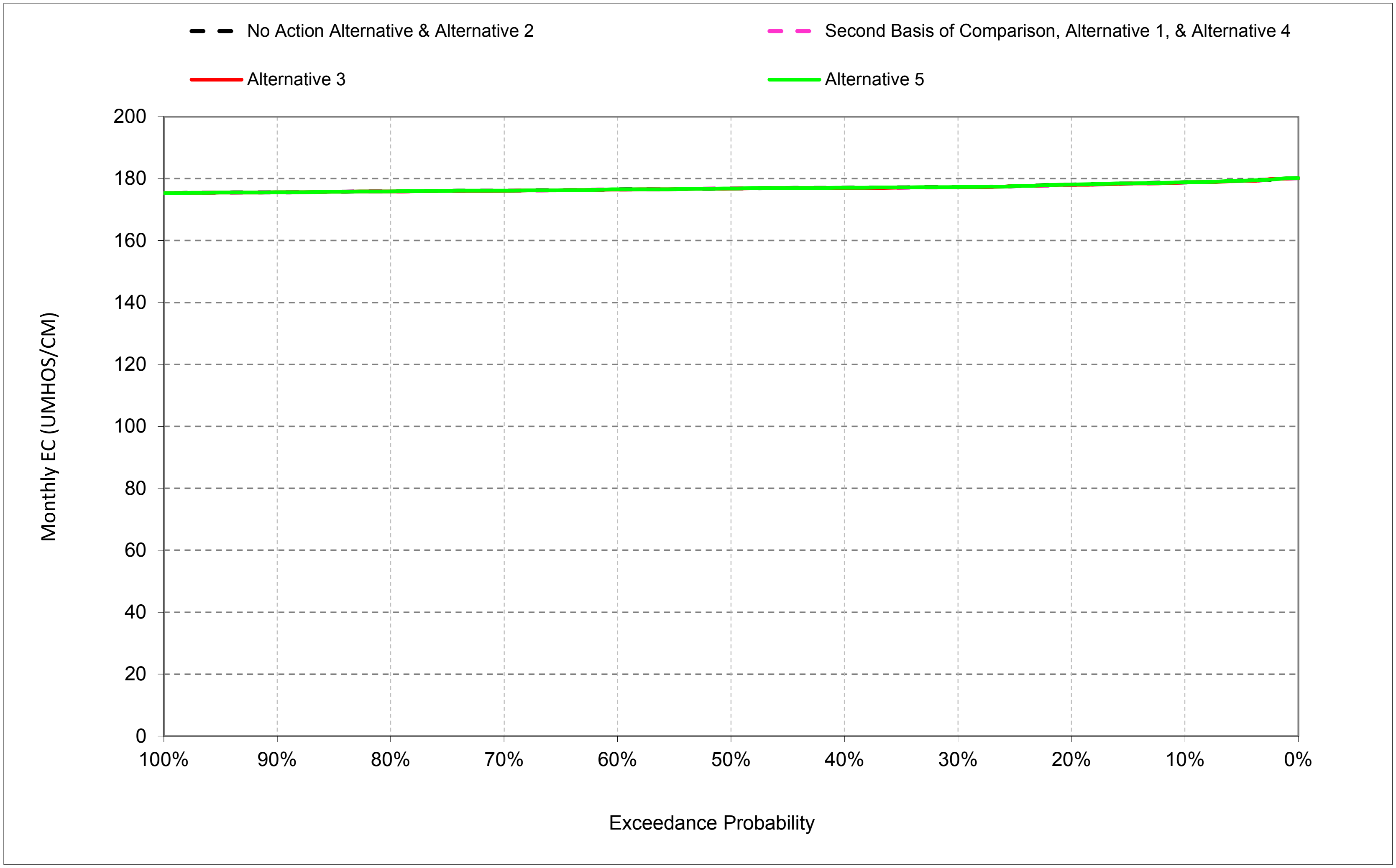
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.4. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, January



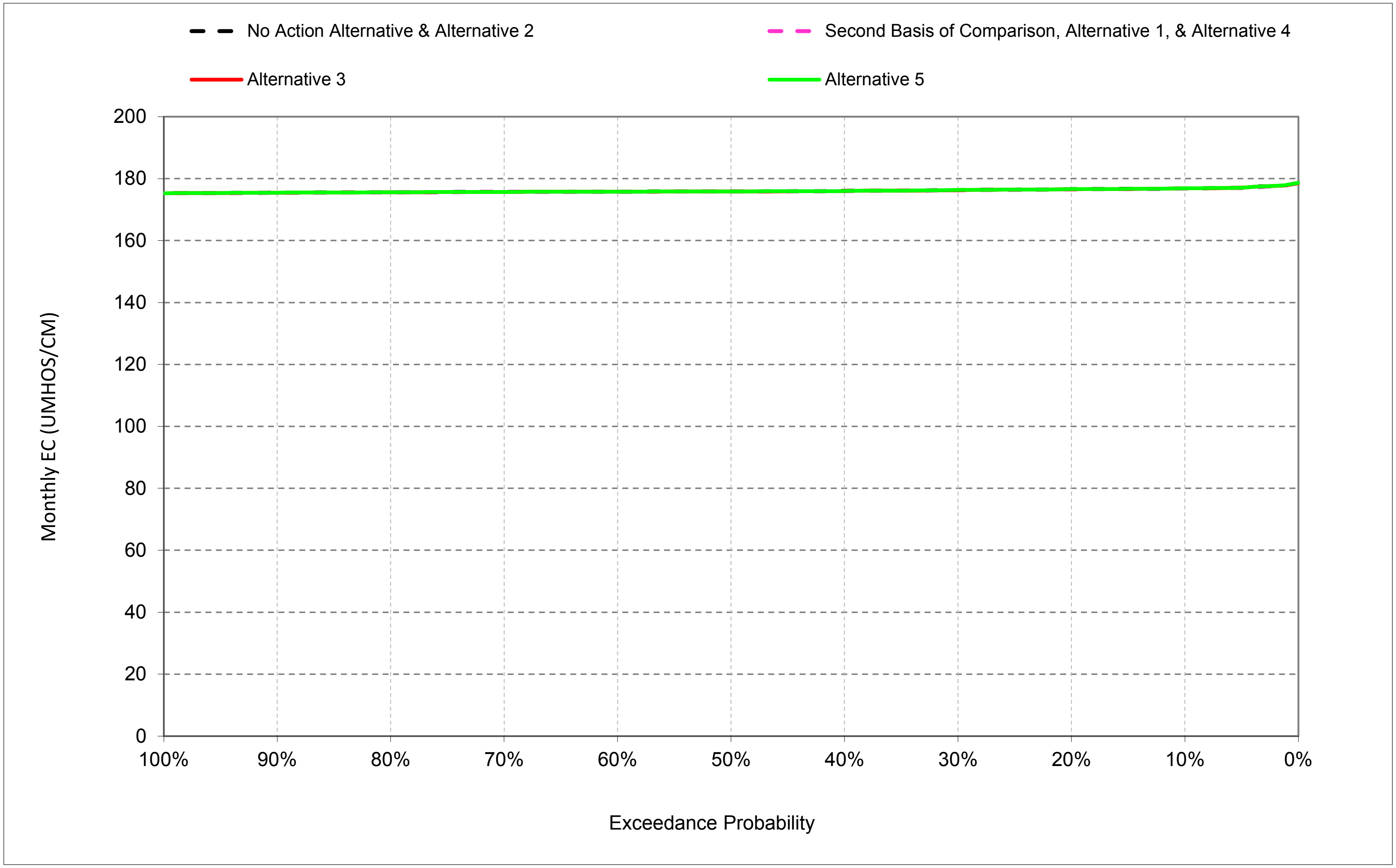
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.5. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, February



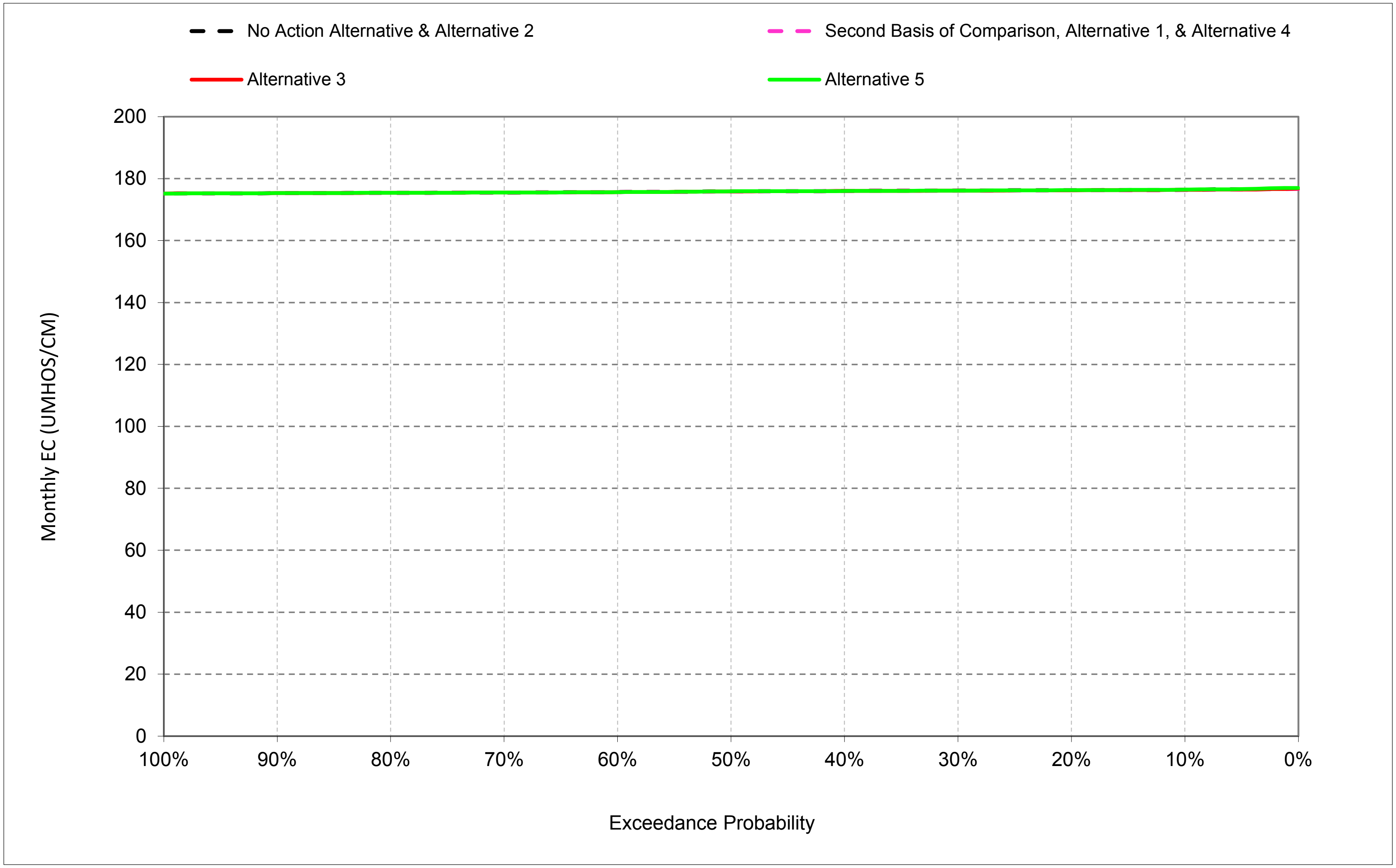
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.6. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, March



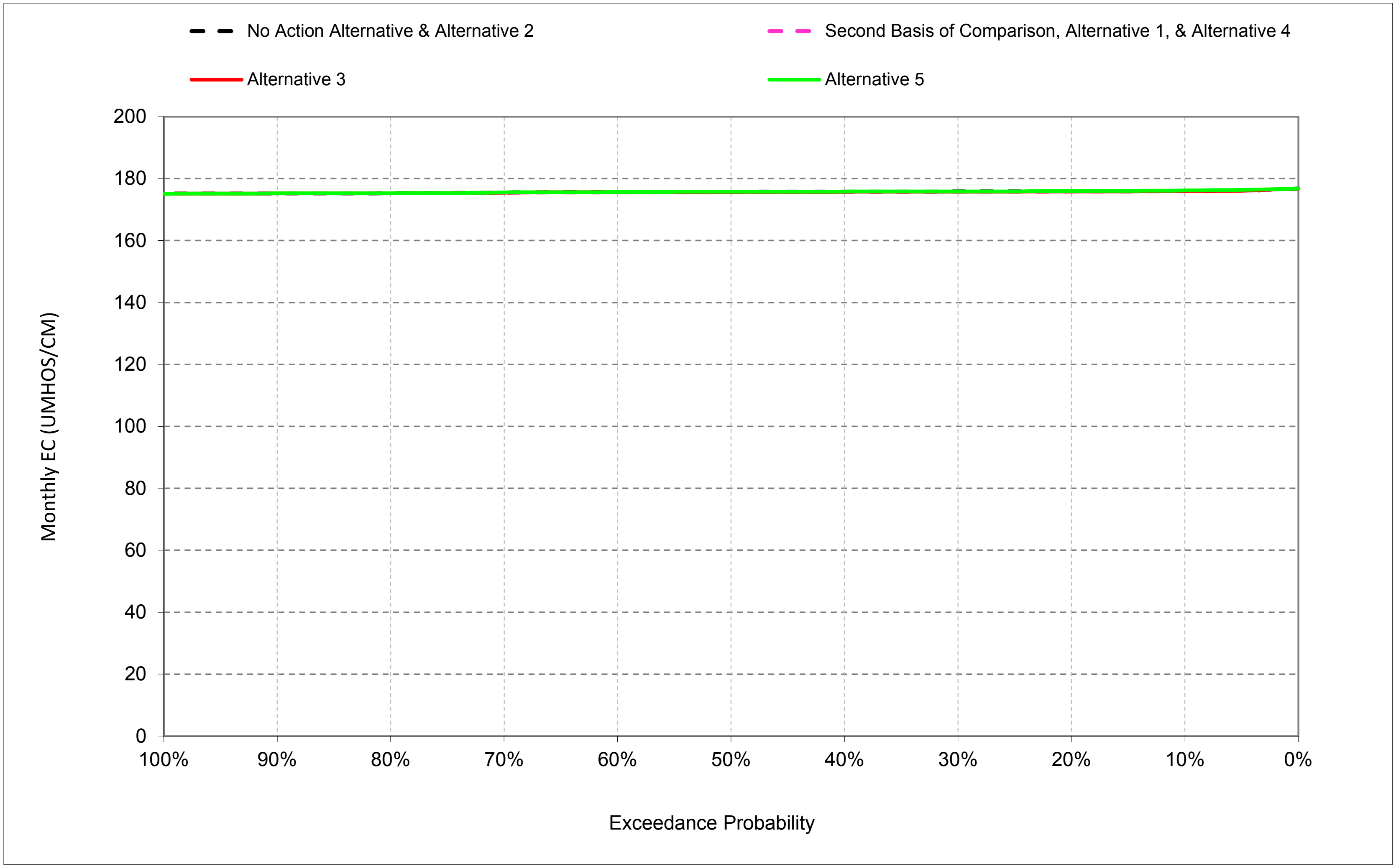
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.7. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, April



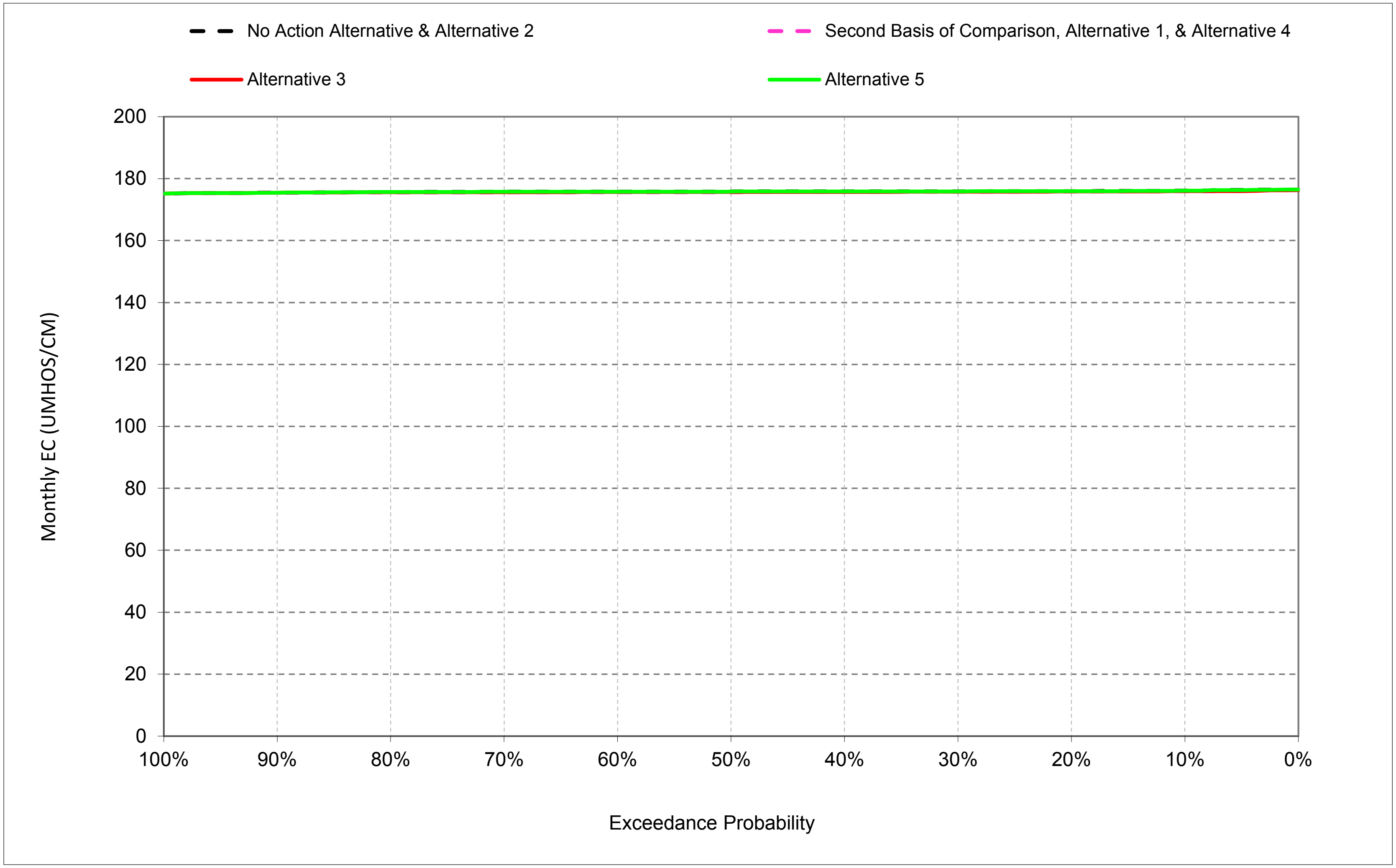
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.8. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, May



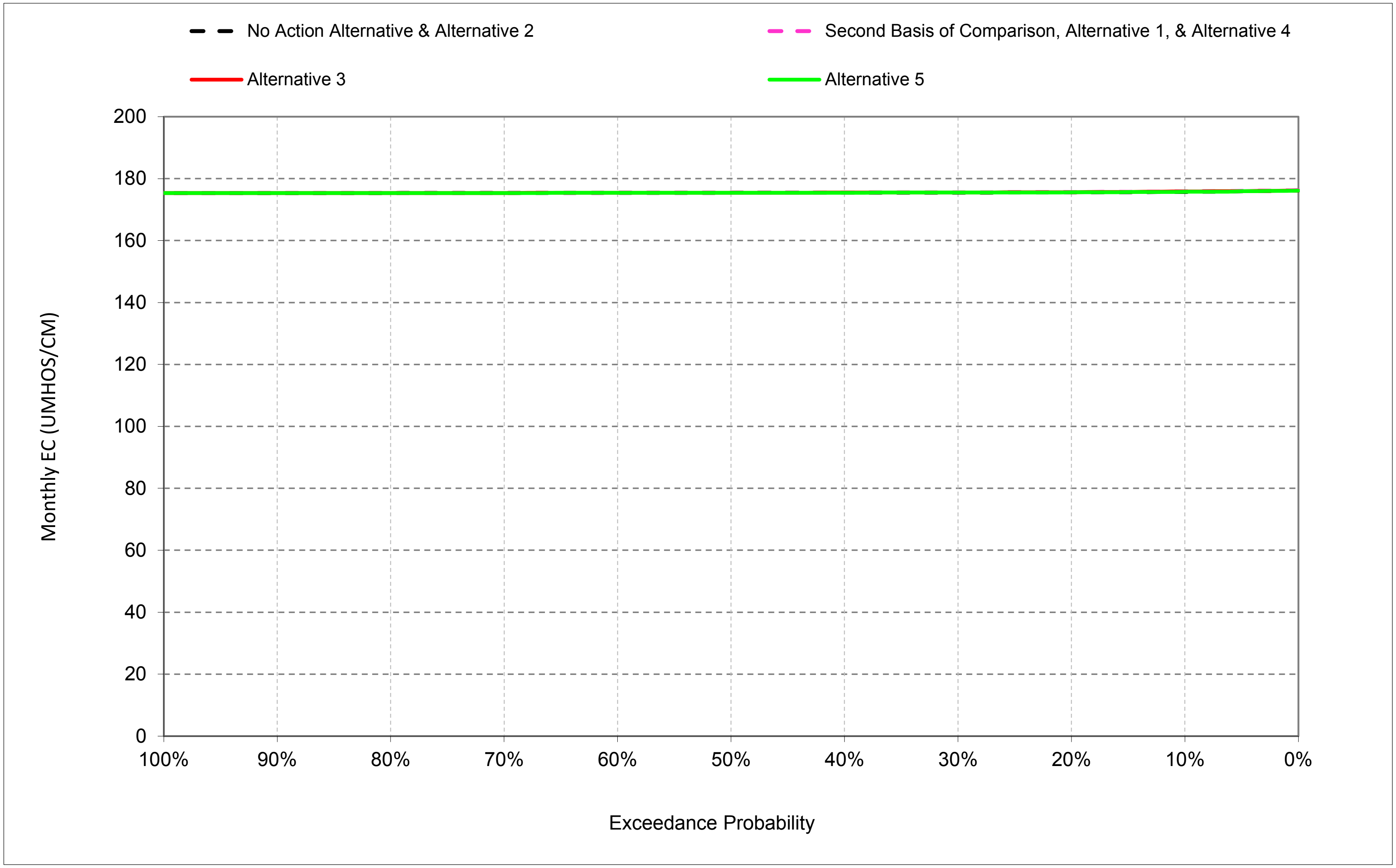
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.9. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, June



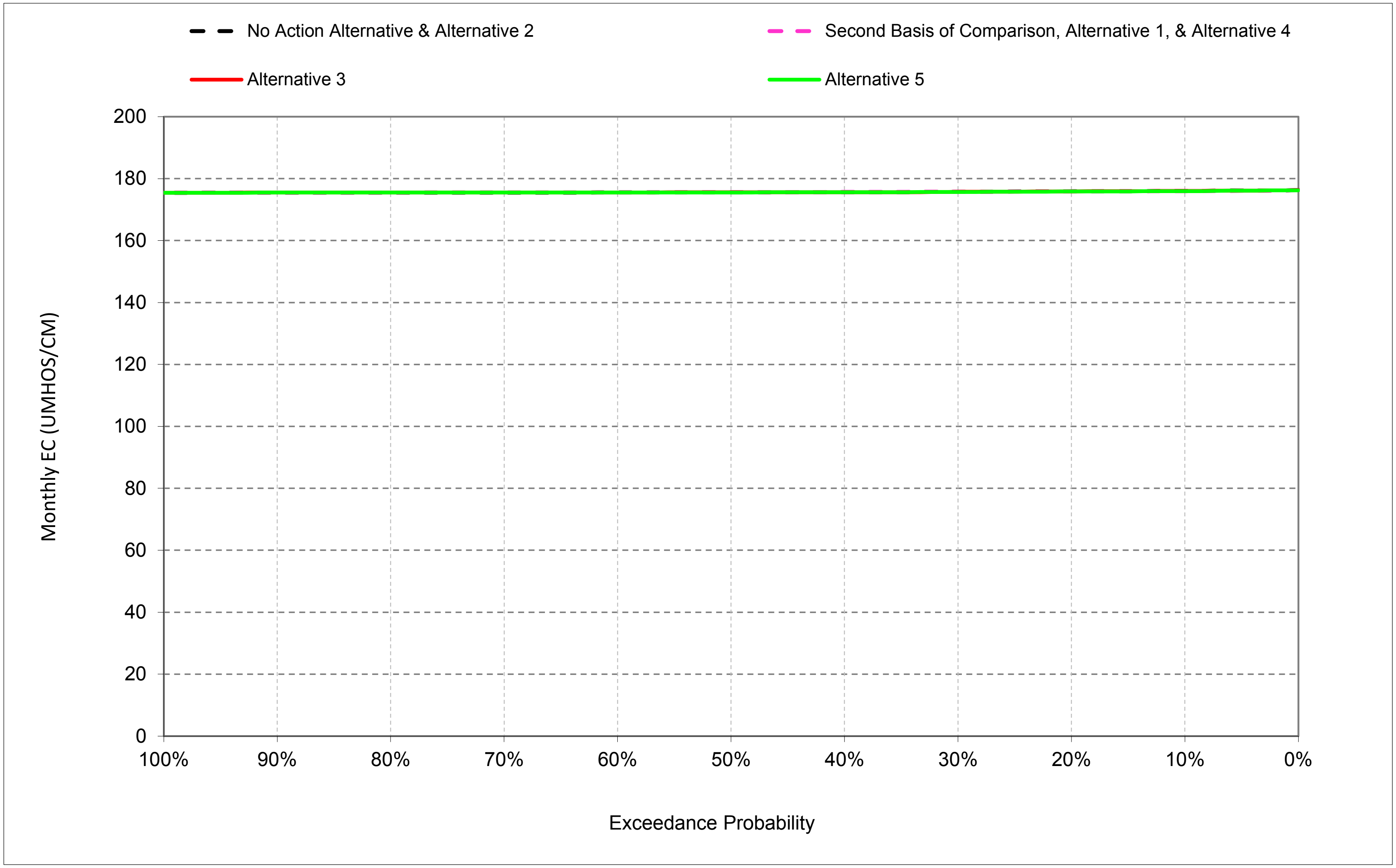
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.10. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, July



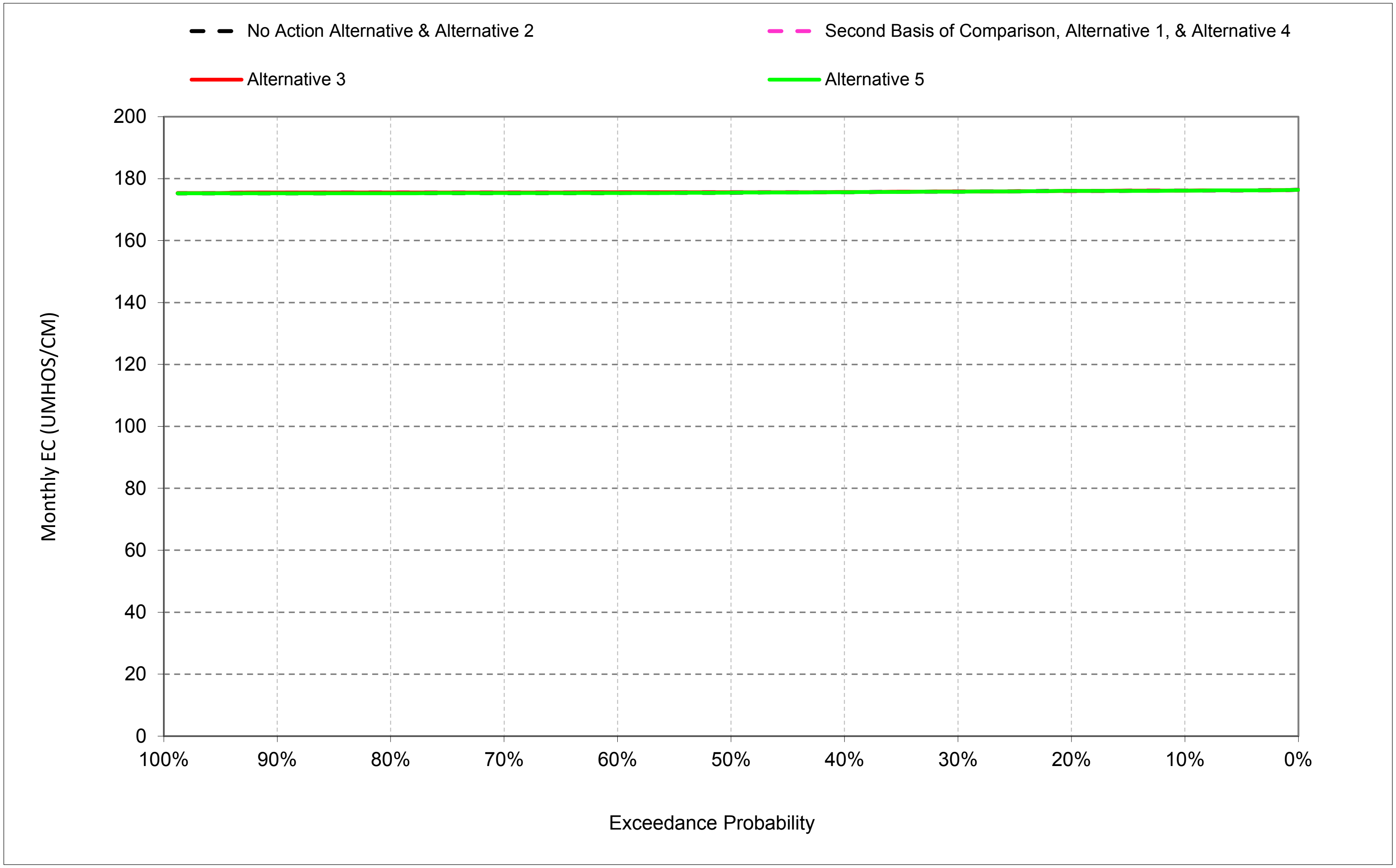
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.11. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.1.12. Sacramento River d/s of Steamboat Slough Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.1.1. Sacramento River d/s of Steamboat Slough Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	175	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	177	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	176	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	175	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	175
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	175	175
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	179	178	177	176	176	176	176	176	176

Alternative 1

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	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	176	178	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	176
70%	175	176	176	177	176	176	175	176	176	175	176	176
80%	175	175	176	177	176	176	175	175	176	175	176	176
90%	175	175	175	177	176	175	175	175	175	175	175	176
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	176
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	176	176
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	178	178	177	176	176	176	176	176	176

Alternative 1 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (32%)	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
Below Normal (13%)	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
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.1.2. Sacramento River d/s of Steamboat Slough Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	175	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	177	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	176	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	175	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	175
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	175	175
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	179	178	177	176	176	176	176	176	176

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	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	176	178	177	176	176	176	176	175	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	176
70%	176	175	176	177	176	176	175	175	176	175	176	176
80%	175	175	176	177	176	176	175	175	176	175	176	176
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	176
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	176	176
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	179	178	177	176	176	176	176	176	176

Alternative 3 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (32%)	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
Below Normal (13%)	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
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.1.3. Sacramento River d/s of Steamboat Slough Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	175	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	177	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	176	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	175	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	175
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	175	175
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	179	178	177	176	176	176	176	176	176

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	175	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	177	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	176	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	175	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	175
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	175	175
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	175	176	176
Critical (15%)	176	176	177	179	178	177	176	176	176	176	176	176

Alternative 5 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (32%)	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
Below Normal (13%)	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
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.1.4. Sacramento River d/s of Steamboat Slough Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	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	176	178	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	176
70%	175	176	176	177	176	176	175	176	176	175	176	176
80%	175	175	176	177	176	176	175	175	176	175	176	176
90%	175	175	175	177	176	175	175	175	175	175	175	176
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	176
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	176	176
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	178	178	177	176	176	176	176	176	176

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	175	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	177	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	176	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	175	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	175
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	175	175
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	179	178	177	176	176	176	176	176	176

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (32%)	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
Below Normal (13%)	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
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.1.5. Sacramento River d/s of Steamboat Slough Salinity, Monthly EC

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	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	176	178	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	176
70%	175	176	176	177	176	176	175	176	176	175	176	176
80%	175	175	176	177	176	176	175	175	176	175	176	176
90%	175	175	175	177	176	175	175	175	175	175	175	176
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	176
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	176	176
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	178	178	177	176	176	176	176	176	176

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	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	176	178	177	176	176	176	176	175	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	176
70%	176	175	176	177	176	176	175	175	176	175	176	176
80%	175	175	176	177	176	176	175	175	176	175	176	176
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	176
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	176	176
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	179	178	177	176	176	176	176	176	176

Alternative 3 minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (32%)	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
Below Normal (13%)	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
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.1.6. Sacramento River d/s of Steamboat Slough Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	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	176	178	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	176
70%	175	176	176	177	176	176	175	176	176	175	176	176
80%	175	175	176	177	176	176	175	175	176	175	176	176
90%	175	175	175	177	176	175	175	175	175	175	175	176
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	176	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	176
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	176	176
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	176	176	176
Critical (15%)	176	176	177	178	178	177	176	176	176	176	176	176

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	176	177	178	181	179	177	176	176	176	176	176	176
20%	176	176	177	180	178	177	176	176	176	176	176	176
30%	176	176	177	179	177	176	176	176	176	175	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	177	176	176	176	176	175	176	175
70%	175	175	176	177	176	176	175	176	176	175	176	175
80%	175	175	176	177	176	176	175	175	176	175	175	175
90%	175	175	175	177	176	175	175	175	175	175	175	175
Long Term												
Full Simulation Period[b]	176	176	177	178	177	176	176	176	176	175	176	176
Water Year Types[c]												
Wet (32%)	176	176	177	178	176	176	176	175	176	175	176	175
Above Normal (16%)	176	176	177	178	177	176	176	176	176	175	175	175
Below Normal (13%)	176	176	177	178	177	176	176	176	176	175	176	176
Dry (24%)	176	176	176	179	177	176	176	176	176	175	176	176
Critical (15%)	176	176	177	179	178	177	176	176	176	176	176	176

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0	0	0	0	0	0	0	0	0	0	0	0
20%	0	0	0	0	0	0	0	0	0	0	0	0
30%	0	0	0	0	0	0	0	0	0	0	0	0
40%	0	0	0	0	0	0	0	0	0	0	0	0
50%	0	0	0	0	0	0	0	0	0	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	0	0	0	0	0	0	0	0	0
80%	0	0	0	0	0	0	0	0	0	0	0	0
90%	0	0	0	0	0	0	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	0	0	0	0	0	0	0	0	0	0	0	0
Water Year Types[c]												
Wet (32%)	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
Below Normal (13%)	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
Critical (15%)	0	0	0	0	0	0	0	0	0	0	0	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

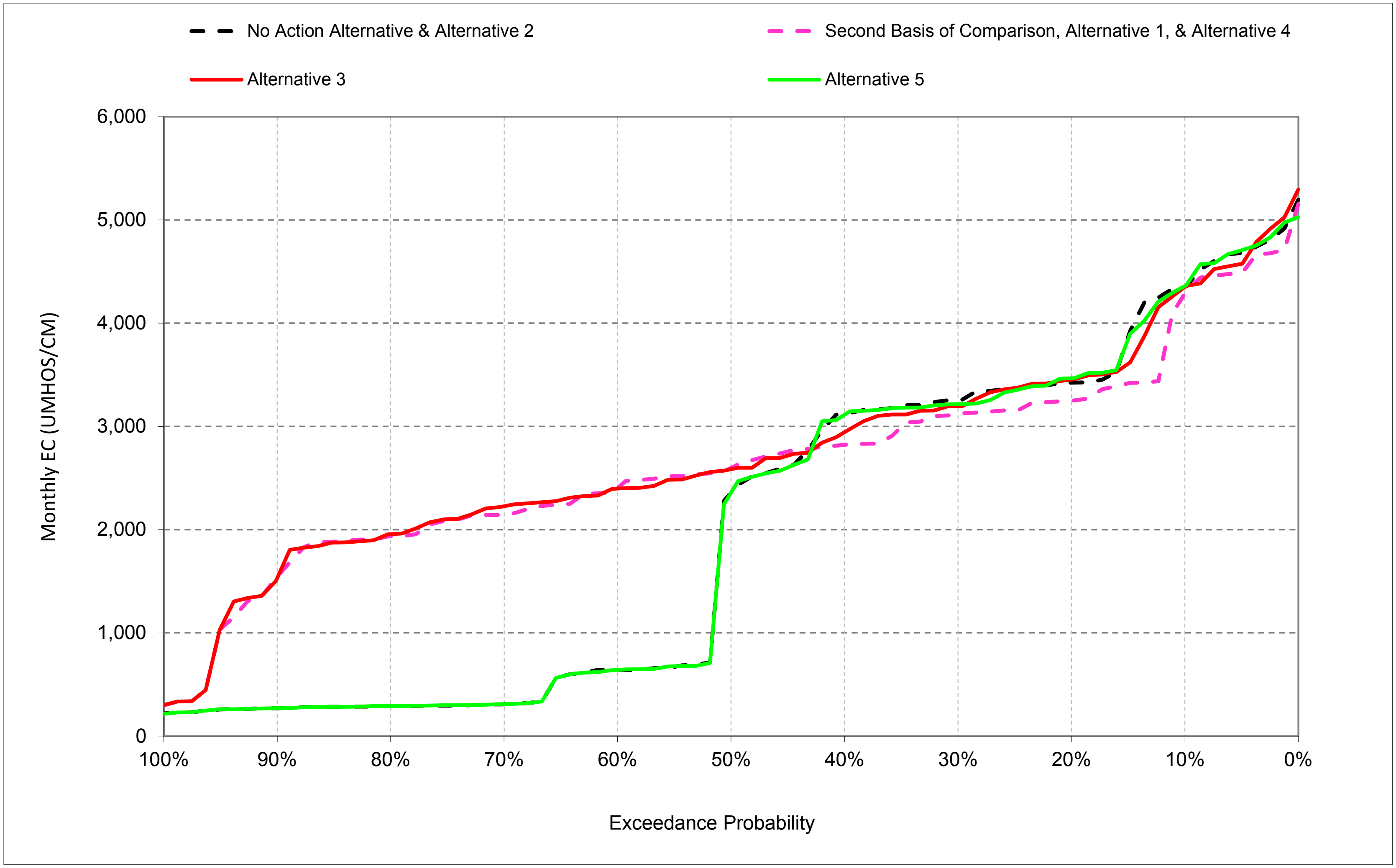
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

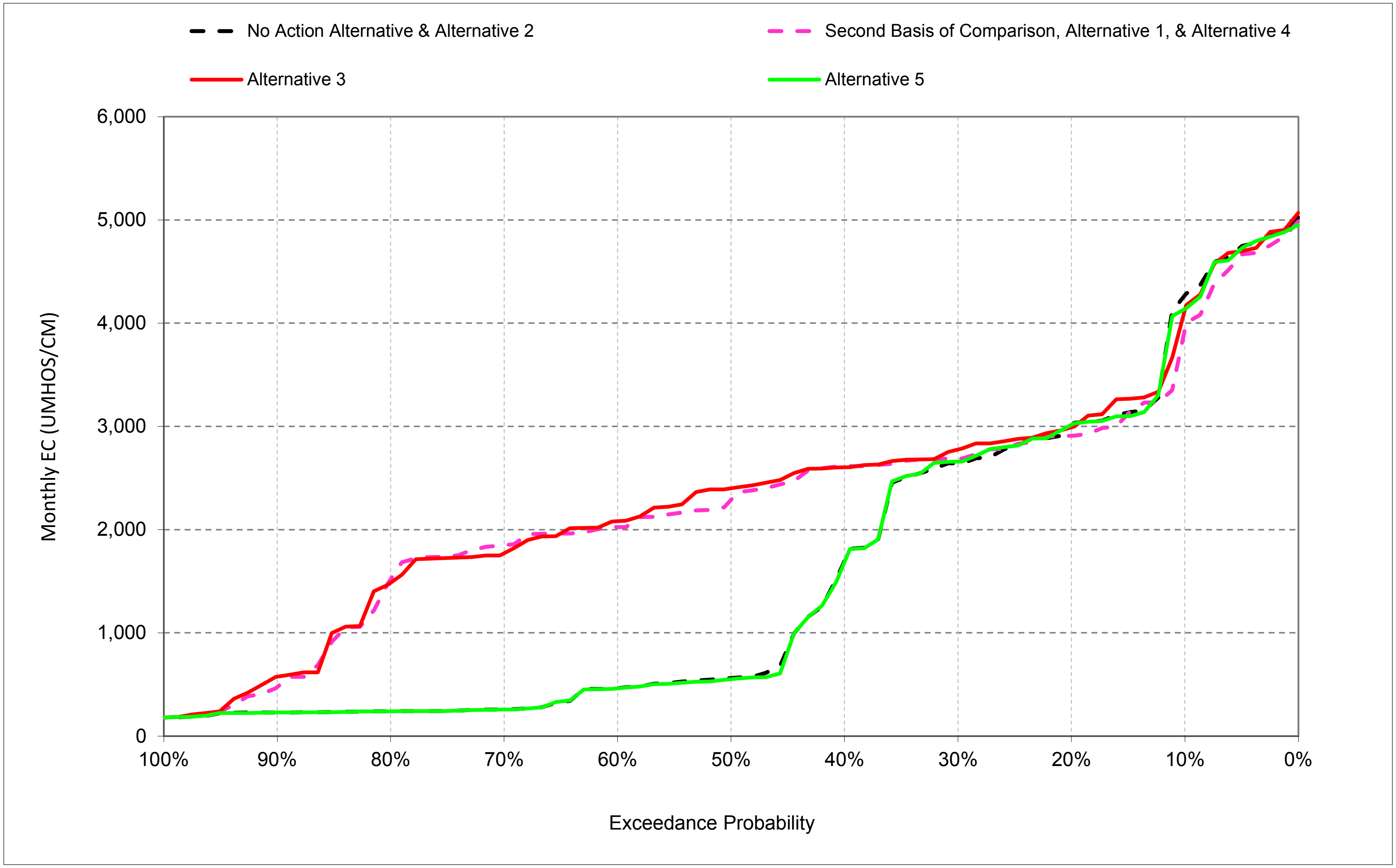
B.2. Sacramento River at Emmaton Salinity

Figure 6E.B.2.1. Sacramento River at Emmaton Salinity, Electrical Conductivity, October



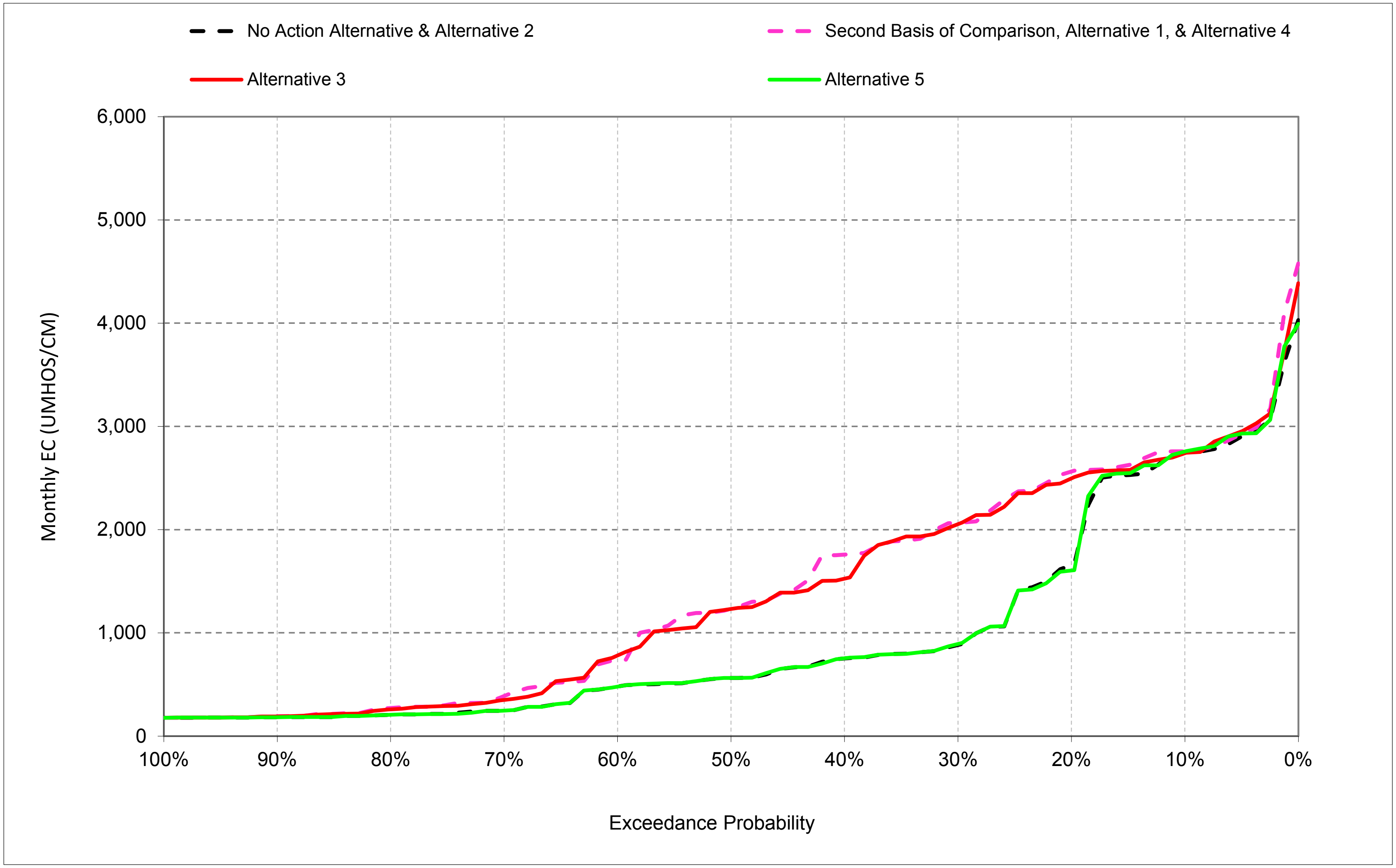
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.2. Sacramento River at Emmaton Salinity, Electrical Conductivity, November



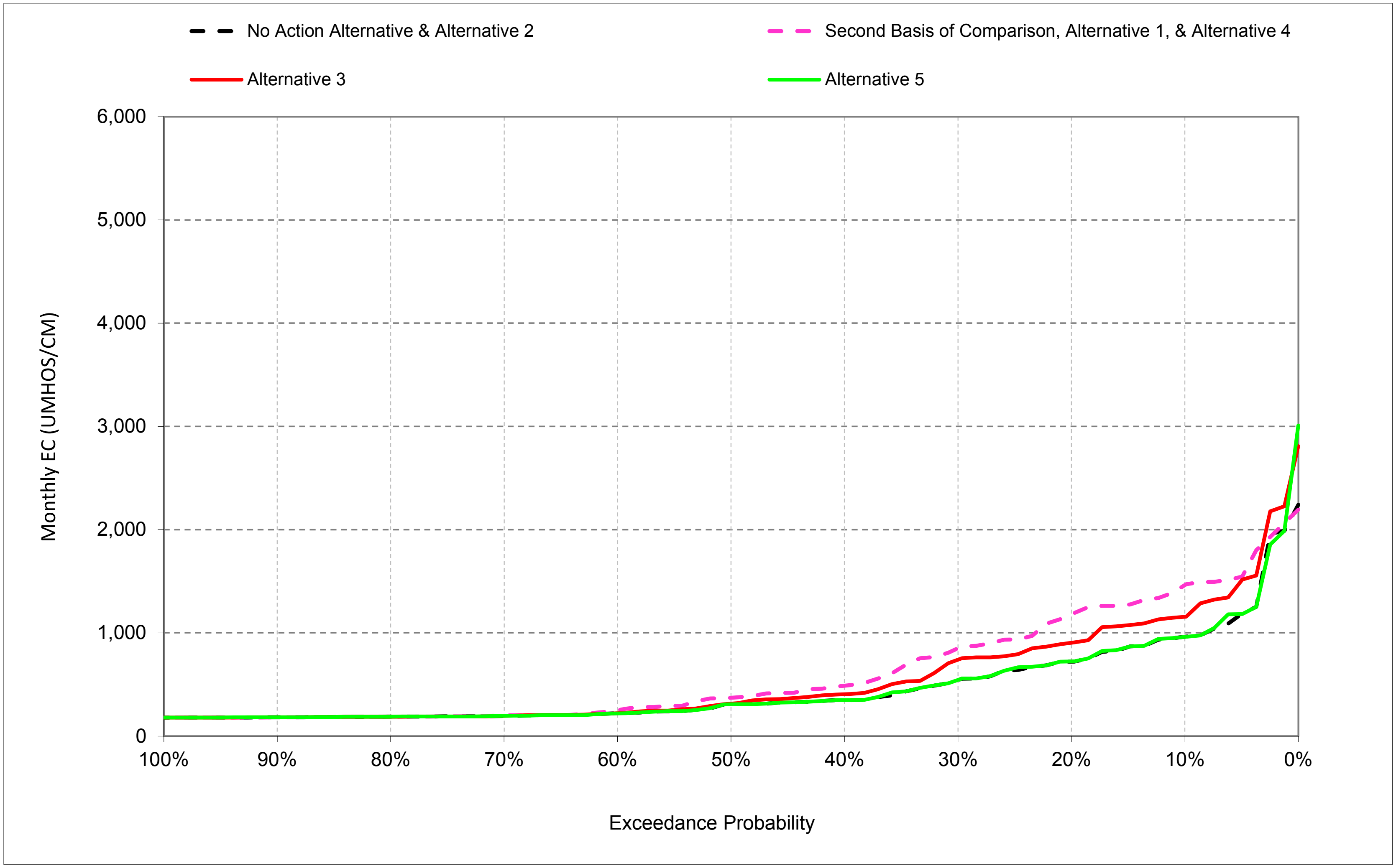
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.3. Sacramento River at Emmaton Salinity, Electrical Conductivity, December



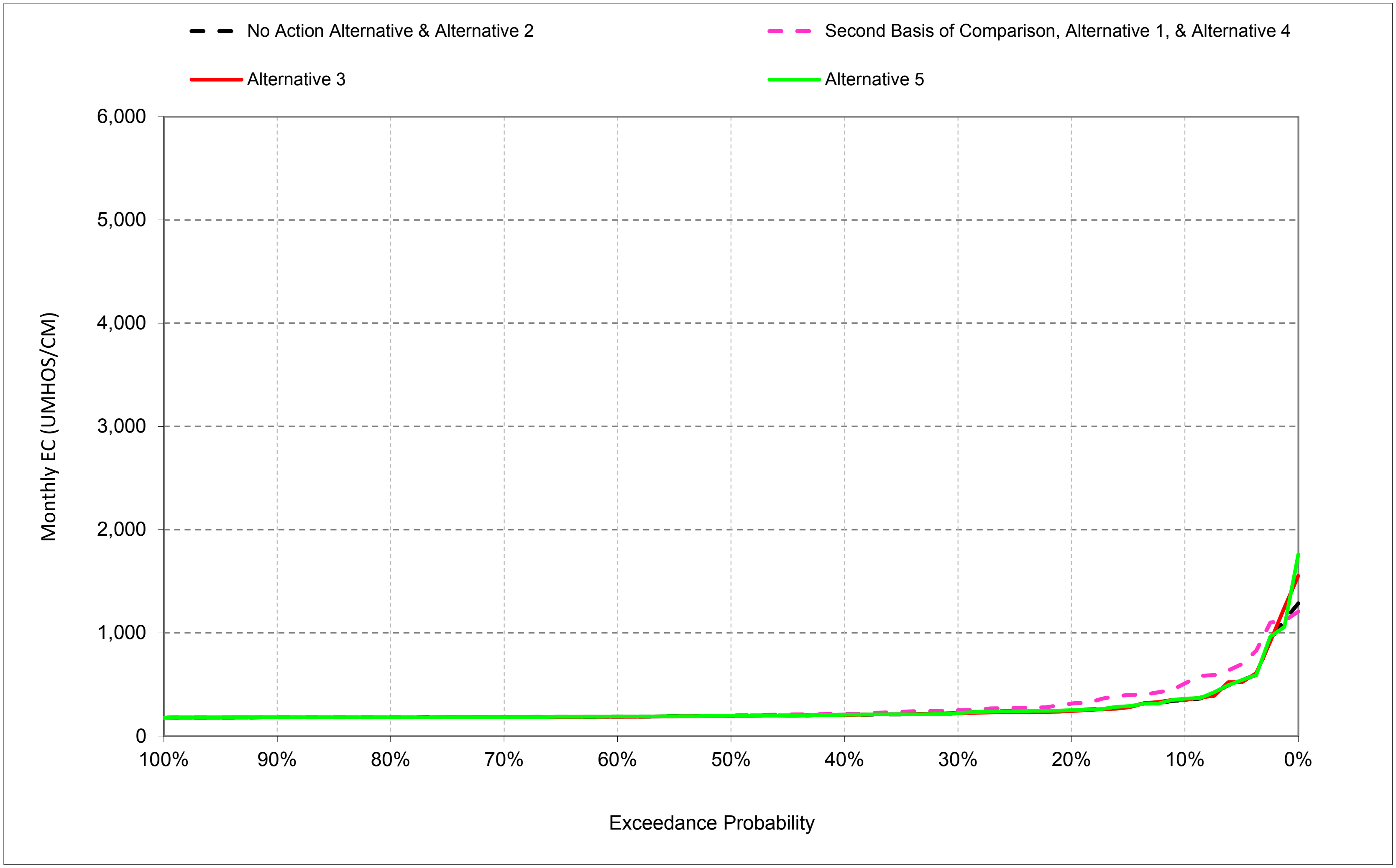
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.4. Sacramento River at Emmaton Salinity, Electrical Conductivity, January



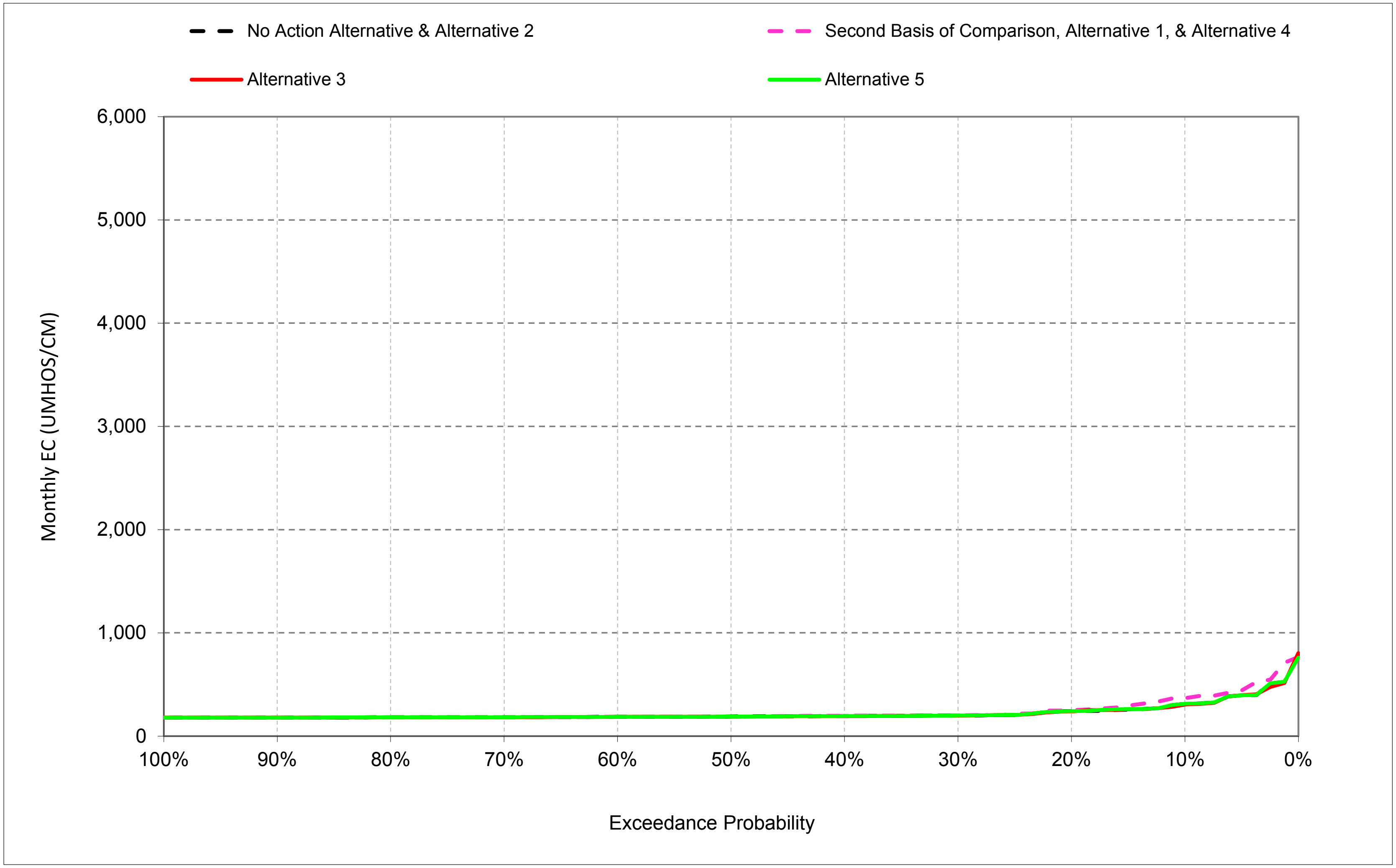
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.5. Sacramento River at Emmaton Salinity, Electrical Conductivity, February



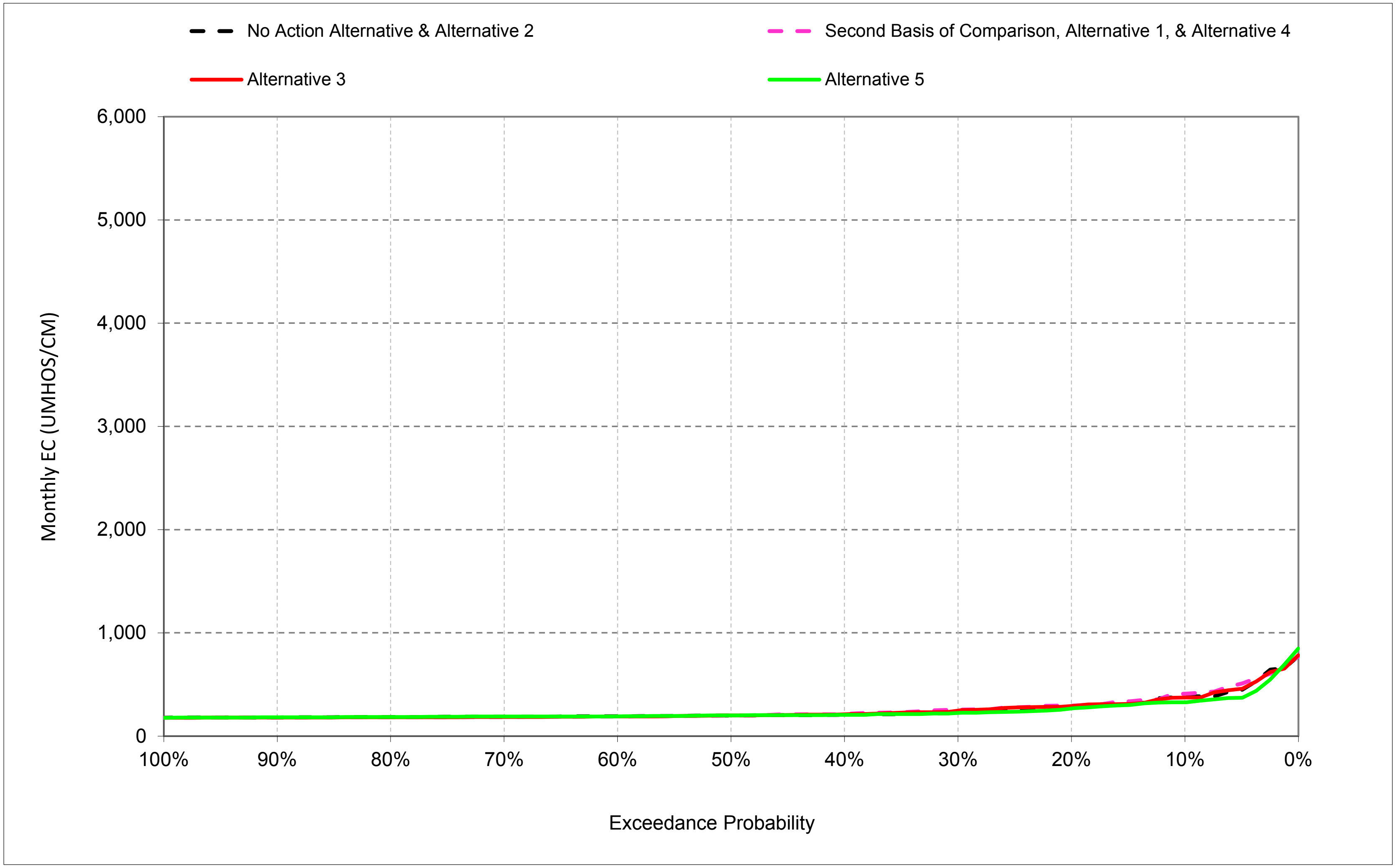
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.6. Sacramento River at Emmaton Salinity, Electrical Conductivity, March



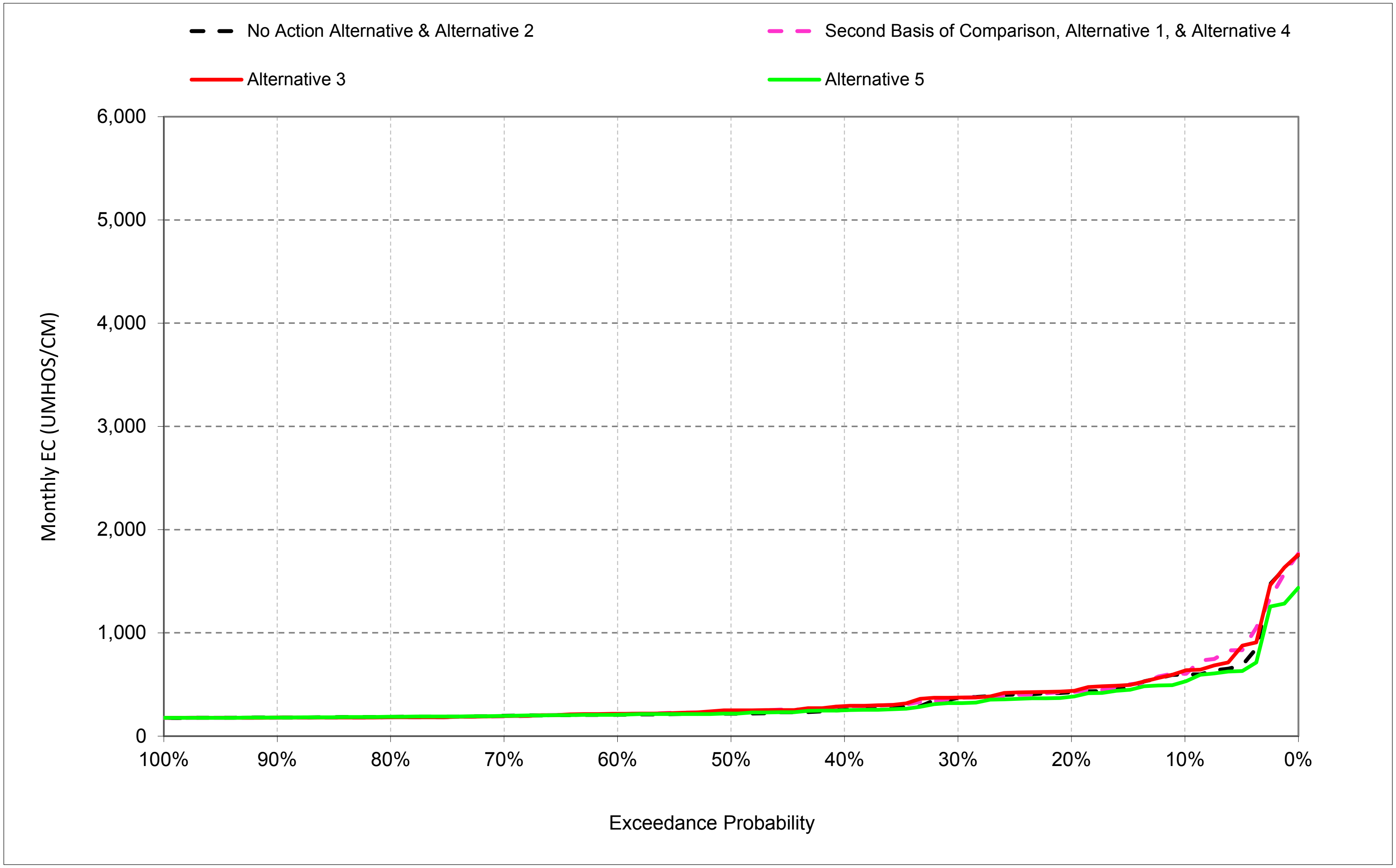
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.7. Sacramento River at Emmaton Salinity, Electrical Conductivity, April



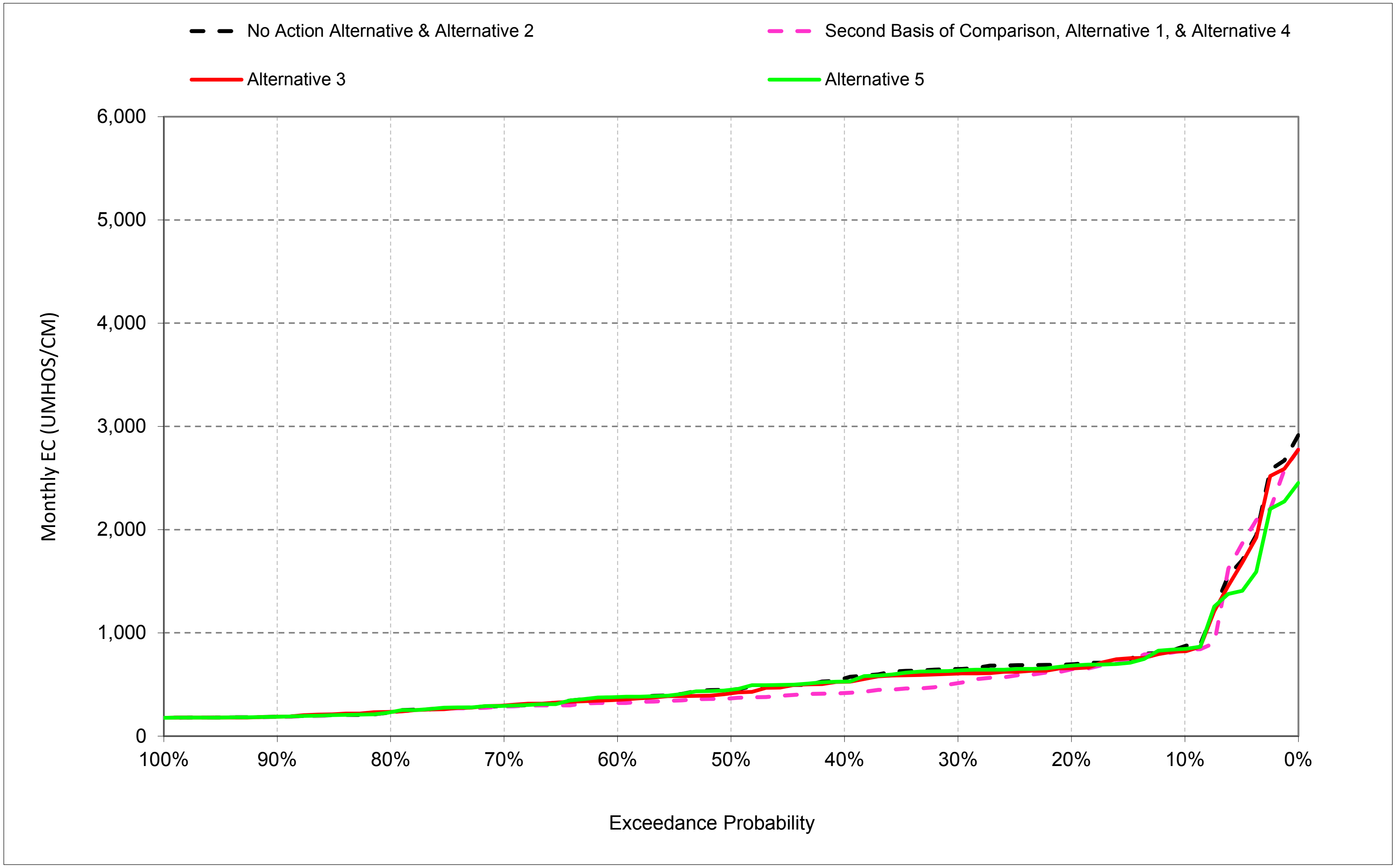
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.8. Sacramento River at Emmaton Salinity, Electrical Conductivity, May



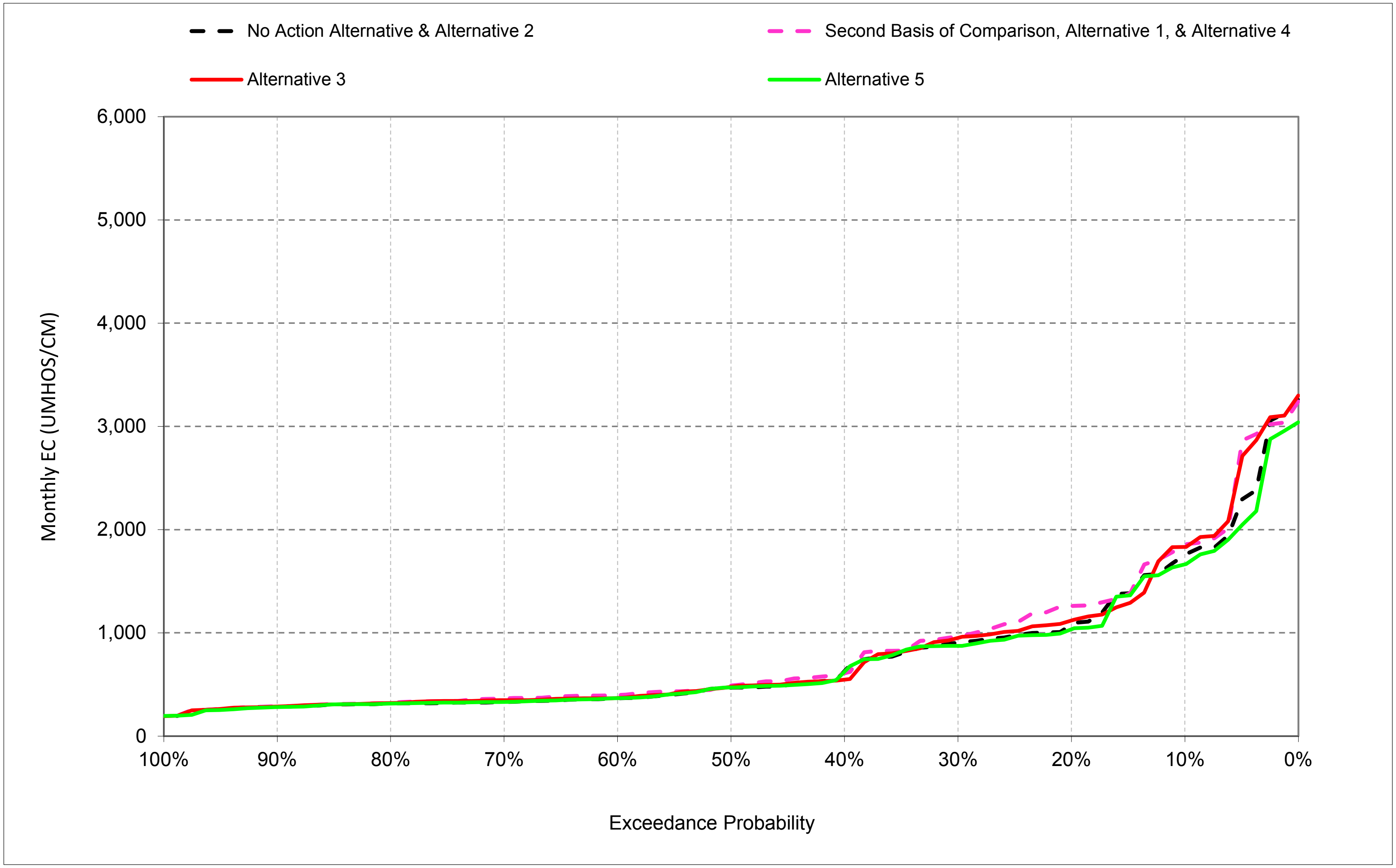
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.9. Sacramento River at Emmaton Salinity, Electrical Conductivity, June



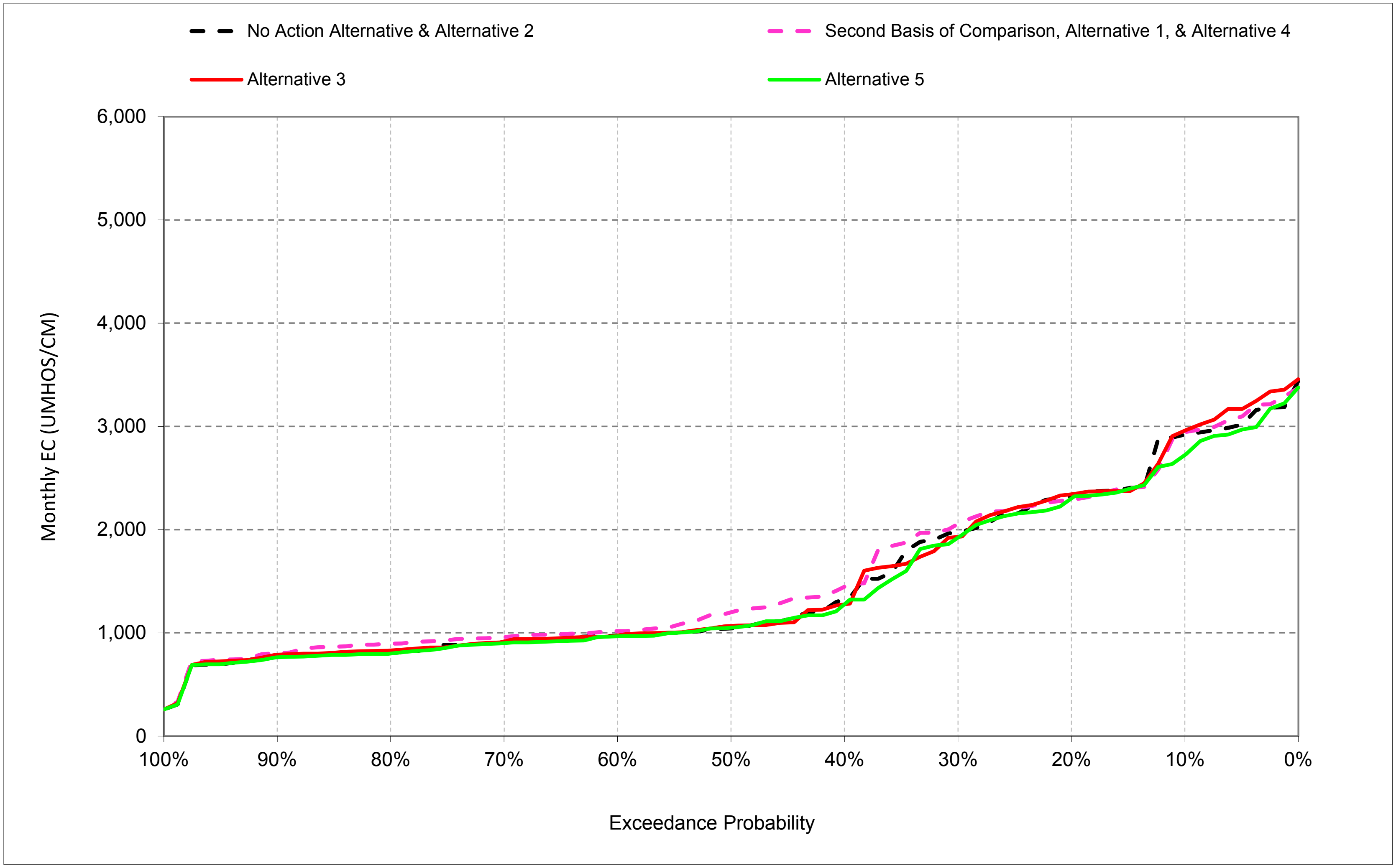
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.10. Sacramento River at Emmaton Salinity, Electrical Conductivity, July



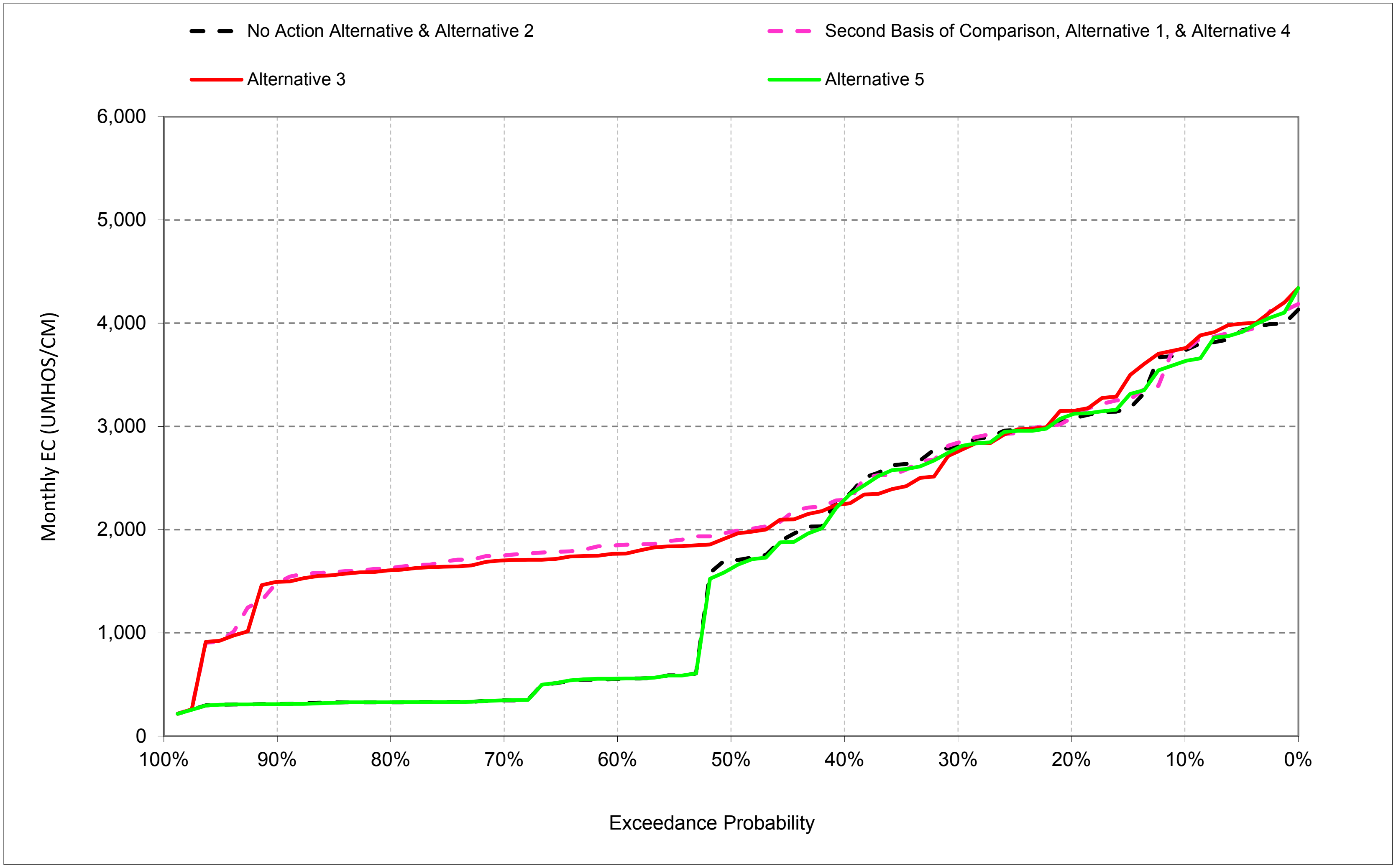
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.11. Sacramento River at Emmaton Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.2.12. Sacramento River at Emmaton Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.2.1. Sacramento River at Emmaton Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	4,353	4,269	2,750	963	348	313	382	596	871	1,756	2,920	3,735
20%	3,424	3,010	1,654	722	247	241	278	424	696	1,081	2,329	3,071
30%	3,256	2,642	883	543	224	199	232	370	650	906	1,977	2,813
40%	3,124	1,695	751	348	206	194	207	252	559	629	1,326	2,325
50%	2,357	562	564	307	196	190	200	217	451	469	1,044	1,702
60%	641	463	480	221	189	187	191	207	375	366	972	554
70%	308	258	247	195	184	183	189	197	292	330	903	347
80%	291	241	207	189	183	182	185	186	231	316	804	329
90%	270	229	182	182	182	181	181	180	188	285	768	313
Long Term												
Full Simulation Period[b]	2,011	1,571	982	473	259	224	246	342	587	779	1,491	1,709
Water Year Types[c]												
Wet (32%)	1,272	761	314	214	184	183	187	192	276	303	845	317
Above Normal (16%)	2,637	1,663	731	271	193	184	192	208	381	354	845	552
Below Normal (13%)	1,347	1,075	895	471	249	224	242	298	547	506	1,096	2,170
Dry (24%)	2,153	1,802	1,332	609	290	222	248	338	604	1,010	2,063	2,766
Critical (15%)	3,304	3,293	2,198	1,024	447	357	436	856	1,491	2,139	2,998	3,789

Alternative 1

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	4,287	3,938	2,758	1,462	511	368	410	605	835	1,851	2,940	3,740
20%	3,250	2,909	2,563	1,181	315	251	296	428	647	1,260	2,289	3,079
30%	3,121	2,689	2,067	852	251	201	255	367	513	966	2,055	2,842
40%	2,822	2,612	1,758	488	216	197	214	288	417	608	1,446	2,287
50%	2,597	2,289	1,235	371	199	189	200	233	367	490	1,199	1,978
60%	2,402	2,026	735	250	188	187	190	212	320	396	1,018	1,849
70%	2,147	1,849	388	201	185	183	185	191	288	365	959	1,749
80%	1,936	1,517	271	188	183	181	182	182	225	321	896	1,630
90%	1,544	474	192	182	182	180	180	179	188	289	803	1,482
Long Term												
Full Simulation Period[b]	2,653	2,272	1,393	621	288	236	255	355	531	834	1,549	2,292
Water Year Types[c]												
Wet (32%)	2,188	1,713	478	235	184	183	187	196	255	320	888	1,513
Above Normal (16%)	2,981	2,205	1,247	362	199	184	192	215	315	368	929	1,744
Below Normal (13%)	2,203	1,754	1,466	813	336	245	256	308	387	537	1,275	2,227
Dry (24%)	2,831	2,625	1,927	865	332	229	259	344	549	1,091	2,089	2,798
Critical (15%)	3,421	3,444	2,575	1,156	494	408	460	914	1,464	2,297	3,001	3,791

Alternative 1 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	-66	-330	9	499	162	56	28	9	-37	95	20	5
20%	-174	-101	909	459	68	9	18	4	-49	180	-40	8
30%	-135	47	1,184	308	28	3	23	-3	-137	60	79	29
40%	-303	918	1,007	140	9	3	8	35	-142	-21	120	-37
50%	240	1,727	671	63	3	-1	0	16	-84	21	155	276
60%	1,761	1,562	255	29	-2	0	-1	5	-54	30	46	1,295
70%	1,839	1,591	141	6	0	0	-4	-5	-5	35	56	1,402
80%	1,646	1,276	64	-1	0	0	-2	-4	-6	5	92	1,301
90%	1,274	245	10	0	0	0	-1	-1	0	4	36	1,169
Long Term												
Full Simulation Period[b]	642	702	410	148	29	12	8	13	-56	55	58	584
Water Year Types[c]												
Wet (32%)	916	952	164	21	0	0	0	4	-22	18	43	1,195
Above Normal (16%)	344	542	515	91	6	0	0	7	-66	14	84	1,192
Below Normal (13%)	856	680	571	342	87	21	14	9	-159	31	179	57
Dry (24%)	678	823	594	256	41	7	12	6	-55	81	27	31
Critical (15%)	116	150	377	132	47	52	24	58	-26	158	3	3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.2.2. Sacramento River at Emmaton Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,353	4,269	2,750	963	348	313	382	596	871	1,756	2,920	3,735
20%	3,424	3,010	1,654	722	247	241	278	424	696	1,081	2,329	3,071
30%	3,256	2,642	883	543	224	199	232	370	650	906	1,977	2,813
40%	3,124	1,695	751	348	206	194	207	252	559	629	1,326	2,325
50%	2,357	562	564	307	196	190	200	217	451	469	1,044	1,702
60%	641	463	480	221	189	187	191	207	375	366	972	554
70%	308	258	247	195	184	183	189	197	292	330	903	347
80%	291	241	207	189	183	182	185	186	231	316	804	329
90%	270	229	182	182	182	181	181	180	188	285	768	313
Long Term												
Full Simulation Period[b]	2,011	1,571	982	473	259	224	246	342	587	779	1,491	1,709
Water Year Types[c]												
Wet (32%)	1,272	761	314	214	184	183	187	192	276	303	845	317
Above Normal (16%)	2,637	1,663	731	271	193	184	192	208	381	354	845	552
Below Normal (13%)	1,347	1,075	895	471	249	224	242	298	547	506	1,096	2,170
Dry (24%)	2,153	1,802	1,332	609	290	222	248	338	604	1,010	2,063	2,766
Critical (15%)	3,304	3,293	2,198	1,024	447	357	436	856	1,491	2,139	2,998	3,789

Alternative 3

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,351	4,124	2,740	1,155	351	305	373	633	821	1,832	2,958	3,758
20%	3,452	2,991	2,496	904	243	239	292	438	656	1,120	2,342	3,150
30%	3,196	2,776	2,053	739	222	198	246	374	605	951	1,930	2,757
40%	2,943	2,604	1,525	405	207	193	211	290	526	548	1,277	2,249
50%	2,584	2,400	1,232	314	195	189	199	249	413	478	1,067	1,938
60%	2,398	2,082	782	222	188	186	190	217	351	370	976	1,765
70%	2,227	1,772	349	196	184	183	186	193	297	348	918	1,702
80%	1,956	1,484	260	187	182	181	182	181	234	321	828	1,606
90%	1,531	575	191	182	182	181	180	179	187	287	790	1,499
Long Term												
Full Simulation Period[b]	2,729	2,324	1,361	557	262	223	249	358	565	806	1,504	2,271
Water Year Types[c]												
Wet (32%)	2,196	1,742	472	225	184	183	186	200	273	312	854	1,516
Above Normal (16%)	3,143	2,217	1,153	305	191	183	192	217	353	359	879	1,730
Below Normal (13%)	2,323	1,808	1,467	634	254	225	248	324	523	504	1,064	1,989
Dry (24%)	2,860	2,688	1,906	737	286	221	252	350	578	1,016	2,073	2,822
Critical (15%)	3,587	3,566	2,509	1,181	477	354	444	895	1,444	2,286	3,046	3,837

Alternative 3 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-2	-145	-10	192	2	-8	-9	37	-50	76	38	23
20%	28	-18	841	182	-5	-2	14	14	-40	40	13	79
30%	-60	134	1,170	196	-1	0	14	4	-45	45	-47	-56
40%	-181	909	774	57	1	-1	5	37	-33	-81	-49	-76
50%	227	1,838	668	7	-1	-1	0	32	-38	9	23	235
60%	1,757	1,618	302	1	-1	-1	-1	10	-24	3	4	1,211
70%	1,919	1,513	103	0	0	0	-3	-4	5	17	15	1,355
80%	1,666	1,243	53	-2	0	0	-3	-4	3	5	24	1,278
90%	1,261	346	9	0	0	0	-1	-1	-1	2	22	1,186
Long Term												
Full Simulation Period[b]	718	753	379	85	3	-1	3	16	-22	26	13	563
Water Year Types[c]												
Wet (32%)	923	981	157	11	0	0	0	8	-4	9	9	1,198
Above Normal (16%)	506	554	422	35	-2	-1	-1	9	-28	5	34	1,177
Below Normal (13%)	976	734	571	162	5	1	6	25	-24	-2	-32	-181
Dry (24%)	707	887	574	128	-4	-2	4	12	-25	6	10	55
Critical (15%)	283	273	311	156	29	-3	7	39	-47	147	48	48

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.2.3. Sacramento River at Emmaton Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,353	4,269	2,750	963	348	313	382	596	871	1,756	2,920	3,735
20%	3,424	3,010	1,654	722	247	241	278	424	696	1,081	2,329	3,071
30%	3,256	2,642	883	543	224	199	232	370	650	906	1,977	2,813
40%	3,124	1,695	751	348	206	194	207	252	559	629	1,326	2,325
50%	2,357	562	564	307	196	190	200	217	451	469	1,044	1,702
60%	641	463	480	221	189	187	191	207	375	366	972	554
70%	308	258	247	195	184	183	189	197	292	330	903	347
80%	291	241	207	189	183	182	185	186	231	316	804	329
90%	270	229	182	182	182	181	181	180	188	285	768	313
Long Term												
Full Simulation Period[b]	2,011	1,571	982	473	259	224	246	342	587	779	1,491	1,709
Water Year Types[c]												
Wet (32%)	1,272	761	314	214	184	183	187	192	276	303	845	317
Above Normal (16%)	2,637	1,663	731	271	193	184	192	208	381	354	845	552
Below Normal (13%)	1,347	1,075	895	471	249	224	242	298	547	506	1,096	2,170
Dry (24%)	2,153	1,802	1,332	609	290	222	248	338	604	1,010	2,063	2,766
Critical (15%)	3,304	3,293	2,198	1,024	447	357	436	856	1,491	2,139	2,998	3,789

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,359	4,137	2,757	961	362	313	326	528	845	1,664	2,721	3,631
20%	3,466	3,015	1,604	723	251	242	267	382	683	1,034	2,303	3,113
30%	3,215	2,659	892	544	223	199	224	319	637	874	1,921	2,792
40%	3,112	1,684	754	348	206	194	206	250	528	623	1,276	2,289
50%	2,357	552	563	307	196	190	200	218	449	470	1,050	1,622
60%	641	463	480	220	189	187	192	207	378	367	966	557
70%	309	258	247	195	185	183	189	197	292	332	901	349
80%	292	240	207	188	183	182	185	187	231	315	800	329
90%	270	228	182	182	182	181	181	180	188	281	762	312
Long Term												
Full Simulation Period[b]	2,004	1,565	987	483	264	224	239	318	555	757	1,457	1,699
Water Year Types[c]												
Wet (32%)	1,271	766	315	214	184	183	187	192	278	300	832	317
Above Normal (16%)	2,611	1,640	723	271	193	184	192	210	382	354	847	555
Below Normal (13%)	1,350	1,079	897	472	249	224	235	286	546	504	1,079	2,118
Dry (24%)	2,153	1,797	1,343	616	292	222	236	324	585	983	2,017	2,758
Critical (15%)	3,288	3,275	2,218	1,082	484	357	412	729	1,305	2,037	2,882	3,781

Alternative 5 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	6	-132	7	-2	14	1	-56	-68	-26	-92	-199	-105
20%	42	6	-51	1	4	0	-11	-43	-13	-46	-27	42
30%	-41	17	10	1	-1	0	-8	-50	-13	-32	-55	-21
40%	-13	-11	2	0	0	0	-1	-2	-30	-6	-50	-36
50%	0	-10	-1	0	0	0	0	1	-2	2	7	-80
60%	0	-1	0	0	0	0	1	0	3	1	-6	3
70%	1	0	0	0	0	0	0	0	0	2	-2	2
80%	1	-1	1	-1	0	0	0	1	0	0	-4	0
90%	0	-1	0	0	0	0	0	0	0	-3	-6	-1
Long Term												
Full Simulation Period[b]	-7	-5	4	10	6	0	-7	-24	-31	-23	-34	-10
Water Year Types[c]												
Wet (32%)	-1	4	0	0	0	0	0	-1	1	-3	-13	0
Above Normal (16%)	-26	-23	-8	0	0	0	0	1	1	0	2	2
Below Normal (13%)	3	5	1	1	0	0	-7	-12	-1	-2	-17	-53
Dry (24%)	0	-4	10	7	2	0	-12	-14	-19	-27	-46	-9
Critical (15%)	-17	-18	20	58	37	1	-25	-127	-186	-102	-116	-7

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.2.4. Sacramento River at Emmaton Salinity, Monthly EC

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	4,287	3,938	2,758	1,462	511	368	410	605	835	1,851	2,940	3,740
20%	3,250	2,909	2,563	1,181	315	251	296	428	647	1,260	2,289	3,079
30%	3,121	2,689	2,067	852	251	201	255	367	513	966	2,055	2,842
40%	2,822	2,612	1,758	488	216	197	214	288	417	608	1,446	2,287
50%	2,597	2,289	1,235	371	199	189	200	233	367	490	1,199	1,978
60%	2,402	2,026	735	250	188	187	190	212	320	396	1,018	1,849
70%	2,147	1,849	388	201	185	183	185	191	288	365	959	1,749
80%	1,936	1,517	271	188	183	181	182	182	225	321	896	1,630
90%	1,544	474	192	182	182	180	180	179	188	289	803	1,482
Long Term												
Full Simulation Period[b]	2,653	2,272	1,393	621	288	236	255	355	531	834	1,549	2,292
Water Year Types[c]												
Wet (32%)	2,188	1,713	478	235	184	183	187	196	255	320	888	1,513
Above Normal (16%)	2,981	2,205	1,247	362	199	184	192	215	315	368	929	1,744
Below Normal (13%)	2,203	1,754	1,466	813	336	245	256	308	387	537	1,275	2,227
Dry (24%)	2,831	2,625	1,927	865	332	229	259	344	549	1,091	2,089	2,798
Critical (15%)	3,421	3,444	2,575	1,156	494	408	460	914	1,464	2,297	3,001	3,791

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	4,353	4,269	2,750	963	348	313	382	596	871	1,756	2,920	3,735
20%	3,424	3,010	1,654	722	247	241	278	424	696	1,081	2,329	3,071
30%	3,256	2,642	883	543	224	199	232	370	650	906	1,977	2,813
40%	3,124	1,695	751	348	206	194	207	252	559	629	1,326	2,325
50%	2,357	562	564	307	196	190	200	217	451	469	1,044	1,702
60%	641	463	480	221	189	187	191	207	375	366	972	554
70%	308	258	247	195	184	183	189	197	292	330	903	347
80%	291	241	207	189	183	182	185	186	231	316	804	329
90%	270	229	182	182	182	181	181	180	188	285	768	313
Long Term												
Full Simulation Period[b]	2,011	1,571	982	473	259	224	246	342	587	779	1,491	1,709
Water Year Types[c]												
Wet (32%)	1,272	761	314	214	184	183	187	192	276	303	845	317
Above Normal (16%)	2,637	1,663	731	271	193	184	192	208	381	354	845	552
Below Normal (13%)	1,347	1,075	895	471	249	224	242	298	547	506	1,096	2,170
Dry (24%)	2,153	1,802	1,332	609	290	222	248	338	604	1,010	2,063	2,766
Critical (15%)	3,304	3,293	2,198	1,024	447	357	436	856	1,491	2,139	2,998	3,789

No Action Alternative minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	66	330	-9	-499	-162	-56	-28	-9	37	-95	-20	-5
20%	174	101	-909	-459	-68	-9	-18	-4	49	-180	40	-8
30%	135	-47	-1,184	-308	-28	-3	-23	3	137	-60	-79	-29
40%	303	-918	-1,007	-140	-9	-3	-8	-35	142	21	-120	37
50%	-240	-1,727	-671	-63	-3	1	0	-16	84	-21	-155	-276
60%	-1,761	-1,562	-255	-29	2	0	1	-5	54	-30	-46	-1,295
70%	-1,839	-1,591	-141	-6	0	0	4	5	5	-35	-56	-1,402
80%	-1,646	-1,276	-64	1	0	0	2	4	6	-5	-92	-1,301
90%	-1,274	-245	-10	0	0	0	1	1	0	-4	-36	-1,169
Long Term												
Full Simulation Period[b]	-642	-702	-410	-148	-29	-12	-8	-13	56	-55	-58	-584
Water Year Types[c]												
Wet (32%)	-916	-952	-164	-21	0	0	0	-4	22	-18	-43	-1,195
Above Normal (16%)	-344	-542	-515	-91	-6	0	0	-7	66	-14	-84	-1,192
Below Normal (13%)	-856	-680	-571	-342	-87	-21	-14	-9	159	-31	-179	-57
Dry (24%)	-678	-823	-594	-256	-41	-7	-12	-6	55	-81	-27	-31
Critical (15%)	-116	-150	-377	-132	-47	-52	-24	-58	26	-158	-3	-3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.2.5. Sacramento River at Emmaton Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,287	3,938	2,758	1,462	511	368	410	605	835	1,851	2,940	3,740
20%	3,250	2,909	2,563	1,181	315	251	296	428	647	1,260	2,289	3,079
30%	3,121	2,689	2,067	852	251	201	255	367	513	966	2,055	2,842
40%	2,822	2,612	1,758	488	216	197	214	288	417	608	1,446	2,287
50%	2,597	2,289	1,235	371	199	189	200	233	367	490	1,199	1,978
60%	2,402	2,026	735	250	188	187	190	212	320	396	1,018	1,849
70%	2,147	1,849	388	201	185	183	185	191	288	365	959	1,749
80%	1,936	1,517	271	188	183	181	182	182	225	321	896	1,630
90%	1,544	474	192	182	182	180	180	179	188	289	803	1,482
Long Term												
Full Simulation Period[b]	2,653	2,272	1,393	621	288	236	255	355	531	834	1,549	2,292
Water Year Types[c]												
Wet (32%)	2,188	1,713	478	235	184	183	187	196	255	320	888	1,513
Above Normal (16%)	2,981	2,205	1,247	362	199	184	192	215	315	368	929	1,744
Below Normal (13%)	2,203	1,754	1,466	813	336	245	256	308	387	537	1,275	2,227
Dry (24%)	2,831	2,625	1,927	865	332	229	259	344	549	1,091	2,089	2,798
Critical (15%)	3,421	3,444	2,575	1,156	494	408	460	914	1,464	2,297	3,001	3,791

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,351	4,124	2,740	1,155	351	305	373	633	821	1,832	2,958	3,758
20%	3,452	2,991	2,496	904	243	239	292	438	656	1,120	2,342	3,150
30%	3,196	2,776	2,053	739	222	198	246	374	605	951	1,930	2,757
40%	2,943	2,604	1,525	405	207	193	211	290	526	548	1,277	2,249
50%	2,584	2,400	1,232	314	195	189	199	249	413	478	1,067	1,938
60%	2,398	2,082	782	222	188	186	190	217	351	370	976	1,765
70%	2,227	1,772	349	196	184	183	186	193	297	348	918	1,702
80%	1,956	1,484	260	187	182	181	182	181	234	321	828	1,606
90%	1,531	575	191	182	182	181	180	179	187	287	790	1,499
Long Term												
Full Simulation Period[b]	2,729	2,324	1,361	557	262	223	249	358	565	806	1,504	2,271
Water Year Types[c]												
Wet (32%)	2,196	1,742	472	225	184	183	186	200	273	312	854	1,516
Above Normal (16%)	3,143	2,217	1,153	305	191	183	192	217	353	359	879	1,730
Below Normal (13%)	2,323	1,808	1,467	634	254	225	248	324	523	504	1,064	1,989
Dry (24%)	2,860	2,688	1,906	737	286	221	252	350	578	1,016	2,073	2,822
Critical (15%)	3,587	3,566	2,509	1,181	477	354	444	895	1,444	2,286	3,046	3,837

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	64	185	-19	-307	-160	-63	-36	28	-13	-19	18	18
20%	202	82	-67	-276	-72	-12	-4	10	9	-140	53	71
30%	75	86	-14	-112	-29	-3	-8	7	92	-16	-125	-85
40%	122	-9	-234	-83	-9	-4	-3	2	109	-61	-169	-39
50%	-13	111	-3	-56	-4	-1	0	16	47	-11	-132	-41
60%	-4	56	47	-28	0	0	0	5	30	-27	-42	-84
70%	80	-77	-38	-6	0	0	0	2	9	-17	-41	-47
80%	20	-33	-11	0	0	0	0	0	9	0	-68	-23
90%	-13	100	-1	0	0	0	0	0	-1	-2	-13	17
Long Term												
Full Simulation Period[b]	75	52	-31	-64	-26	-13	-6	3	34	-28	-44	-21
Water Year Types[c]												
Wet (32%)	7	29	-7	-10	0	0	0	4	18	-9	-34	3
Above Normal (16%)	162	12	-93	-56	-8	0	0	2	37	-9	-50	-14
Below Normal (13%)	120	54	1	-179	-82	-20	-8	16	135	-33	-211	-238
Dry (24%)	29	64	-20	-128	-46	-9	-7	6	29	-75	-16	24
Critical (15%)	166	122	-66	25	-17	-54	-17	-18	-20	-11	44	45

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.2.6. Sacramento River at Emmaton Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,287	3,938	2,758	1,462	511	368	410	605	835	1,851	2,940	3,740
20%	3,250	2,909	2,563	1,181	315	251	296	428	647	1,260	2,289	3,079
30%	3,121	2,689	2,067	852	251	201	255	367	513	966	2,055	2,842
40%	2,822	2,612	1,758	488	216	197	214	288	417	608	1,446	2,287
50%	2,597	2,289	1,235	371	199	189	200	233	367	490	1,199	1,978
60%	2,402	2,026	735	250	188	187	190	212	320	396	1,018	1,849
70%	2,147	1,849	388	201	185	183	185	191	288	365	959	1,749
80%	1,936	1,517	271	188	183	181	182	182	225	321	896	1,630
90%	1,544	474	192	182	182	180	180	179	188	289	803	1,482
Long Term												
Full Simulation Period[b]	2,653	2,272	1,393	621	288	236	255	355	531	834	1,549	2,292
Water Year Types[c]												
Wet (32%)	2,188	1,713	478	235	184	183	187	196	255	320	888	1,513
Above Normal (16%)	2,981	2,205	1,247	362	199	184	192	215	315	368	929	1,744
Below Normal (13%)	2,203	1,754	1,466	813	336	245	256	308	387	537	1,275	2,227
Dry (24%)	2,831	2,625	1,927	865	332	229	259	344	549	1,091	2,089	2,798
Critical (15%)	3,421	3,444	2,575	1,156	494	408	460	914	1,464	2,297	3,001	3,791

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,359	4,137	2,757	961	362	313	326	528	845	1,664	2,721	3,631
20%	3,466	3,015	1,604	723	251	242	267	382	683	1,034	2,303	3,113
30%	3,215	2,659	892	544	223	199	224	319	637	874	1,921	2,792
40%	3,112	1,684	754	348	206	194	206	250	528	623	1,276	2,289
50%	2,357	552	563	307	196	190	200	218	449	470	1,050	1,622
60%	641	463	480	220	189	187	192	207	378	367	966	557
70%	309	258	247	195	185	183	189	197	292	332	901	349
80%	292	240	207	188	183	182	185	187	231	315	800	329
90%	270	228	182	182	182	181	181	180	188	281	762	312
Long Term												
Full Simulation Period[b]	2,004	1,565	987	483	264	224	239	318	555	757	1,457	1,699
Water Year Types[c]												
Wet (32%)	1,271	766	315	214	184	183	187	192	278	300	832	317
Above Normal (16%)	2,611	1,640	723	271	193	184	192	210	382	354	847	555
Below Normal (13%)	1,350	1,079	897	472	249	224	235	286	546	504	1,079	2,118
Dry (24%)	2,153	1,797	1,343	616	292	222	236	324	585	983	2,017	2,758
Critical (15%)	3,288	3,275	2,218	1,082	484	357	412	729	1,305	2,037	2,882	3,781

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	72	198	-1	-501	-149	-55	-84	-76	11	-187	-219	-110
20%	216	106	-959	-457	-64	-9	-29	-46	36	-226	14	34
30%	94	-30	-1,175	-308	-28	-2	-31	-48	124	-92	-134	-50
40%	290	-929	-1,005	-140	-9	-3	-8	-37	112	15	-170	1
50%	-240	-1,738	-671	-63	-3	1	0	-14	83	-19	-148	-356
60%	-1,761	-1,563	-255	-30	2	0	2	-4	58	-29	-51	-1,292
70%	-1,838	-1,591	-141	-6	0	0	4	6	5	-33	-58	-1,400
80%	-1,644	-1,277	-64	0	0	0	3	5	6	-5	-96	-1,301
90%	-1,274	-247	-10	0	0	0	1	1	0	-8	-41	-1,170
Long Term												
Full Simulation Period[b]	-649	-707	-406	-138	-24	-12	-15	-37	24	-77	-92	-593
Water Year Types[c]												
Wet (32%)	-917	-948	-163	-21	0	0	0	-5	23	-20	-56	-1,196
Above Normal (16%)	-370	-565	-523	-91	-6	0	1	-5	67	-14	-82	-1,189
Below Normal (13%)	-853	-675	-569	-341	-87	-21	-21	-22	158	-33	-196	-110
Dry (24%)	-678	-827	-584	-249	-39	-7	-23	-20	36	-108	-73	-40
Critical (15%)	-133	-168	-357	-74	-10	-51	-49	-185	-159	-260	-120	-10

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

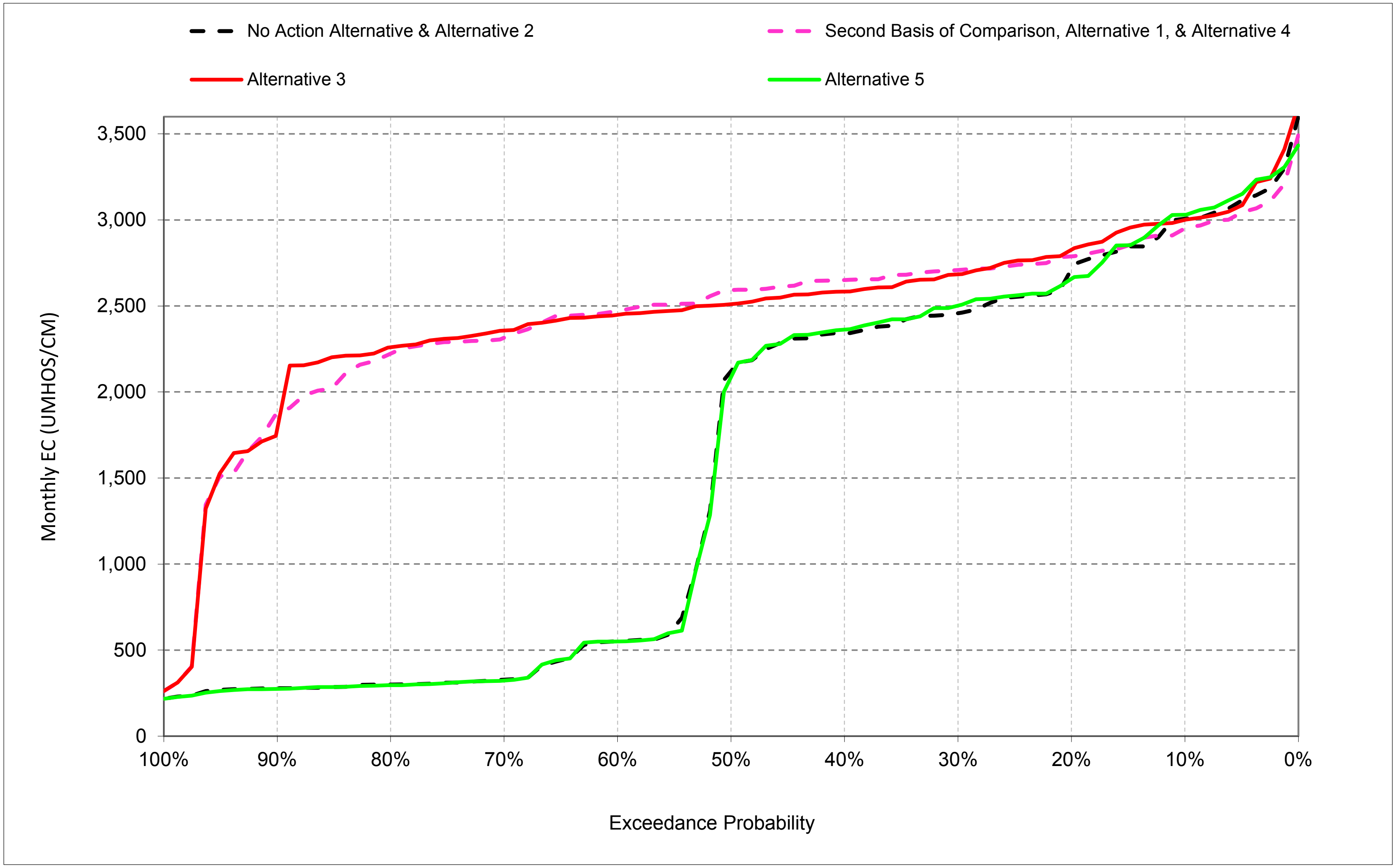
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

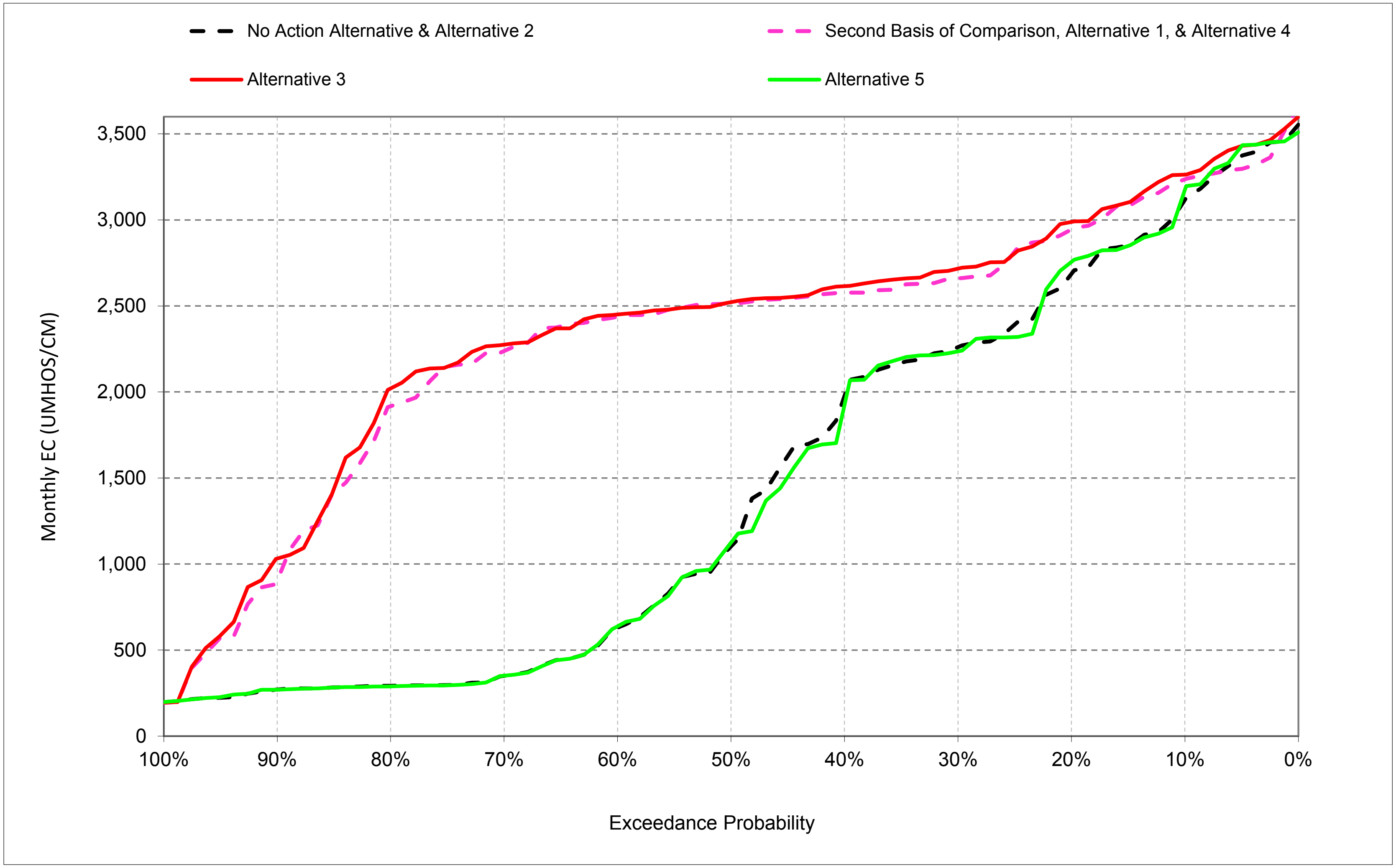
B.3. San Joaquin River at Jersey Point Salinity

Figure 6E.B.3.1. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, October



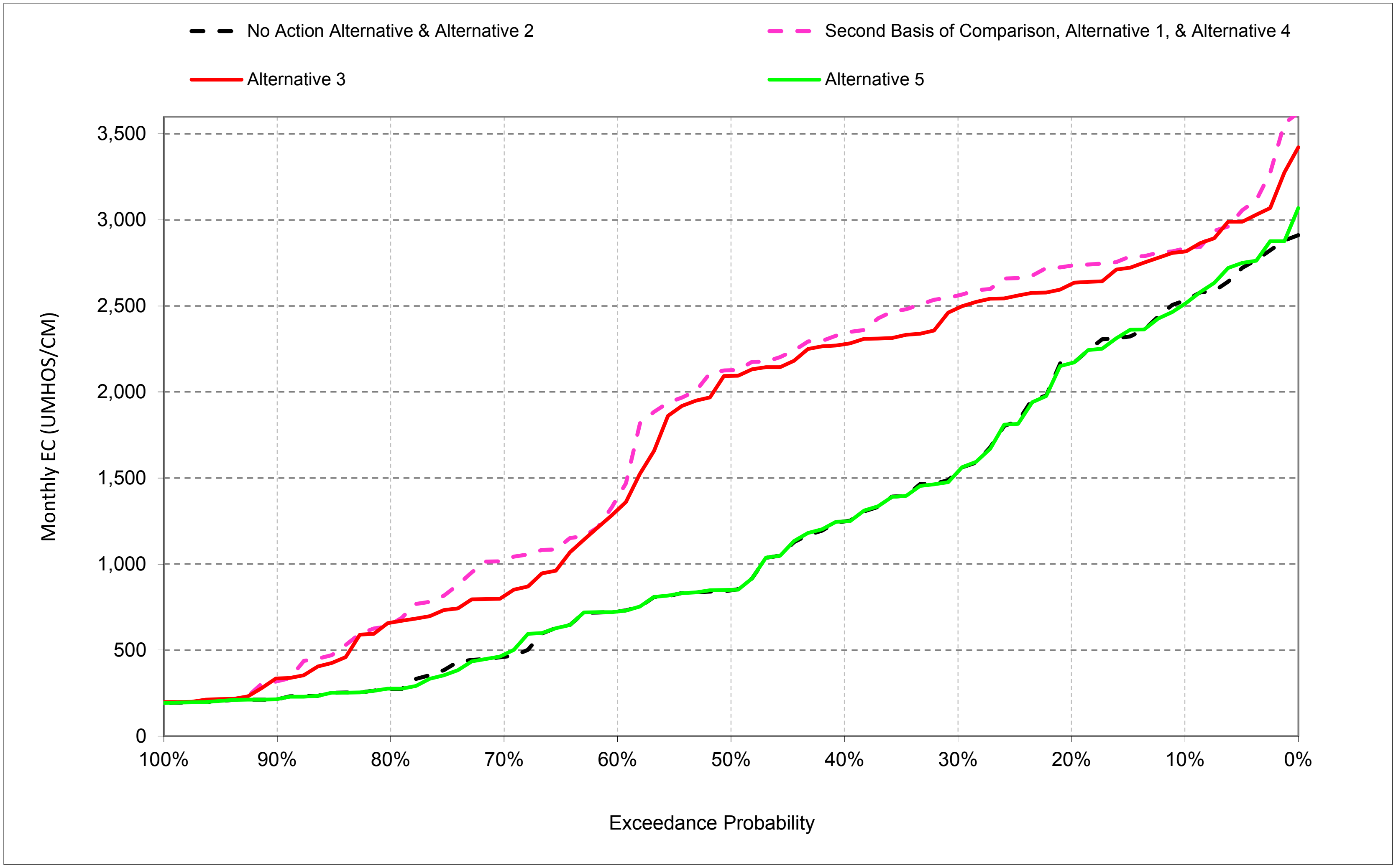
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.2. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, November



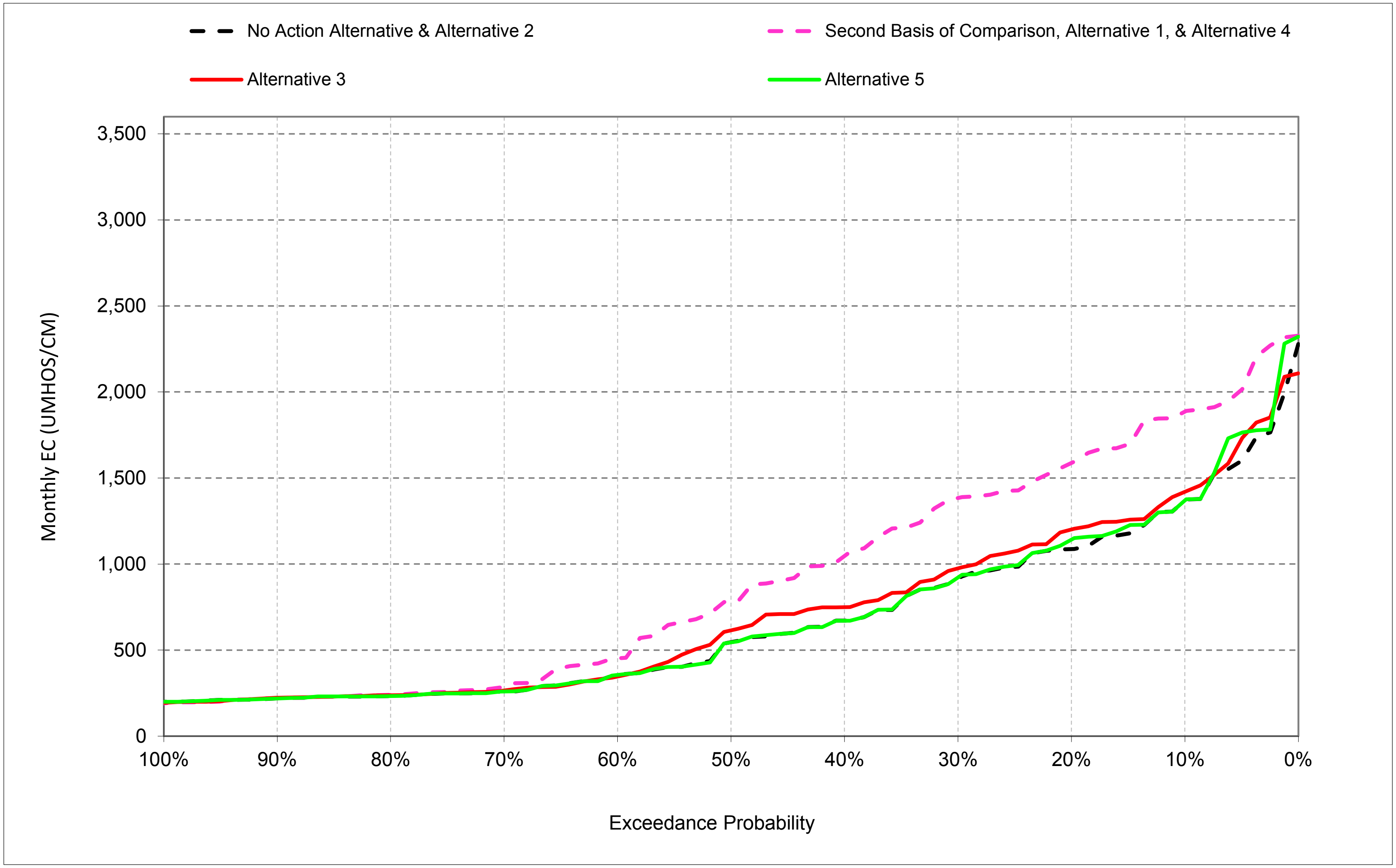
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.3. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, December



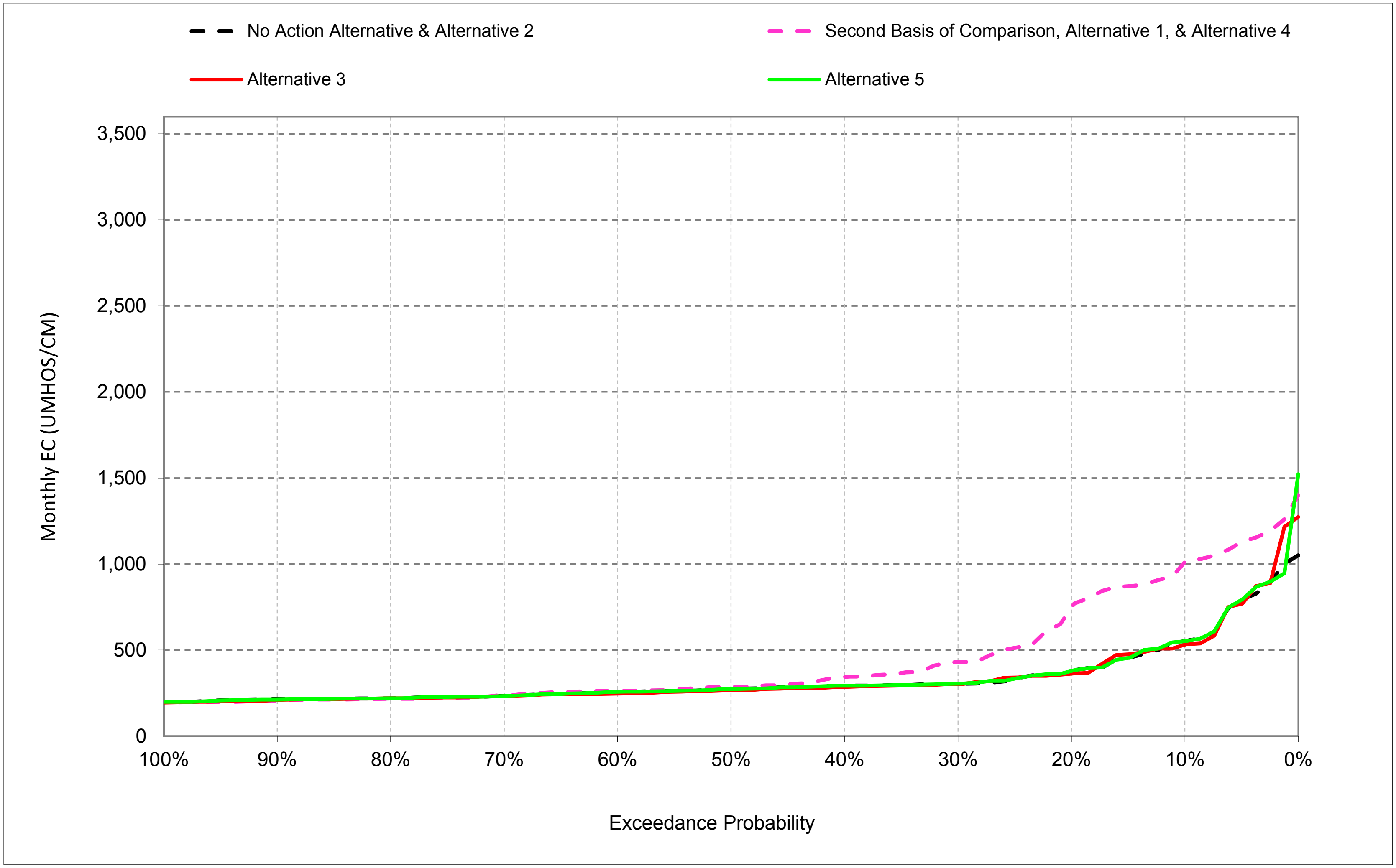
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.4. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, January



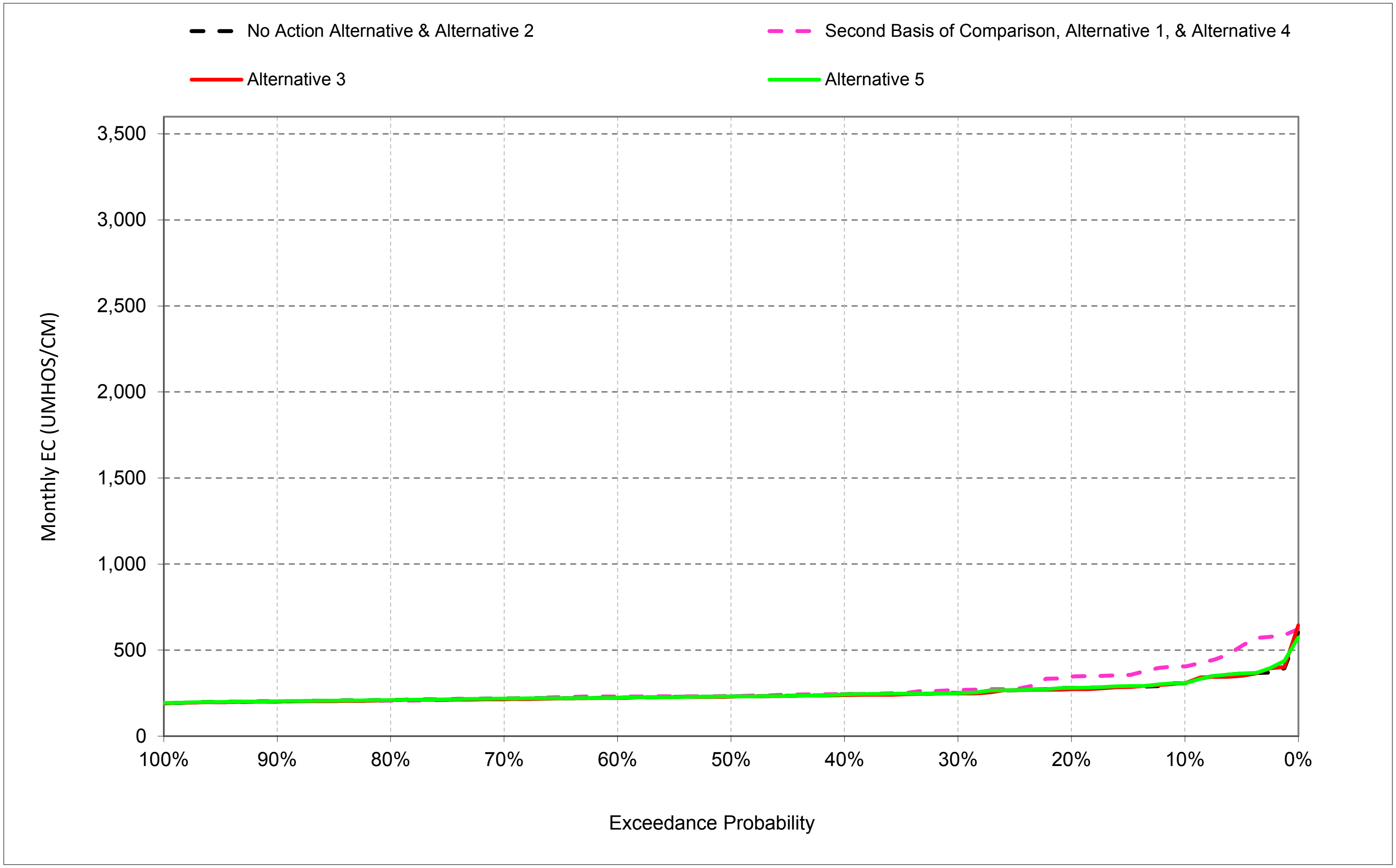
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.5. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, February



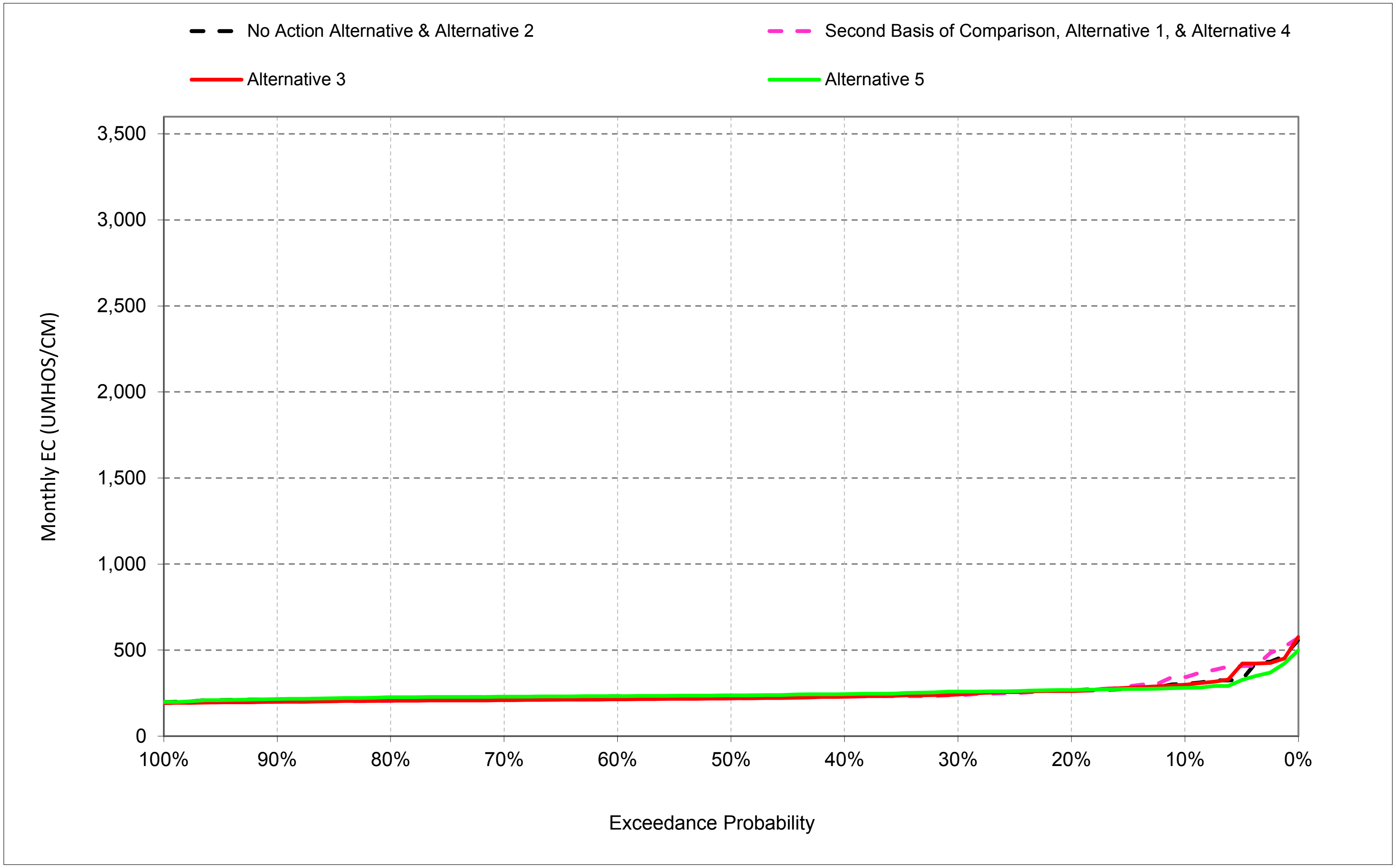
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.6. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, March



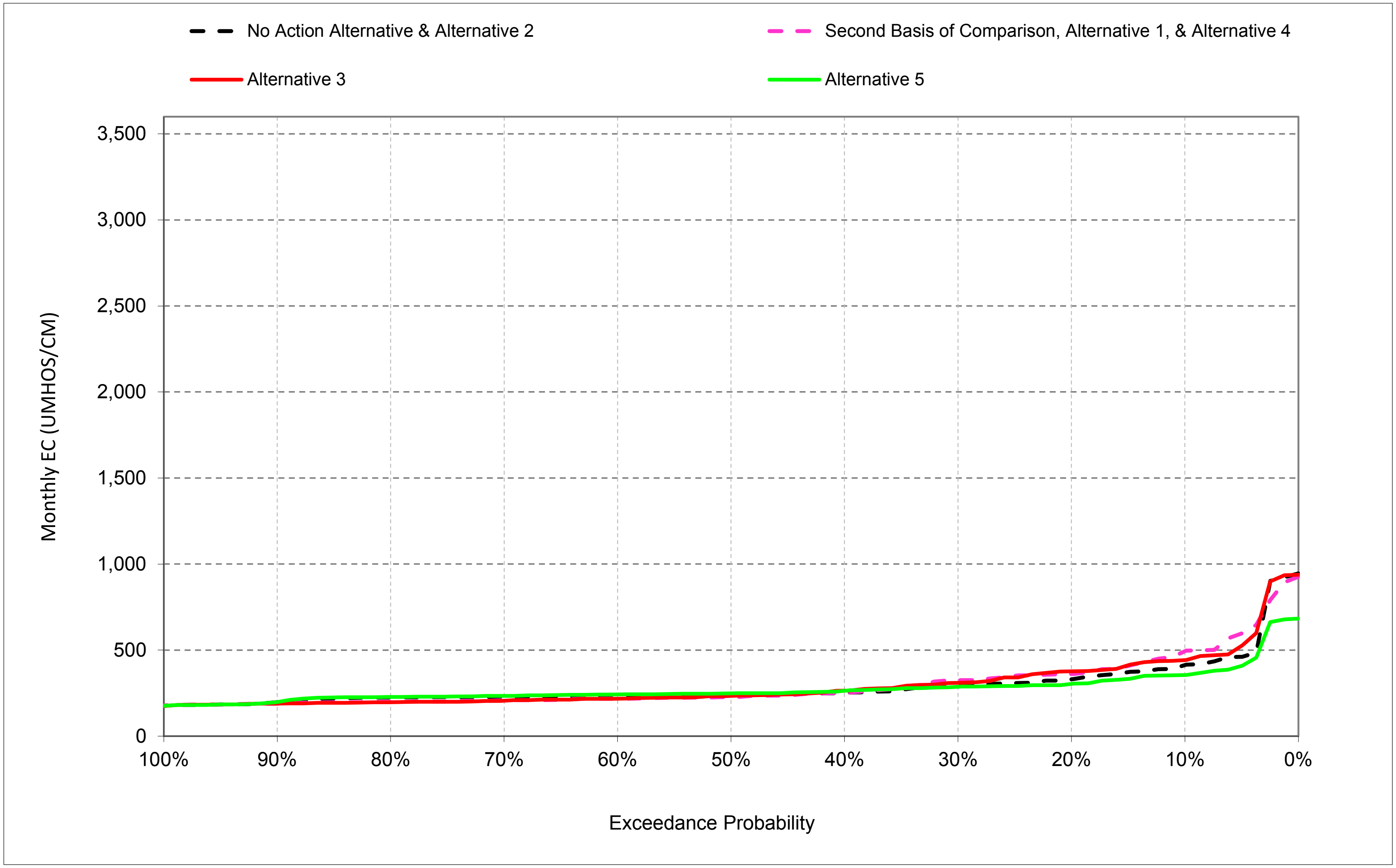
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.7. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, April



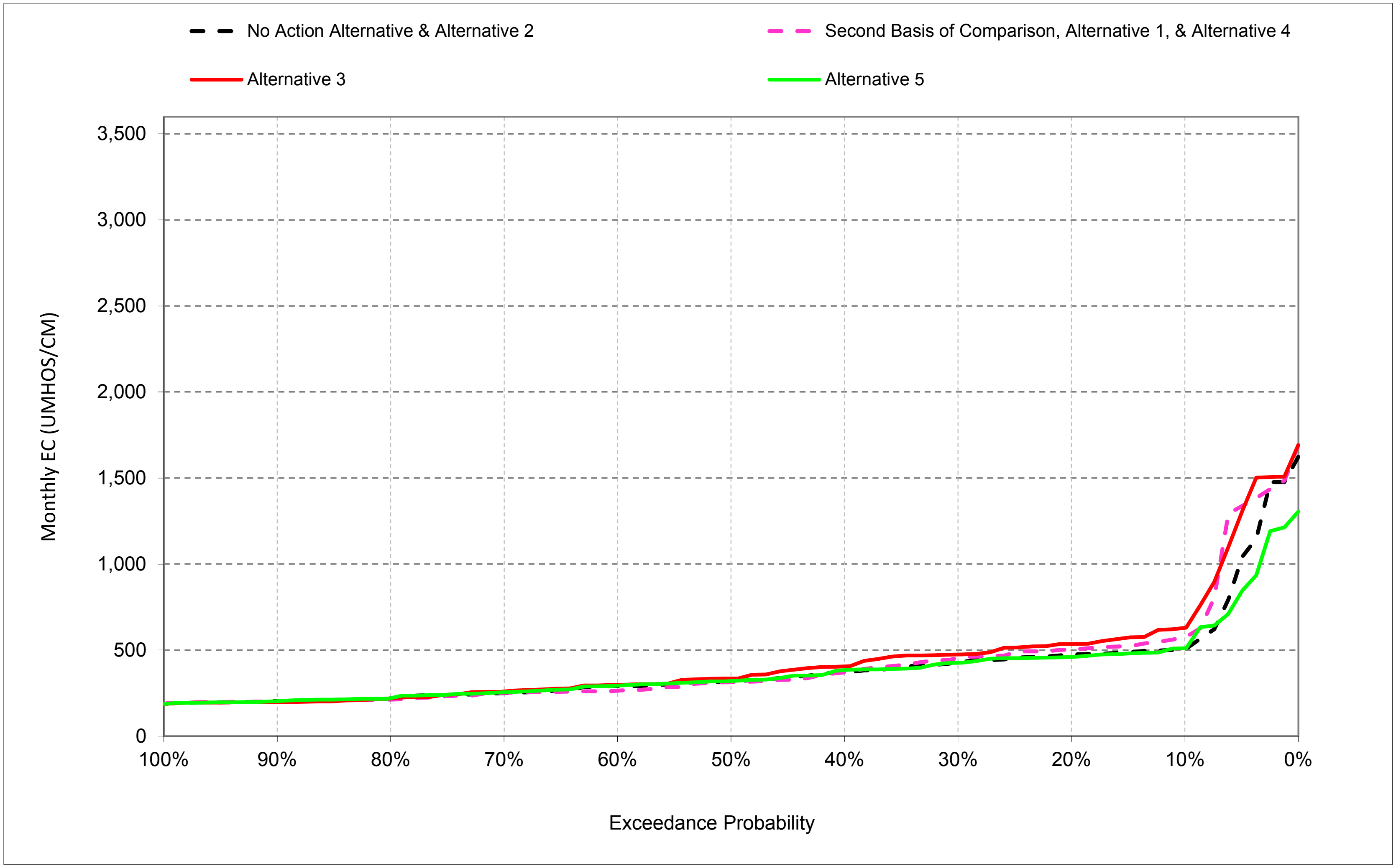
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.8. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, May



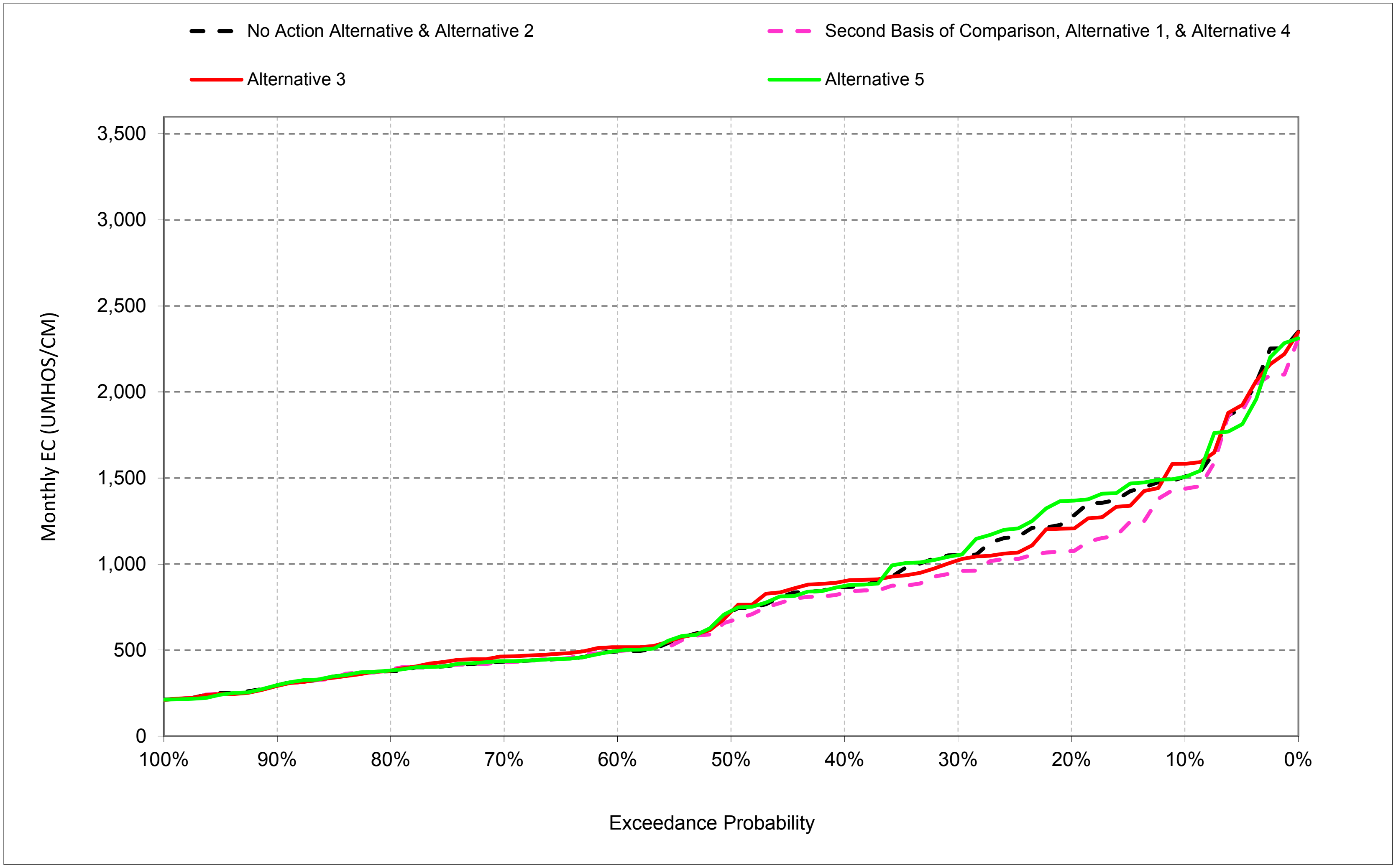
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.9. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, June



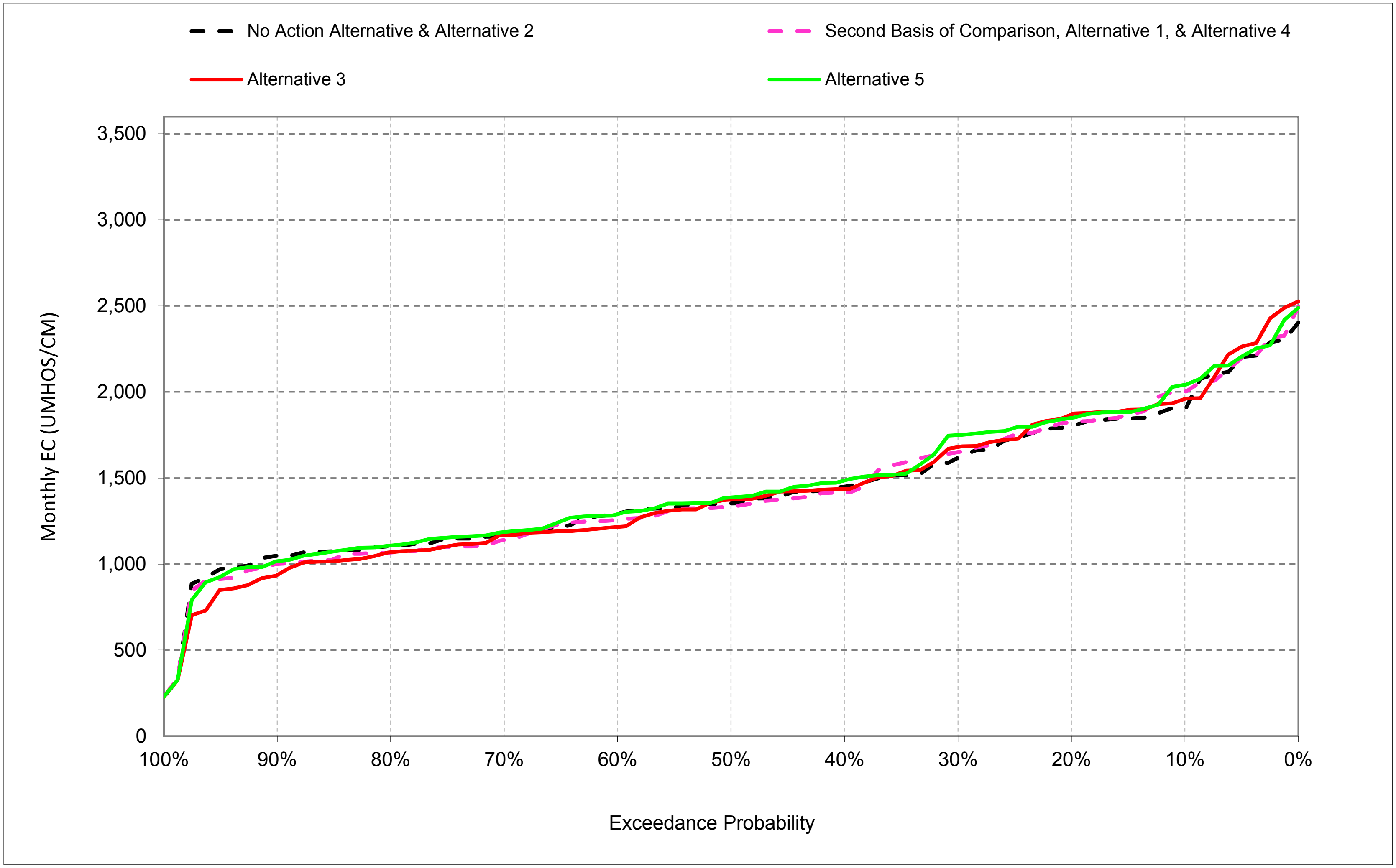
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.10. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, July



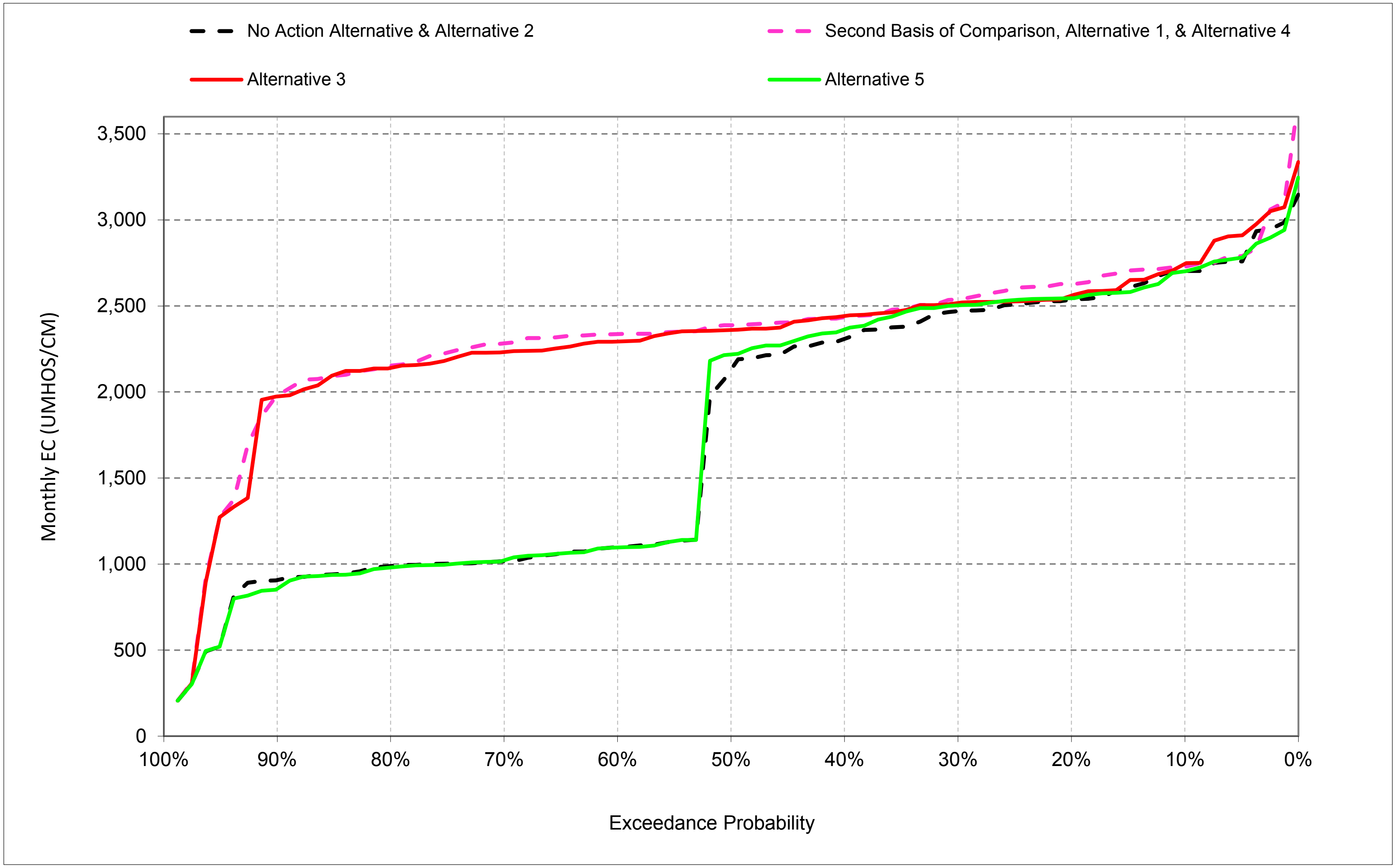
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.11. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.3.12. San Joaquin River at Jersey Point Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.3.1. San Joaquin River at Jersey Point Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	3,007	3,116	2,532	1,369	552	308	303	413	508	1,509	1,909	2,703
20%	2,714	2,686	2,171	1,087	379	280	265	330	474	1,272	1,802	2,537
30%	2,458	2,260	1,540	915	304	251	253	294	429	1,053	1,617	2,470
40%	2,342	1,975	1,248	671	293	242	242	252	373	867	1,450	2,309
50%	2,121	1,104	848	546	275	231	234	243	317	724	1,353	2,131
60%	551	631	725	355	258	223	231	238	290	492	1,293	1,097
70%	328	350	461	259	233	218	226	228	250	433	1,167	1,016
80%	299	293	274	233	219	210	220	225	219	377	1,104	995
90%	278	270	214	219	213	202	214	198	204	295	1,047	924
Long Term												
Full Simulation Period[b]	1,547	1,452	1,168	674	334	249	253	292	398	833	1,429	1,762
Water Year Types[c]												
Wet (32%)	1,075	917	488	284	236	220	223	214	238	352	1,085	906
Above Normal (16%)	2,065	1,629	1,061	461	253	218	232	238	302	462	1,168	1,023
Below Normal (13%)	1,065	1,117	1,155	696	330	247	249	275	373	793	1,421	2,422
Dry (24%)	1,617	1,634	1,576	950	395	260	249	291	407	1,251	1,669	2,464
Critical (15%)	2,335	2,424	2,088	1,270	538	332	348	541	856	1,617	2,060	2,643

Alternative 1

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	2,951	3,235	2,834	1,886	1,012	405	344	494	576	1,438	2,003	2,729
20%	2,789	2,945	2,734	1,587	747	345	266	361	503	1,075	1,825	2,628
30%	2,708	2,660	2,560	1,383	430	268	238	324	454	955	1,650	2,539
40%	2,651	2,577	2,340	1,047	344	244	230	252	370	833	1,416	2,435
50%	2,592	2,514	2,127	782	286	233	220	227	313	670	1,335	2,388
60%	2,471	2,437	1,386	452	262	230	215	218	263	494	1,258	2,336
70%	2,315	2,238	1,023	290	238	215	212	208	252	429	1,139	2,283
80%	2,222	1,917	648	240	217	207	205	200	213	388	1,067	2,162
90%	1,874	903	319	221	204	200	199	189	202	292	1,001	2,028
Long Term												
Full Simulation Period[b]	2,438	2,323	1,788	916	442	275	249	298	418	785	1,422	2,337
Water Year Types[c]												
Wet (32%)	2,232	2,126	939	330	234	220	211	203	229	350	1,034	1,951
Above Normal (16%)	2,643	2,234	1,760	746	307	218	209	219	287	463	1,159	2,348
Below Normal (13%)	2,326	2,133	1,944	1,320	577	293	248	298	394	802	1,409	2,421
Dry (24%)	2,485	2,483	2,323	1,276	558	290	247	308	443	1,079	1,696	2,569
Critical (15%)	2,688	2,756	2,623	1,400	725	416	378	574	954	1,571	2,104	2,696

Alternative 1 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	-56	119	302	517	460	98	40	81	68	-71	94	26
20%	74	259	562	500	368	64	1	31	29	-197	23	91
30%	251	400	1,021	468	126	17	-15	31	25	-97	34	68
40%	308	601	1,092	375	52	2	-12	0	-2	-34	-34	126
50%	471	1,410	1,279	236	11	2	-14	-17	-4	-54	-18	257
60%	1,920	1,806	662	96	5	7	-15	-21	-27	2	-35	1,239
70%	1,987	1,888	562	31	5	-3	-14	-20	2	-3	-27	1,267
80%	1,923	1,624	374	8	-2	-3	-14	-25	-6	10	-37	1,168
90%	1,595	633	104	1	-9	-2	-15	-9	-1	-3	-46	1,104
Long Term												
Full Simulation Period[b]	891	871	620	242	108	26	-4	6	20	-48	-6	574
Water Year Types[c]												
Wet (32%)	1,157	1,209	450	46	-2	0	-12	-11	-9	-2	-51	1,044
Above Normal (16%)	577	605	699	285	54	0	-23	-19	-15	1	-10	1,325
Below Normal (13%)	1,261	1,016	789	624	247	45	-1	23	21	9	-12	-1
Dry (24%)	867	849	747	326	163	31	-2	18	35	-172	26	105
Critical (15%)	353	332	536	130	187	84	30	33	98	-47	44	54

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.3.2. San Joaquin River at Jersey Point Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,007	3,116	2,532	1,369	552	308	303	413	508	1,509	1,909	2,703
20%	2,714	2,686	2,171	1,087	379	280	265	330	474	1,272	1,802	2,537
30%	2,458	2,260	1,540	915	304	251	253	294	429	1,053	1,617	2,470
40%	2,342	1,975	1,248	671	293	242	242	252	373	867	1,450	2,309
50%	2,121	1,104	848	546	275	231	234	243	317	724	1,353	2,131
60%	551	631	725	355	258	223	231	238	290	492	1,293	1,097
70%	328	350	461	259	233	218	226	228	250	433	1,167	1,016
80%	299	293	274	233	219	210	220	225	219	377	1,104	995
90%	278	270	214	219	213	202	214	198	204	295	1,047	924
Long Term												
Full Simulation Period[b]	1,547	1,452	1,168	674	334	249	253	292	398	833	1,429	1,762
Water Year Types[c]												
Wet (32%)	1,075	917	488	284	236	220	223	214	238	352	1,085	906
Above Normal (16%)	2,065	1,629	1,061	461	253	218	232	238	302	462	1,168	1,023
Below Normal (13%)	1,065	1,117	1,155	696	330	247	249	275	373	793	1,421	2,422
Dry (24%)	1,617	1,634	1,576	950	395	260	249	291	407	1,251	1,669	2,464
Critical (15%)	2,335	2,424	2,088	1,270	538	332	348	541	856	1,617	2,060	2,643

Alternative 3

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,000	3,264	2,817	1,420	531	309	299	442	629	1,583	1,959	2,745
20%	2,826	2,989	2,627	1,201	363	272	262	376	536	1,207	1,869	2,559
30%	2,684	2,717	2,487	974	302	248	242	309	474	1,021	1,680	2,517
40%	2,583	2,615	2,277	750	286	238	228	264	405	901	1,436	2,442
50%	2,510	2,522	2,094	615	265	229	219	234	335	722	1,374	2,360
60%	2,448	2,450	1,315	347	246	221	214	218	298	516	1,216	2,297
70%	2,357	2,275	814	265	231	214	209	206	260	463	1,168	2,238
80%	2,260	2,021	659	237	220	209	205	197	218	380	1,069	2,154
90%	1,786	1,032	335	223	210	201	199	189	197	291	937	1,984
Long Term												
Full Simulation Period[b]	2,455	2,358	1,709	713	337	248	243	296	442	831	1,420	2,311
Water Year Types[c]												
Wet (32%)	2,213	2,168	893	303	233	218	209	203	247	360	996	1,901
Above Normal (16%)	2,755	2,312	1,652	532	250	213	209	219	309	478	1,156	2,328
Below Normal (13%)	2,323	2,126	1,949	863	348	247	242	294	443	854	1,458	2,437
Dry (24%)	2,504	2,538	2,278	964	386	258	243	306	477	1,199	1,702	2,528
Critical (15%)	2,694	2,737	2,370	1,243	561	334	355	567	952	1,597	2,120	2,701

Alternative 3 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-7	147	285	51	-21	2	-4	29	121	75	50	42
20%	112	303	456	113	-16	-8	-3	46	62	-66	67	22
30%	226	457	947	59	-2	-3	-11	15	45	-31	63	47
40%	241	640	1,030	78	-7	-4	-14	12	33	34	-14	133
50%	389	1,418	1,246	69	-10	-2	-15	-10	18	-2	21	228
60%	1,897	1,820	591	-8	-11	-1	-17	-21	8	24	-77	1,199
70%	2,029	1,924	353	6	-2	-4	-18	-22	10	30	1	1,222
80%	1,960	1,729	385	4	0	-1	-14	-28	-1	3	-35	1,160
90%	1,507	762	120	4	-2	-2	-15	-9	-7	-4	-111	1,060
Long Term												
Full Simulation Period[b]	908	906	541	39	2	-2	-9	4	44	-2	-9	548
Water Year Types[c]												
Wet (32%)	1,138	1,250	405	19	-3	-2	-14	-11	9	8	-89	995
Above Normal (16%)	689	683	591	71	-3	-4	-23	-18	7	15	-12	1,305
Below Normal (13%)	1,258	1,009	794	168	18	0	-7	19	71	62	37	14
Dry (24%)	887	904	702	14	-9	-2	-6	15	70	-52	32	64
Critical (15%)	359	313	282	-26	24	2	7	26	96	-20	59	58

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.3.3. San Joaquin River at Jersey Point Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,007	3,116	2,532	1,369	552	308	303	413	508	1,509	1,909	2,703
20%	2,714	2,686	2,171	1,087	379	280	265	330	474	1,272	1,802	2,537
30%	2,458	2,260	1,540	915	304	251	253	294	429	1,053	1,617	2,470
40%	2,342	1,975	1,248	671	293	242	242	252	373	867	1,450	2,309
50%	2,121	1,104	848	546	275	231	234	243	317	724	1,353	2,131
60%	551	631	725	355	258	223	231	238	290	492	1,293	1,097
70%	328	350	461	259	233	218	226	228	250	433	1,167	1,016
80%	299	293	274	233	219	210	220	225	219	377	1,104	995
90%	278	270	214	219	213	202	214	198	204	295	1,047	924
Long Term												
Full Simulation Period[b]	1,547	1,452	1,168	674	334	249	253	292	398	833	1,429	1,762
Water Year Types[c]												
Wet (32%)	1,075	917	488	284	236	220	223	214	238	352	1,085	906
Above Normal (16%)	2,065	1,629	1,061	461	253	218	232	238	302	462	1,168	1,023
Below Normal (13%)	1,065	1,117	1,155	696	330	247	249	275	373	793	1,421	2,422
Dry (24%)	1,617	1,634	1,576	950	395	260	249	291	407	1,251	1,669	2,464
Critical (15%)	2,335	2,424	2,088	1,270	538	332	348	541	856	1,617	2,060	2,643

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,030	3,172	2,512	1,369	552	308	281	355	510	1,507	2,042	2,701
20%	2,657	2,756	2,168	1,141	379	280	269	304	460	1,368	1,849	2,544
30%	2,502	2,236	1,537	922	304	250	258	287	426	1,052	1,749	2,503
40%	2,363	1,922	1,248	671	293	242	244	263	383	873	1,485	2,363
50%	2,086	1,124	850	544	274	231	237	248	320	728	1,387	2,218
60%	550	638	724	355	258	223	233	242	293	495	1,290	1,096
70%	323	351	474	259	233	218	229	234	255	435	1,186	1,021
80%	295	289	275	233	219	210	226	227	220	381	1,107	988
90%	274	270	215	219	213	202	216	198	204	297	1,017	906
Long Term												
Full Simulation Period[b]	1,552	1,448	1,171	686	340	250	250	277	383	842	1,453	1,775
Water Year Types[c]												
Wet (32%)	1,078	948	493	284	236	220	223	215	240	352	1,079	898
Above Normal (16%)	2,090	1,576	1,047	460	253	218	233	241	305	465	1,163	1,020
Below Normal (13%)	1,068	1,121	1,152	697	329	247	251	272	375	800	1,423	2,443
Dry (24%)	1,617	1,610	1,593	967	398	260	252	287	409	1,296	1,740	2,503
Critical (15%)	2,333	2,420	2,088	1,321	576	337	320	441	742	1,592	2,129	2,667

Alternative 5 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	23	56	-19	1	0	0	-23	-58	2	-1	133	-2
20%	-57	70	-3	54	0	0	4	-27	-14	96	47	8
30%	44	-24	-3	7	0	-1	5	-7	-3	-1	133	33
40%	20	-54	0	-1	0	0	2	11	11	6	35	54
50%	-35	20	2	-1	-1	0	2	5	3	4	35	87
60%	-1	7	0	0	0	0	2	4	3	3	-3	-1
70%	-5	1	12	0	0	0	3	6	5	3	19	5
80%	-4	-4	1	0	0	0	6	3	1	4	4	-7
90%	-4	-1	0	0	0	0	2	0	0	2	-30	-17
Long Term												
Full Simulation Period[b]	5	-5	3	12	6	1	-3	-15	-15	9	25	13
Water Year Types[c]												
Wet (32%)	3	31	4	0	0	0	0	1	2	0	-6	-8
Above Normal (16%)	24	-54	-14	-1	0	0	1	4	3	2	-5	-3
Below Normal (13%)	3	4	-3	1	0	0	2	-3	3	7	2	20
Dry (24%)	0	-23	16	17	3	0	3	-4	1	45	70	40
Critical (15%)	-2	-4	0	51	38	5	-28	-100	-114	-26	69	25

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.3.4. San Joaquin River at Jersey Point Salinity, Monthly EC

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	2,951	3,235	2,834	1,886	1,012	405	344	494	576	1,438	2,003	2,729
20%	2,789	2,945	2,734	1,587	747	345	266	361	503	1,075	1,825	2,628
30%	2,708	2,660	2,560	1,383	430	268	238	324	454	955	1,650	2,539
40%	2,651	2,577	2,340	1,047	344	244	230	252	370	833	1,416	2,435
50%	2,592	2,514	2,127	782	286	233	220	227	313	670	1,335	2,388
60%	2,471	2,437	1,386	452	262	230	215	218	263	494	1,258	2,336
70%	2,315	2,238	1,023	290	238	215	212	208	252	429	1,139	2,283
80%	2,222	1,917	648	240	217	207	205	200	213	388	1,067	2,162
90%	1,874	903	319	221	204	200	199	189	202	292	1,001	2,028
Long Term												
Full Simulation Period[b]	2,438	2,323	1,788	916	442	275	249	298	418	785	1,422	2,337
Water Year Types[c]												
Wet (32%)	2,232	2,126	939	330	234	220	211	203	229	350	1,034	1,951
Above Normal (16%)	2,643	2,234	1,760	746	307	218	209	219	287	463	1,159	2,348
Below Normal (13%)	2,326	2,133	1,944	1,320	577	293	248	298	394	802	1,409	2,421
Dry (24%)	2,485	2,483	2,323	1,276	558	290	247	308	443	1,079	1,696	2,569
Critical (15%)	2,688	2,756	2,623	1,400	725	416	378	574	954	1,571	2,104	2,696

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	3,007	3,116	2,532	1,369	552	308	303	413	508	1,509	1,909	2,703
20%	2,714	2,686	2,171	1,087	379	280	265	330	474	1,272	1,802	2,537
30%	2,458	2,260	1,540	915	304	251	253	294	429	1,053	1,617	2,470
40%	2,342	1,975	1,248	671	293	242	242	252	373	867	1,450	2,309
50%	2,121	1,104	848	546	275	231	234	243	317	724	1,353	2,131
60%	551	631	725	355	258	223	231	238	290	492	1,293	1,097
70%	328	350	461	259	233	218	226	228	250	433	1,167	1,016
80%	299	293	274	233	219	210	220	225	219	377	1,104	995
90%	278	270	214	219	213	202	214	198	204	295	1,047	924
Long Term												
Full Simulation Period[b]	1,547	1,452	1,168	674	334	249	253	292	398	833	1,429	1,762
Water Year Types[c]												
Wet (32%)	1,075	917	488	284	236	220	223	214	238	352	1,085	906
Above Normal (16%)	2,065	1,629	1,061	461	253	218	232	238	302	462	1,168	1,023
Below Normal (13%)	1,065	1,117	1,155	696	330	247	249	275	373	793	1,421	2,422
Dry (24%)	1,617	1,634	1,576	950	395	260	249	291	407	1,251	1,669	2,464
Critical (15%)	2,335	2,424	2,088	1,270	538	332	348	541	856	1,617	2,060	2,643

No Action Alternative minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	56	-119	-302	-517	-460	-98	-40	-81	-68	71	-94	-26
20%	-74	-259	-562	-500	-368	-64	-1	-31	-29	197	-23	-91
30%	-251	-400	-1,021	-468	-126	-17	15	-31	-25	97	-34	-68
40%	-308	-601	-1,092	-375	-52	-2	12	0	2	34	34	-126
50%	-471	-1,410	-1,279	-236	-11	-2	14	17	4	54	18	-257
60%	-1,920	-1,806	-662	-96	-5	-7	15	21	27	-2	35	-1,239
70%	-1,987	-1,888	-562	-31	-5	3	14	20	-2	3	27	-1,267
80%	-1,923	-1,624	-374	-8	2	3	14	25	6	-10	37	-1,168
90%	-1,595	-633	-104	-1	9	2	15	9	1	3	46	-1,104
Long Term												
Full Simulation Period[b]	-891	-871	-620	-242	-108	-26	4	-6	-20	48	6	-574
Water Year Types[c]												
Wet (32%)	-1,157	-1,209	-450	-46	2	0	12	11	9	2	51	-1,044
Above Normal (16%)	-577	-605	-699	-285	-54	0	23	19	15	-1	10	-1,325
Below Normal (13%)	-1,261	-1,016	-789	-624	-247	-45	1	-23	-21	-9	12	1
Dry (24%)	-867	-849	-747	-326	-163	-31	2	-18	-35	172	-26	-105
Critical (15%)	-353	-332	-536	-130	-187	-84	-30	-33	-98	47	-44	-54

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.3.5. San Joaquin River at Jersey Point Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,951	3,235	2,834	1,886	1,012	405	344	494	576	1,438	2,003	2,729
20%	2,789	2,945	2,734	1,587	747	345	266	361	503	1,075	1,825	2,628
30%	2,708	2,660	2,560	1,383	430	268	238	324	454	955	1,650	2,539
40%	2,651	2,577	2,340	1,047	344	244	230	252	370	833	1,416	2,435
50%	2,592	2,514	2,127	782	286	233	220	227	313	670	1,335	2,388
60%	2,471	2,437	1,386	452	262	230	215	218	263	494	1,258	2,336
70%	2,315	2,238	1,023	290	238	215	212	208	252	429	1,139	2,283
80%	2,222	1,917	648	240	217	207	205	200	213	388	1,067	2,162
90%	1,874	903	319	221	204	200	199	189	202	292	1,001	2,028
Long Term												
Full Simulation Period[b]	2,438	2,323	1,788	916	442	275	249	298	418	785	1,422	2,337
Water Year Types[c]												
Wet (32%)	2,232	2,126	939	330	234	220	211	203	229	350	1,034	1,951
Above Normal (16%)	2,643	2,234	1,760	746	307	218	209	219	287	463	1,159	2,348
Below Normal (13%)	2,326	2,133	1,944	1,320	577	293	248	298	394	802	1,409	2,421
Dry (24%)	2,485	2,483	2,323	1,276	558	290	247	308	443	1,079	1,696	2,569
Critical (15%)	2,688	2,756	2,623	1,400	725	416	378	574	954	1,571	2,104	2,696

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,000	3,264	2,817	1,420	531	309	299	442	629	1,583	1,959	2,745
20%	2,826	2,989	2,627	1,201	363	272	262	376	536	1,207	1,869	2,559
30%	2,684	2,717	2,487	974	302	248	242	309	474	1,021	1,680	2,517
40%	2,583	2,615	2,277	750	286	238	228	264	405	901	1,436	2,442
50%	2,510	2,522	2,094	615	265	229	219	234	335	722	1,374	2,360
60%	2,448	2,450	1,315	347	246	221	214	218	298	516	1,216	2,297
70%	2,357	2,275	814	265	231	214	209	206	260	463	1,168	2,238
80%	2,260	2,021	659	237	220	209	205	197	218	380	1,069	2,154
90%	1,786	1,032	335	223	210	201	199	189	197	291	937	1,984
Long Term												
Full Simulation Period[b]	2,455	2,358	1,709	713	337	248	243	296	442	831	1,420	2,311
Water Year Types[c]												
Wet (32%)	2,213	2,168	893	303	233	218	209	203	247	360	996	1,901
Above Normal (16%)	2,755	2,312	1,652	532	250	213	209	219	309	478	1,156	2,328
Below Normal (13%)	2,323	2,126	1,949	863	348	247	242	294	443	854	1,458	2,437
Dry (24%)	2,504	2,538	2,278	964	386	258	243	306	477	1,199	1,702	2,528
Critical (15%)	2,694	2,737	2,370	1,243	561	334	355	567	952	1,597	2,120	2,701

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	49	28	-17	-466	-480	-96	-45	-52	53	146	-44	16
20%	38	44	-107	-386	-384	-72	-4	15	33	132	44	-69
30%	-24	57	-73	-409	-128	-20	4	-15	20	66	29	-21
40%	-67	39	-63	-297	-58	-5	-2	12	35	68	20	7
50%	-82	7	-33	-168	-21	-4	-1	7	22	52	39	-28
60%	-23	13	-71	-105	-16	-9	-2	0	35	22	-42	-39
70%	42	36	-210	-25	-7	-1	-3	-2	8	33	28	-45
80%	37	104	11	-4	2	2	0	-3	5	-8	2	-8
90%	-88	129	16	2	7	0	0	0	-5	-1	-65	-44
Long Term												
Full Simulation Period[b]	17	35	-79	-203	-106	-27	-6	-2	24	46	-2	-26
Water Year Types[c]												
Wet (32%)	-19	42	-46	-27	-1	-1	-2	1	18	10	-38	-49
Above Normal (16%)	112	78	-108	-214	-57	-4	0	1	22	14	-2	-20
Below Normal (13%)	-3	-7	5	-457	-229	-46	-6	-3	50	53	49	15
Dry (24%)	20	55	-45	-312	-171	-33	-4	-2	34	120	6	-41
Critical (15%)	6	-19	-254	-156	-163	-82	-23	-7	-2	27	15	5

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.3.6. San Joaquin River at Jersey Point Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,951	3,235	2,834	1,886	1,012	405	344	494	576	1,438	2,003	2,729
20%	2,789	2,945	2,734	1,587	747	345	266	361	503	1,075	1,825	2,628
30%	2,708	2,660	2,560	1,383	430	268	238	324	454	955	1,650	2,539
40%	2,651	2,577	2,340	1,047	344	244	230	252	370	833	1,416	2,435
50%	2,592	2,514	2,127	782	286	233	220	227	313	670	1,335	2,388
60%	2,471	2,437	1,386	452	262	230	215	218	263	494	1,258	2,336
70%	2,315	2,238	1,023	290	238	215	212	208	252	429	1,139	2,283
80%	2,222	1,917	648	240	217	207	205	200	213	388	1,067	2,162
90%	1,874	903	319	221	204	200	199	189	202	292	1,001	2,028
Long Term												
Full Simulation Period[b]	2,438	2,323	1,788	916	442	275	249	298	418	785	1,422	2,337
Water Year Types[c]												
Wet (32%)	2,232	2,126	939	330	234	220	211	203	229	350	1,034	1,951
Above Normal (16%)	2,643	2,234	1,760	746	307	218	209	219	287	463	1,159	2,348
Below Normal (13%)	2,326	2,133	1,944	1,320	577	293	248	298	394	802	1,409	2,421
Dry (24%)	2,485	2,483	2,323	1,276	558	290	247	308	443	1,079	1,696	2,569
Critical (15%)	2,688	2,756	2,623	1,400	725	416	378	574	954	1,571	2,104	2,696

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3,030	3,172	2,512	1,369	552	308	281	355	510	1,507	2,042	2,701
20%	2,657	2,756	2,168	1,141	379	280	269	304	460	1,368	1,849	2,544
30%	2,502	2,236	1,537	922	304	250	258	287	426	1,052	1,749	2,503
40%	2,363	1,922	1,248	671	293	242	244	263	383	873	1,485	2,363
50%	2,086	1,124	850	544	274	231	237	248	320	728	1,387	2,218
60%	550	638	724	355	258	223	233	242	293	495	1,290	1,096
70%	323	351	474	259	233	218	229	234	255	435	1,186	1,021
80%	295	289	275	233	219	210	226	227	220	381	1,107	988
90%	274	270	215	219	213	202	216	198	204	297	1,017	906
Long Term												
Full Simulation Period[b]	1,552	1,448	1,171	686	340	250	250	277	383	842	1,453	1,775
Water Year Types[c]												
Wet (32%)	1,078	948	493	284	236	220	223	215	240	352	1,079	898
Above Normal (16%)	2,090	1,576	1,047	460	253	218	233	241	305	465	1,163	1,020
Below Normal (13%)	1,068	1,121	1,152	697	329	247	251	272	375	800	1,423	2,443
Dry (24%)	1,617	1,610	1,593	967	398	260	252	287	409	1,296	1,740	2,503
Critical (15%)	2,333	2,420	2,088	1,321	576	337	320	441	742	1,592	2,129	2,667

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	79	-63	-322	-516	-460	-97	-63	-139	-66	70	38	-27
20%	-131	-189	-566	-446	-367	-65	3	-57	-43	293	24	-83
30%	-207	-425	-1,024	-461	-126	-18	20	-38	-28	96	99	-36
40%	-288	-655	-1,092	-376	-51	-2	14	11	13	40	69	-72
50%	-506	-1,390	-1,277	-238	-12	-2	17	22	7	58	53	-170
60%	-1,921	-1,799	-662	-96	-5	-7	17	24	30	1	33	-1,240
70%	-1,992	-1,887	-550	-31	-5	3	17	26	3	6	47	-1,261
80%	-1,927	-1,628	-373	-8	2	3	21	28	8	-6	40	-1,174
90%	-1,599	-633	-104	-2	9	2	17	10	1	5	16	-1,122
Long Term												
Full Simulation Period[b]	-886	-876	-617	-231	-102	-25	1	-21	-35	57	31	-562
Water Year Types[c]												
Wet (32%)	-1,154	-1,178	-446	-46	2	0	12	12	11	2	45	-1,053
Above Normal (16%)	-553	-659	-713	-286	-54	0	24	23	18	1	5	-1,328
Below Normal (13%)	-1,259	-1,012	-792	-624	-247	-46	3	-26	-19	-2	14	21
Dry (24%)	-867	-873	-731	-309	-160	-30	5	-22	-34	217	44	-65
Critical (15%)	-355	-336	-536	-79	-149	-79	-58	-133	-212	21	25	-29

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

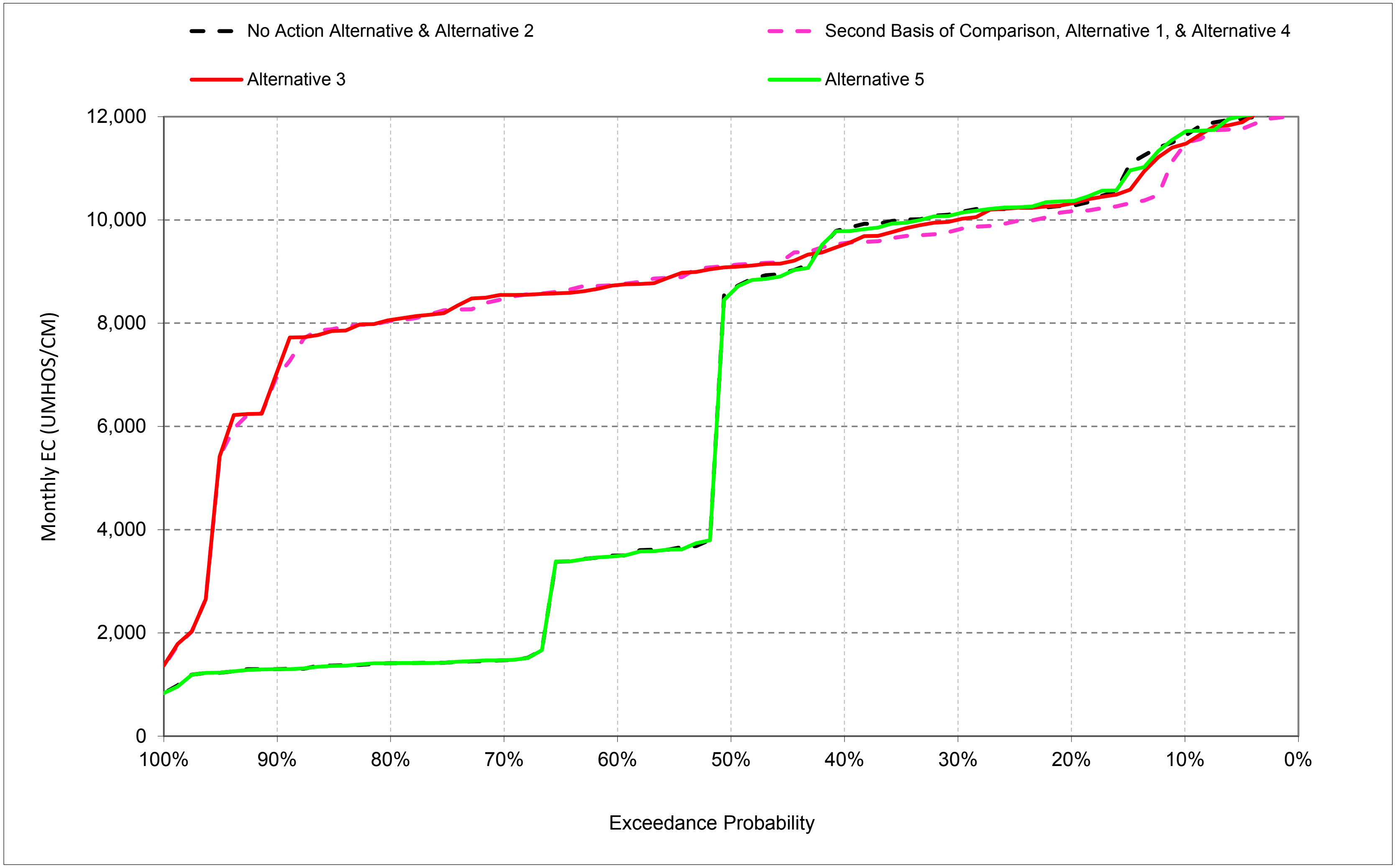
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

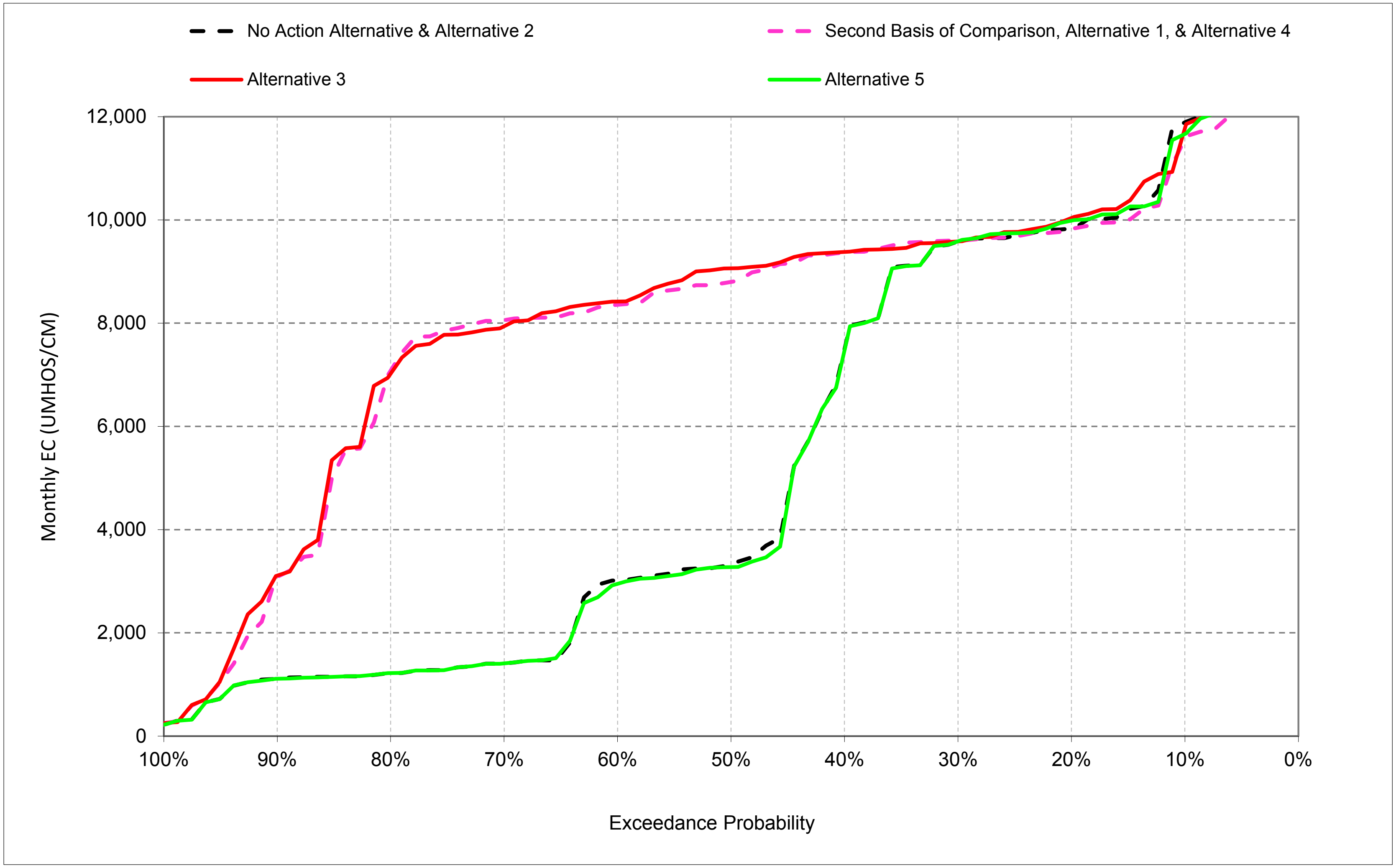
B.4. Sacramento River at Collinsville Salinity

Figure 6E.B.4.1. Sacramento River at Collinsville Salinity, Electrical Conductivity, October



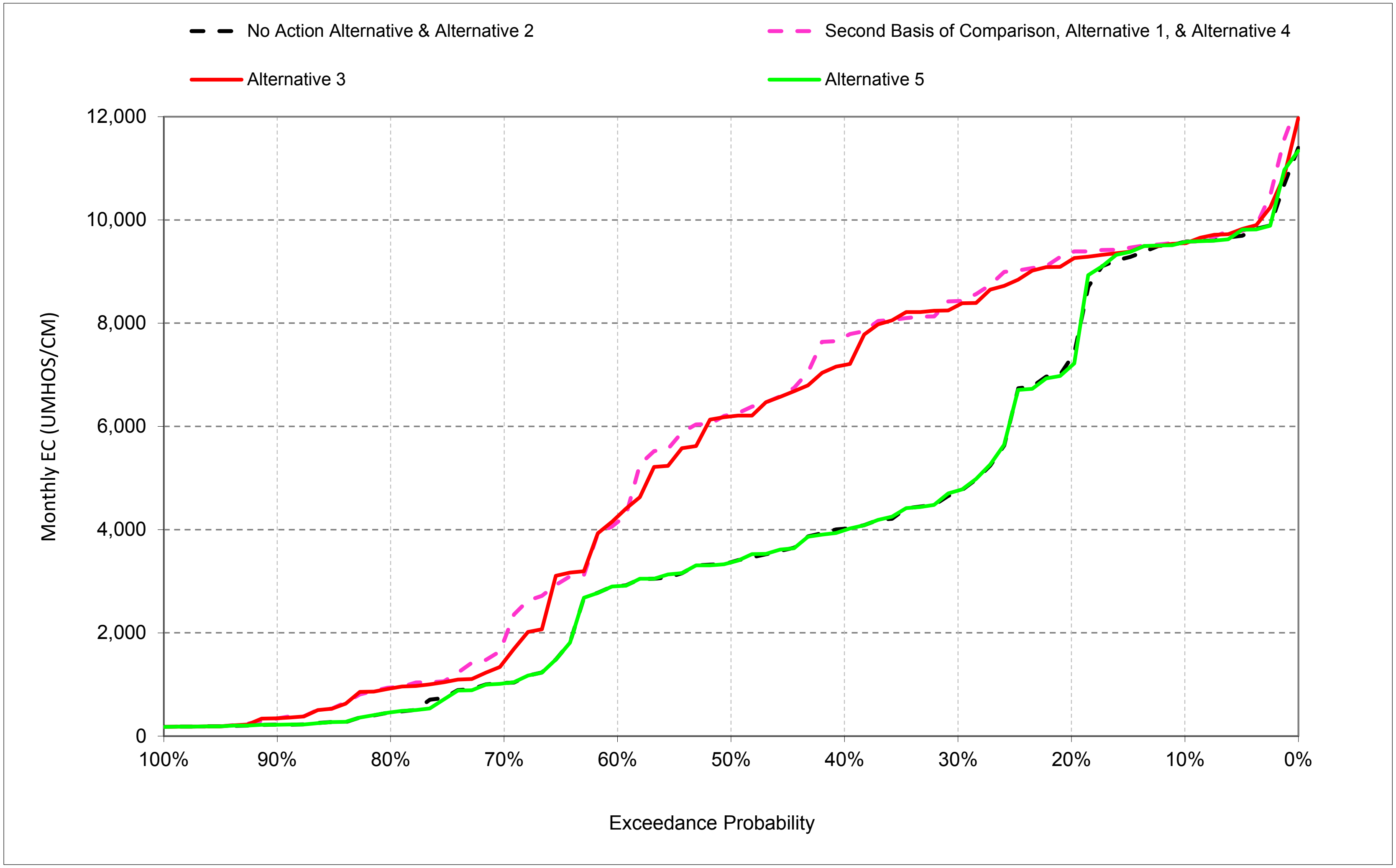
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.2. Sacramento River at Collinsville Salinity, Electrical Conductivity, November



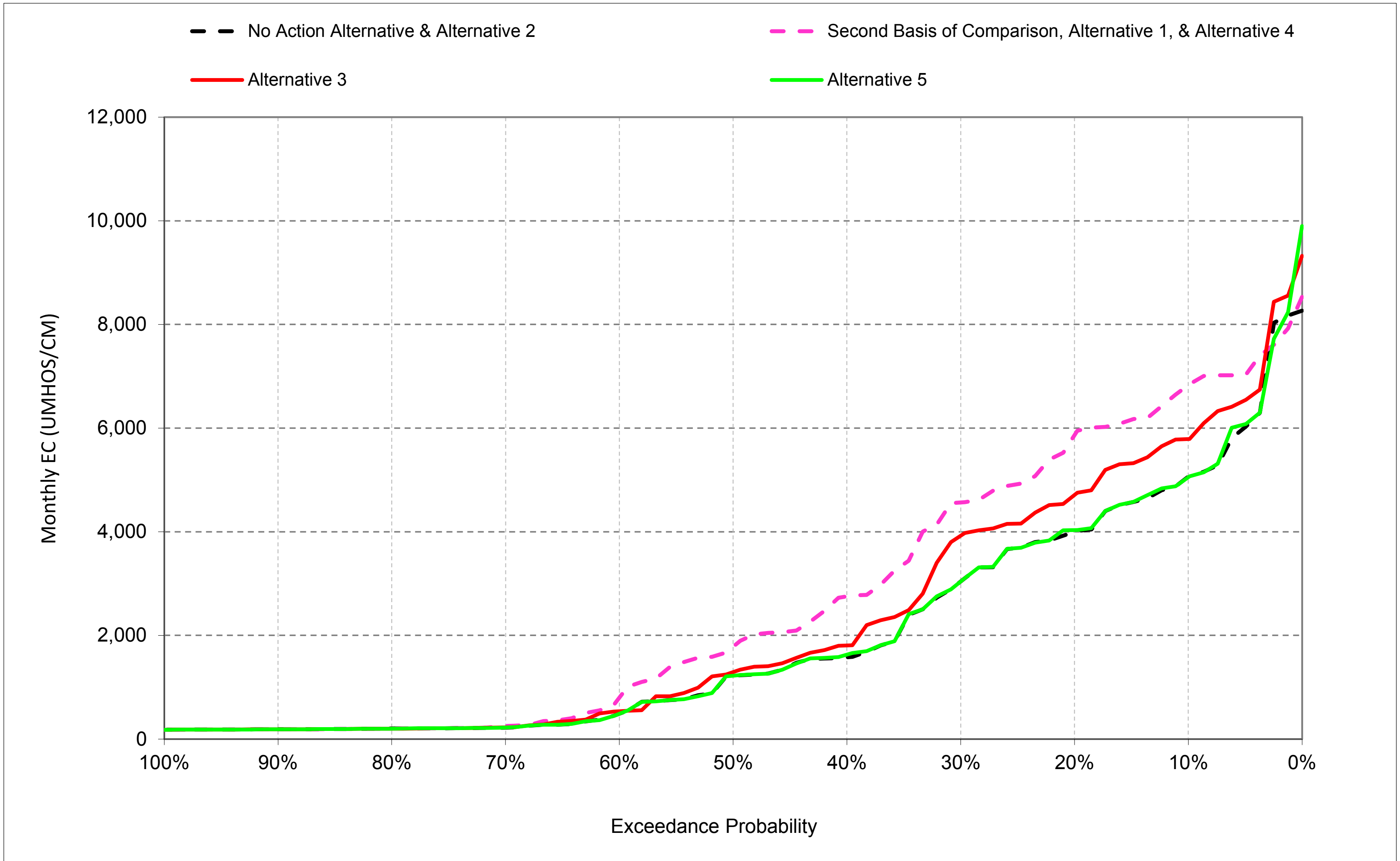
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.3. Sacramento River at Collinsville Salinity, Electrical Conductivity, December



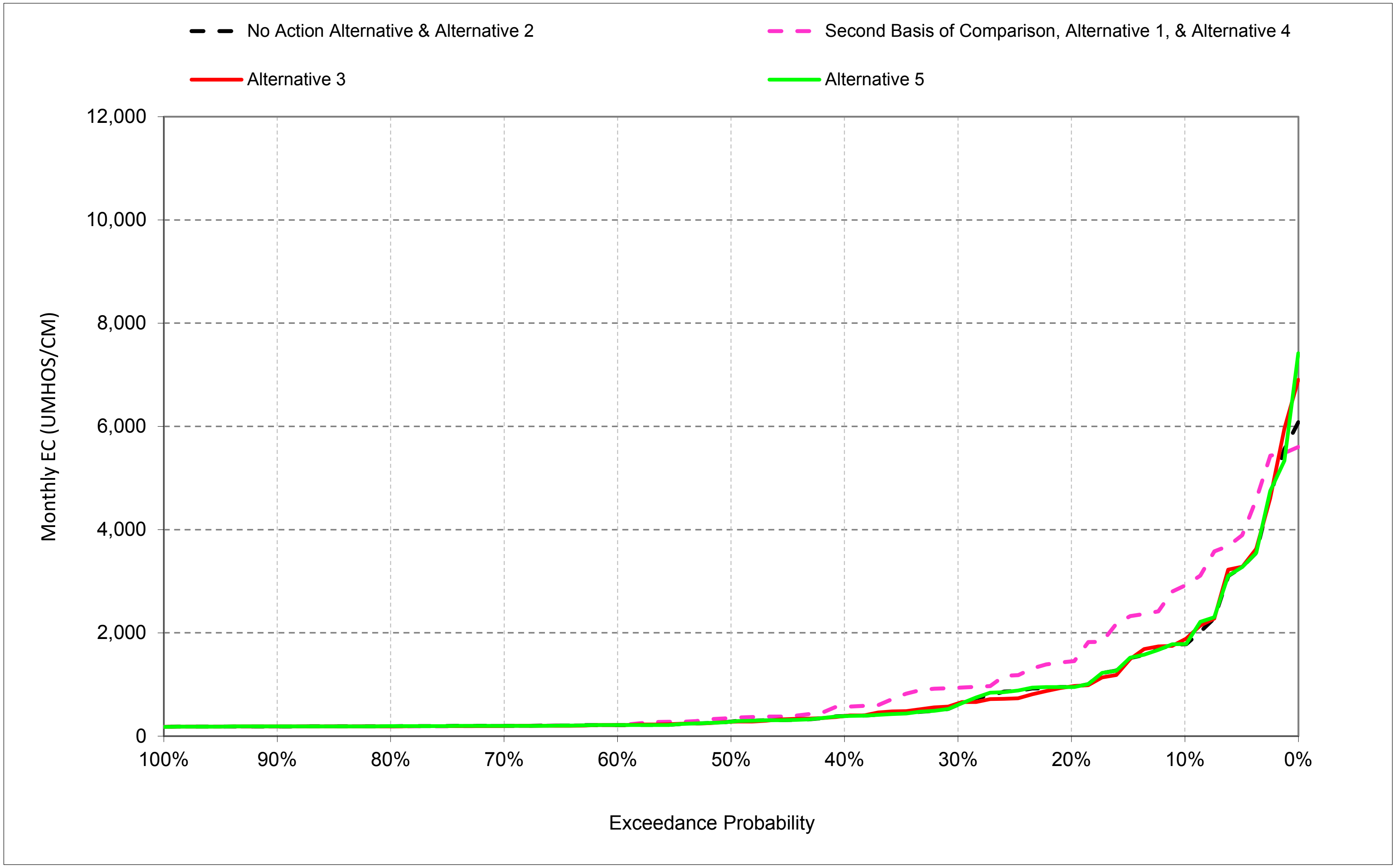
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.4. Sacramento River at Collinsville Salinity, Electrical Conductivity, January



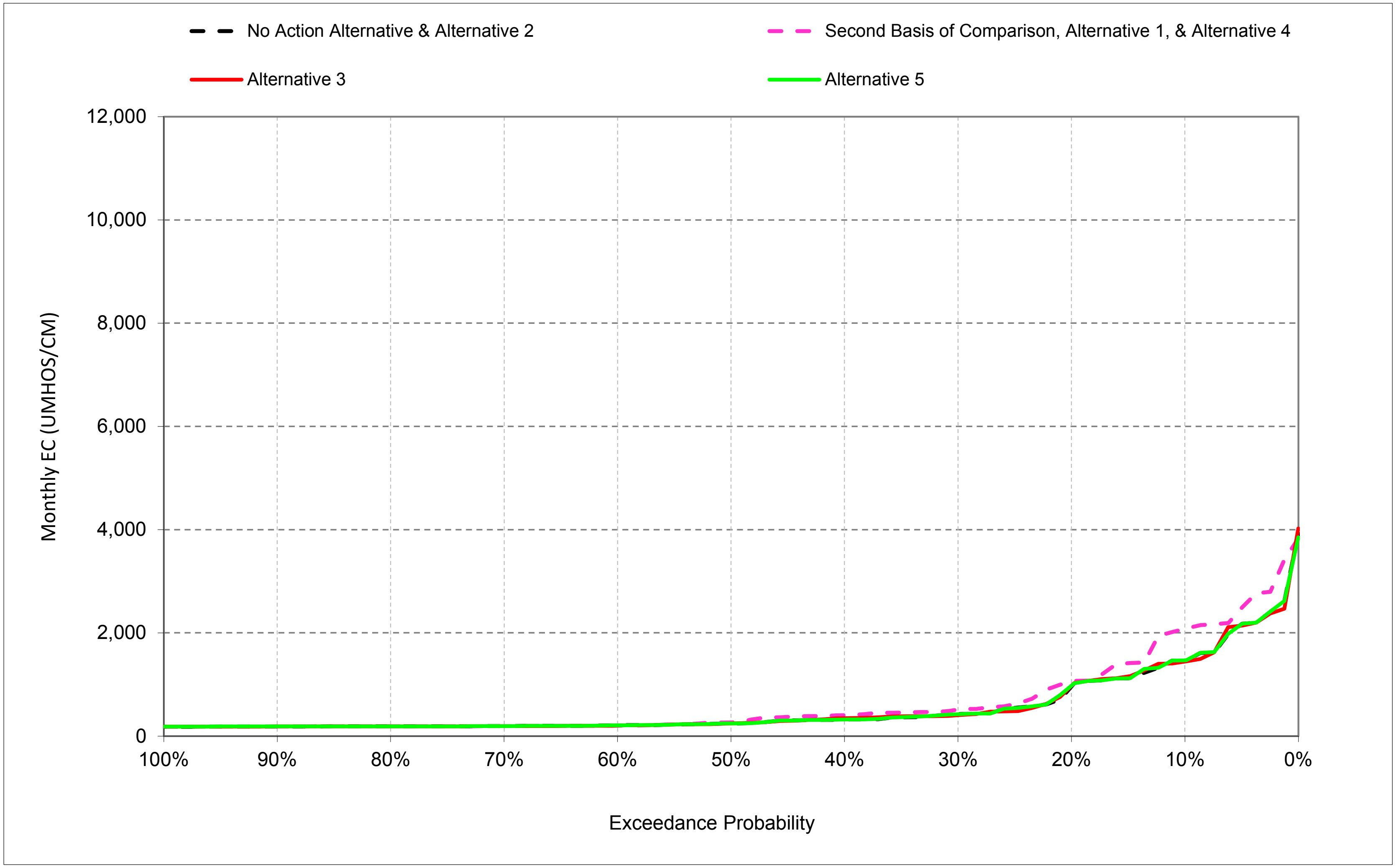
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.5. Sacramento River at Collinsville Salinity, Electrical Conductivity, February



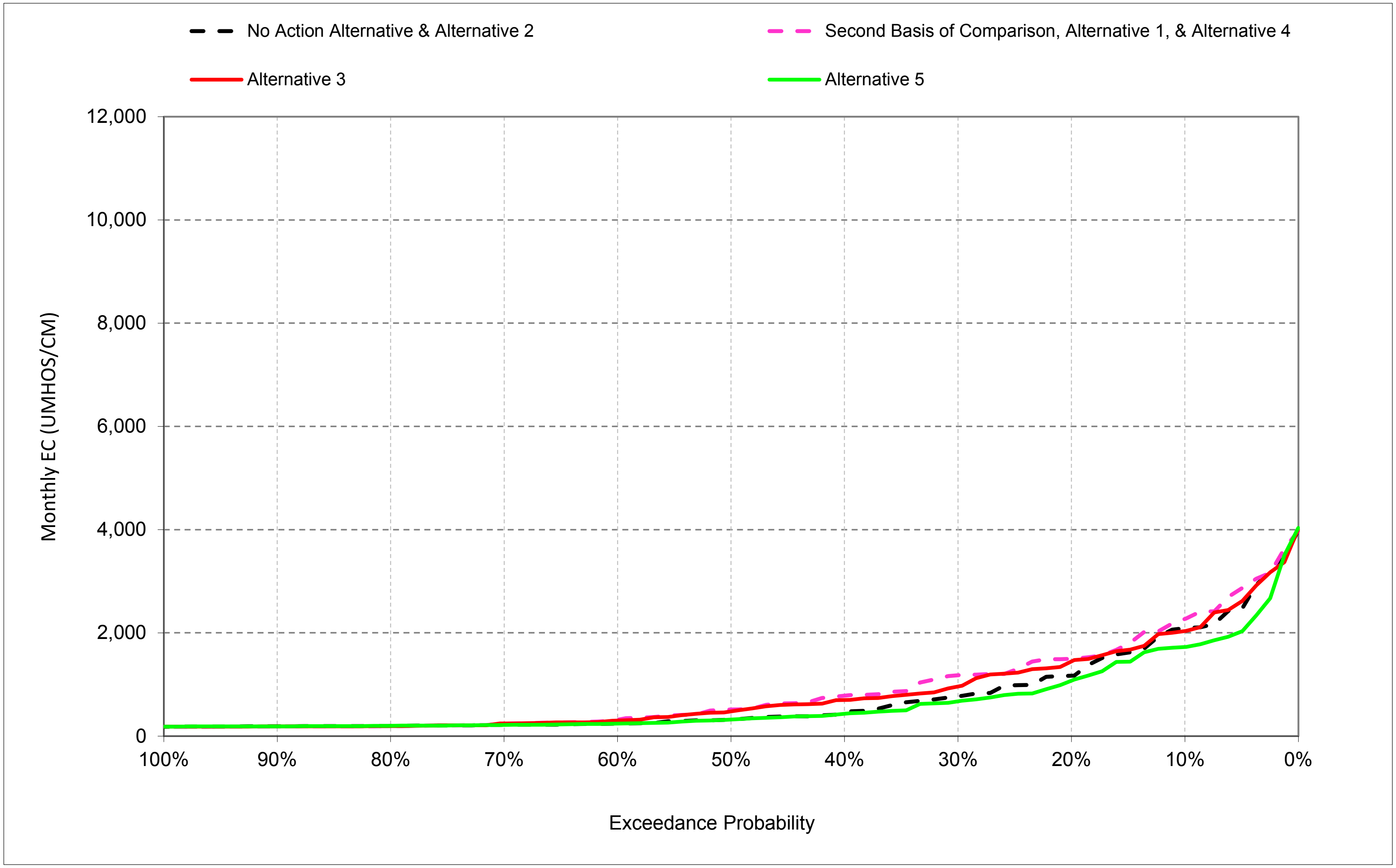
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.6. Sacramento River at Collinsville Salinity, Electrical Conductivity, March



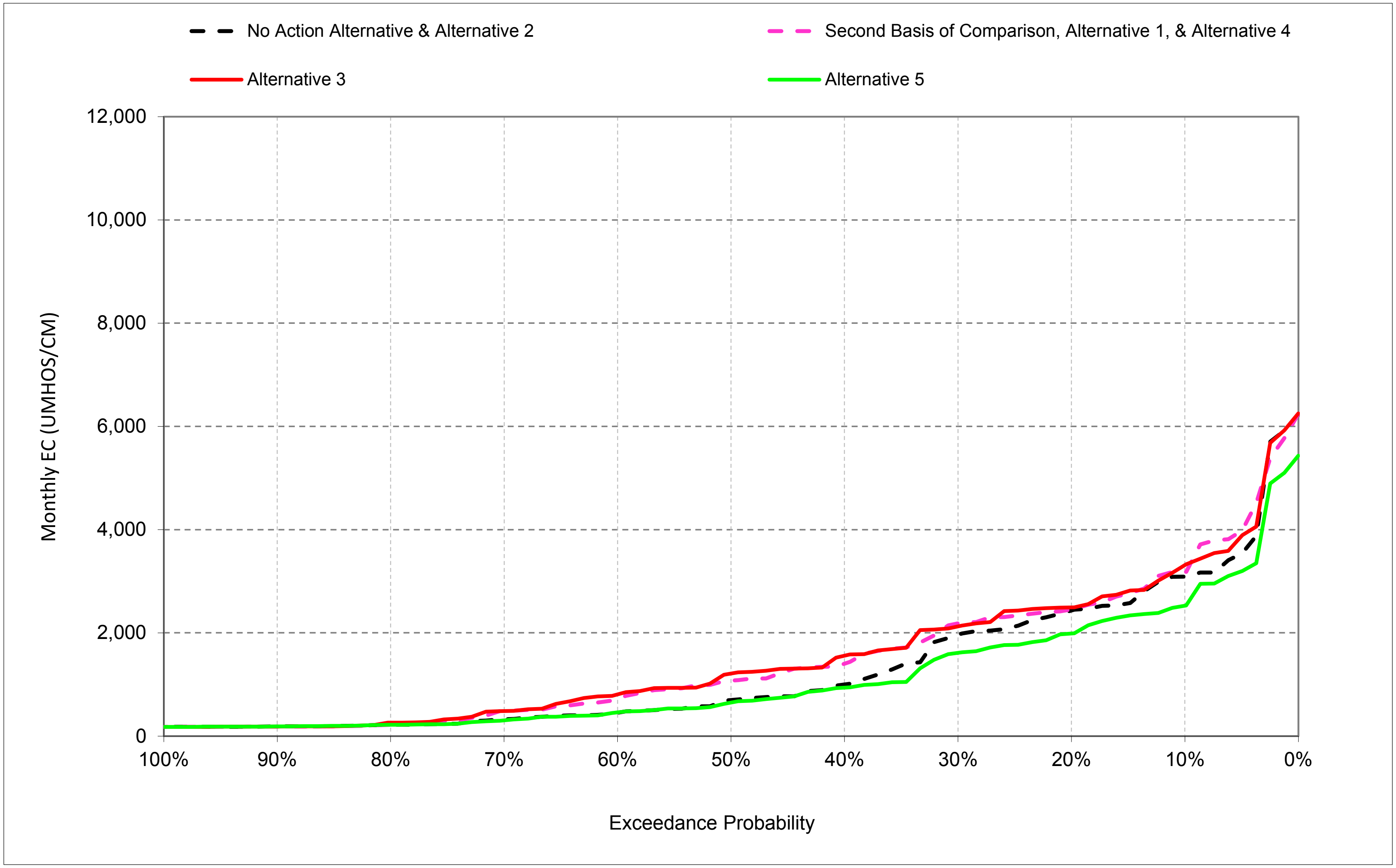
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.7. Sacramento River at Collinsville Salinity, Electrical Conductivity, April



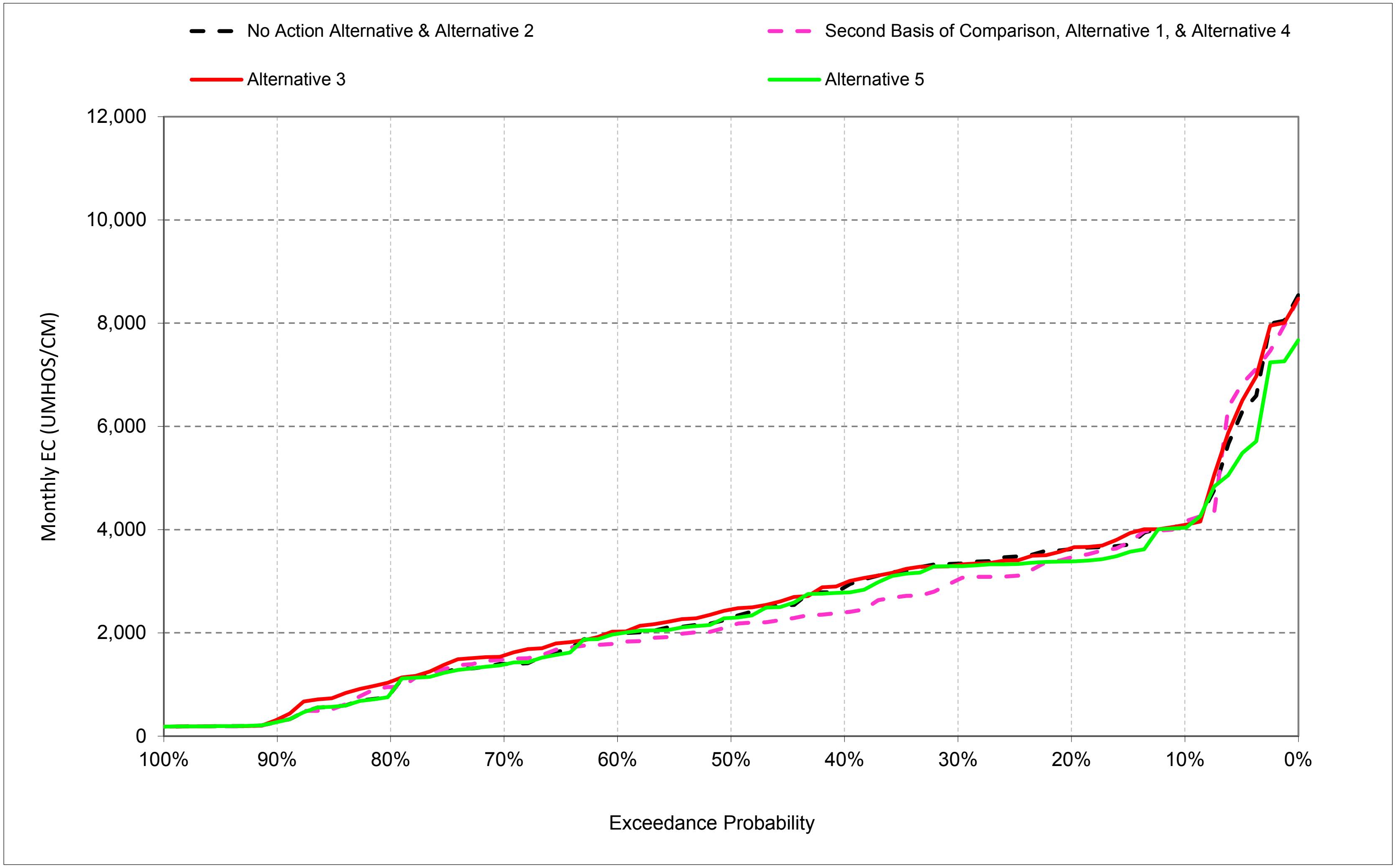
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.8. Sacramento River at Collinsville Salinity, Electrical Conductivity, May



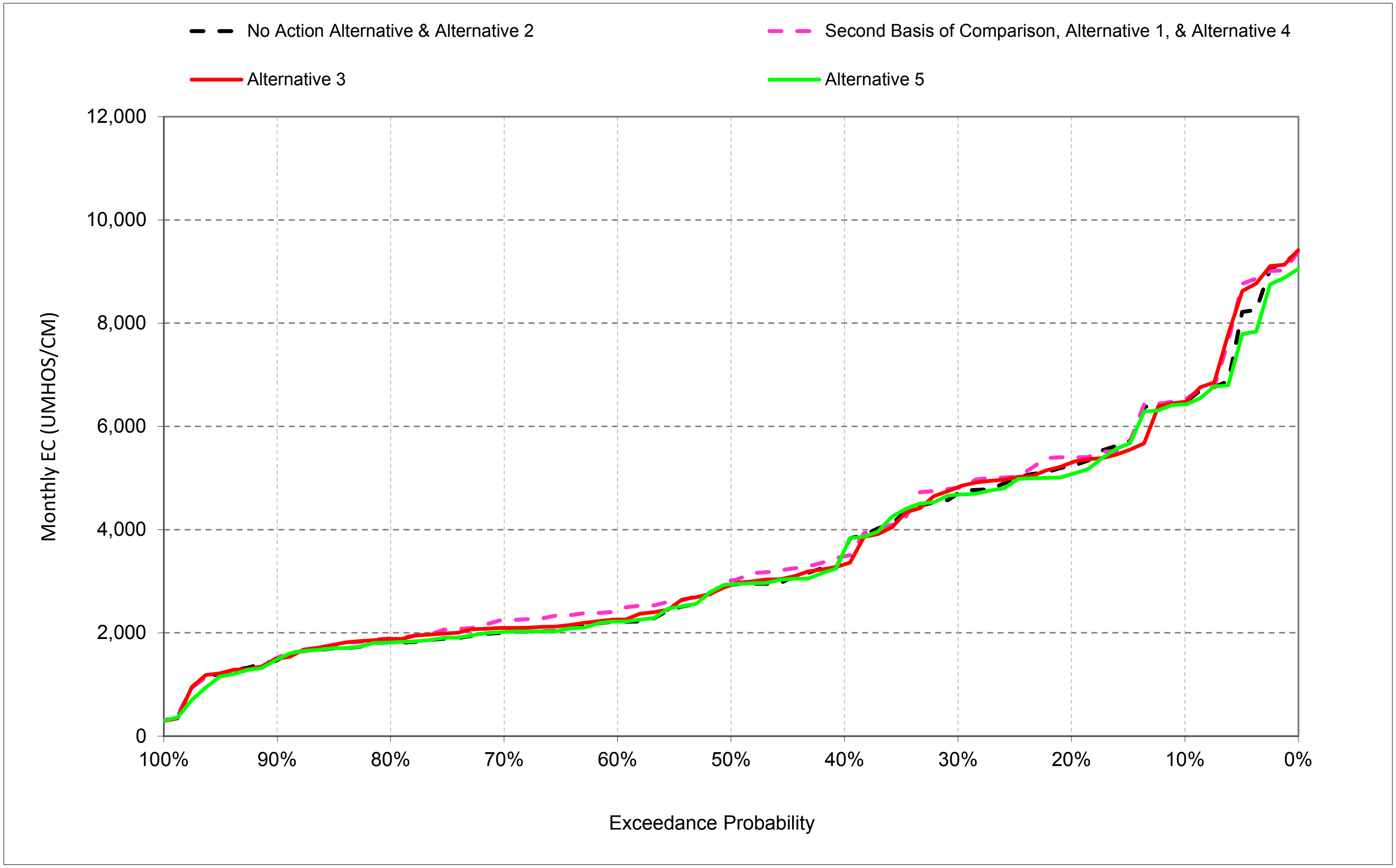
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.9. Sacramento River at Collinsville Salinity, Electrical Conductivity, June



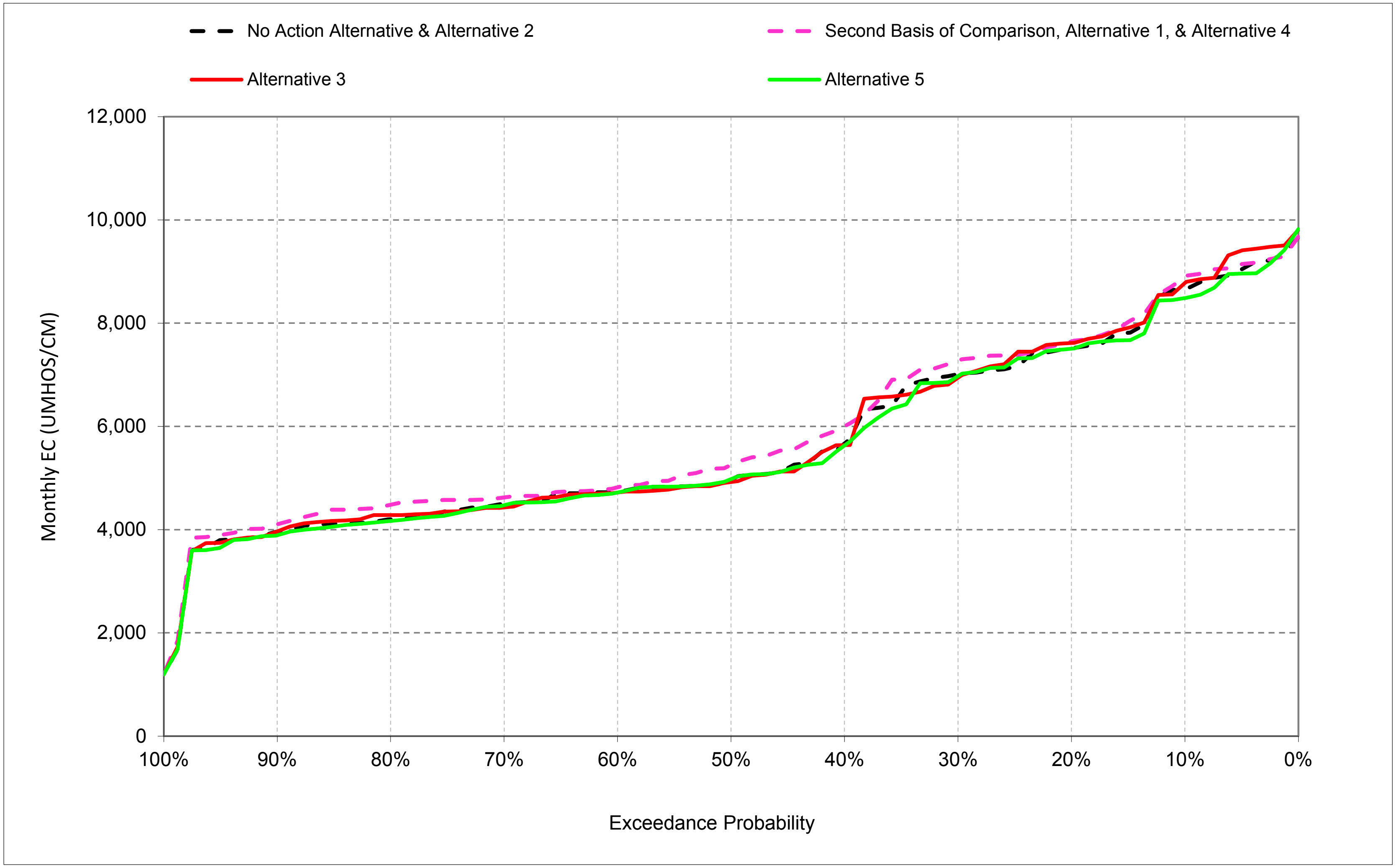
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.10. Sacramento River at Collinsville Salinity, Electrical Conductivity, July



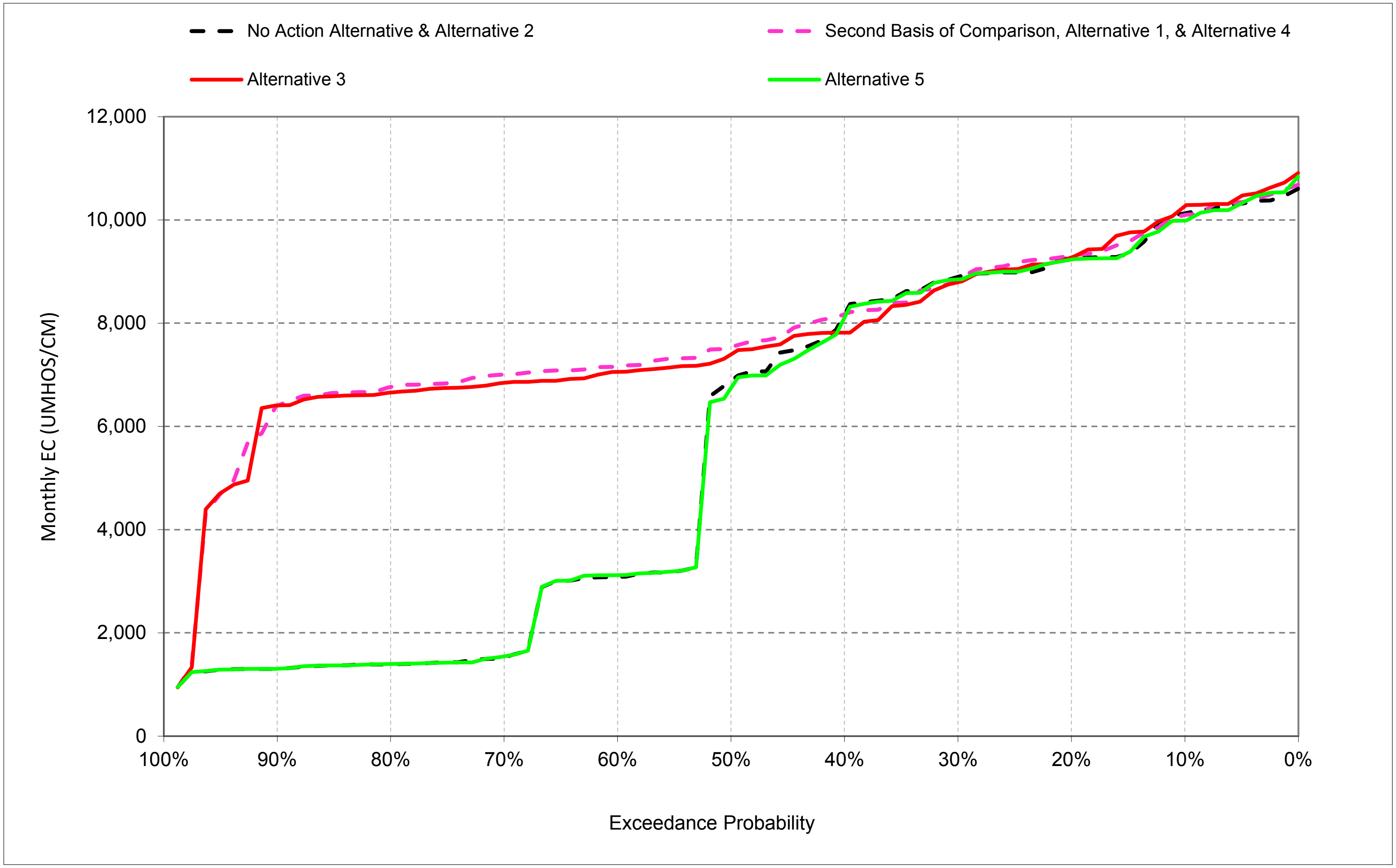
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.11. Sacramento River at Collinsville Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.4.12. Sacramento River at Collinsville Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.4.1. Sacramento River at Collinsville Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11,632	11,890	9,578	5,063	1,781	1,464	2,090	3,090	4,155	6,476	8,660	10,127
20%	10,277	9,831	7,332	3,998	949	961	1,169	2,435	3,623	5,234	7,514	9,247
30%	10,141	9,585	4,732	3,041	606	426	769	1,962	3,340	4,700	7,013	8,896
40%	9,827	7,492	4,017	1,576	387	320	453	1,001	2,885	3,600	5,666	8,171
50%	8,639	3,336	3,369	1,222	281	244	322	698	2,293	2,932	4,968	6,885
60%	3,498	3,015	2,905	490	215	209	241	450	1,989	2,212	4,736	3,085
70%	1,470	1,410	1,029	222	198	193	218	326	1,397	2,004	4,502	1,602
80%	1,412	1,217	456	202	191	189	196	218	824	1,812	4,198	1,399
90%	1,298	1,110	222	188	186	187	190	188	272	1,471	3,961	1,323
Long Term												
Full Simulation Period[b]	6,320	5,459	3,962	2,015	786	573	761	1,307	2,527	3,544	5,733	5,585
Water Year Types[c]												
Wet (32%)	4,370	3,158	1,166	437	202	202	225	319	1,019	1,619	4,183	1,371
Above Normal (16%)	7,918	5,626	3,329	851	275	229	264	484	1,882	2,111	4,271	3,089
Below Normal (13%)	4,510	4,152	4,004	2,297	836	671	811	1,339	2,771	3,082	5,111	7,668
Dry (24%)	6,869	6,488	5,652	3,088	1,075	599	870	1,632	3,030	4,941	7,136	8,778
Critical (15%)	9,556	9,748	7,846	4,647	2,075	1,615	2,228	3,767	5,434	7,359	8,905	10,190

Alternative 1

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11,466	11,564	9,574	6,827	2,915	2,079	2,268	3,182	4,153	6,528	8,899	10,093
20%	10,165	9,824	9,367	5,863	1,446	1,055	1,498	2,452	3,462	5,402	7,644	9,312
30%	9,811	9,601	8,428	4,565	937	514	1,177	2,185	3,028	4,809	7,272	8,855
40%	9,549	9,369	7,734	2,753	570	406	783	1,403	2,397	3,484	6,003	8,173
50%	9,118	8,800	6,231	1,781	351	267	514	1,075	2,139	3,014	5,252	7,538
60%	8,747	8,357	4,144	797	217	206	316	723	1,804	2,442	4,820	7,164
70%	8,473	8,056	1,856	251	197	194	239	488	1,484	2,243	4,622	7,002
80%	8,043	7,074	940	202	189	189	195	222	949	1,891	4,481	6,761
90%	6,957	3,084	340	189	187	186	187	184	280	1,515	4,102	6,400
Long Term												
Full Simulation Period[b]	8,887	8,107	5,432	2,689	1,009	677	904	1,498	2,415	3,660	5,913	7,773
Water Year Types[c]												
Wet (32%)	7,833	6,691	1,993	596	208	206	274	428	970	1,737	4,299	6,163
Above Normal (16%)	9,564	7,831	5,188	1,319	337	236	365	733	1,694	2,215	4,509	6,968
Below Normal (13%)	8,314	7,234	6,059	3,773	1,345	814	1,055	1,605	2,288	3,197	5,514	7,826
Dry (24%)	9,325	9,173	7,597	4,236	1,380	719	1,062	1,807	2,948	5,018	7,294	8,896
Critical (15%)	10,233	10,495	8,960	5,132	2,549	1,979	2,449	4,032	5,552	7,552	8,997	10,215

Alternative 1 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-166	-326	-4	1,764	1,134	615	178	92	-2	52	240	-34
20%	-112	-6	2,035	1,865	497	94	329	17	-161	168	130	65
30%	-330	16	3,696	1,524	332	89	409	223	-313	109	259	-41
40%	-278	1,877	3,717	1,177	183	85	330	402	-487	-117	336	3
50%	480	5,464	2,863	559	70	22	192	377	-154	82	284	653
60%	5,249	5,342	1,239	307	2	-3	74	273	-185	229	83	4,079
70%	7,003	6,646	827	29	-1	0	21	163	87	239	120	5,400
80%	6,631	5,857	484	-1	-2	0	-2	4	125	78	284	5,362
90%	5,658	1,974	118	0	1	0	-2	-4	8	44	142	5,077
Long Term												
Full Simulation Period[b]	2,567	2,648	1,470	674	224	104	143	191	-113	116	180	2,188
Water Year Types[c]												
Wet (32%)	3,462	3,533	827	159	6	3	49	109	-49	118	116	4,792
Above Normal (16%)	1,646	2,206	1,859	469	61	7	101	248	-188	104	238	3,879
Below Normal (13%)	3,804	3,082	2,055	1,476	509	143	243	266	-482	115	403	157
Dry (24%)	2,456	2,685	1,945	1,148	305	120	192	175	-82	77	157	118
Critical (15%)	677	747	1,114	485	475	365	221	265	118	194	91	25

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.4.2. Sacramento River at Collinsville Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11,632	11,890	9,578	5,063	1,781	1,464	2,090	3,090	4,155	6,476	8,660	10,127
20%	10,277	9,831	7,332	3,998	949	961	1,169	2,435	3,623	5,234	7,514	9,247
30%	10,141	9,585	4,732	3,041	606	426	769	1,962	3,340	4,700	7,013	8,896
40%	9,827	7,492	4,017	1,576	387	320	453	1,001	2,885	3,600	5,666	8,171
50%	8,639	3,336	3,369	1,222	281	244	322	698	2,293	2,932	4,968	6,885
60%	3,498	3,015	2,905	490	215	209	241	450	1,989	2,212	4,736	3,085
70%	1,470	1,410	1,029	222	198	193	218	326	1,397	2,004	4,502	1,602
80%	1,412	1,217	456	202	191	189	196	218	824	1,812	4,198	1,399
90%	1,298	1,110	222	188	186	187	190	188	272	1,471	3,961	1,323
Long Term												
Full Simulation Period[b]	6,320	5,459	3,962	2,015	786	573	761	1,307	2,527	3,544	5,733	5,585
Water Year Types[c]												
Wet (32%)	4,370	3,158	1,166	437	202	202	225	319	1,019	1,619	4,183	1,371
Above Normal (16%)	7,918	5,626	3,329	851	275	229	264	484	1,882	2,111	4,271	3,089
Below Normal (13%)	4,510	4,152	4,004	2,297	836	671	811	1,339	2,771	3,082	5,111	7,668
Dry (24%)	6,869	6,488	5,652	3,088	1,075	599	870	1,632	3,030	4,941	7,136	8,778
Critical (15%)	9,556	9,748	7,846	4,647	2,075	1,615	2,228	3,767	5,434	7,359	8,905	10,190

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11,473	11,766	9,549	5,787	1,874	1,443	2,034	3,312	4,091	6,476	8,774	10,265
20%	10,316	10,036	9,229	4,708	962	974	1,448	2,492	3,643	5,299	7,615	9,272
30%	10,004	9,582	8,343	3,924	635	404	960	2,126	3,317	4,823	6,941	8,790
40%	9,525	9,380	7,191	1,805	387	347	700	1,558	2,966	3,326	5,638	7,814
50%	9,090	9,062	6,196	1,292	276	246	478	1,211	2,453	2,926	4,922	7,392
60%	8,738	8,417	4,254	537	212	203	300	808	2,026	2,259	4,719	7,055
70%	8,546	7,940	1,444	225	196	194	245	483	1,562	2,095	4,431	6,842
80%	8,062	7,019	924	200	190	189	195	260	1,055	1,881	4,283	6,655
90%	7,063	3,108	346	189	187	186	187	184	321	1,503	3,965	6,417
Long Term												
Full Simulation Period[b]	8,974	8,210	5,317	2,300	801	573	848	1,520	2,604	3,586	5,768	7,701
Water Year Types[c]												
Wet (32%)	7,796	6,755	1,924	491	202	207	273	471	1,124	1,679	4,162	6,134
Above Normal (16%)	9,825	7,890	4,901	1,000	262	224	349	768	1,940	2,155	4,365	6,907
Below Normal (13%)	8,504	7,415	6,070	2,839	866	676	979	1,668	2,876	3,070	5,050	7,399
Dry (24%)	9,320	9,273	7,532	3,550	1,062	596	973	1,844	3,079	4,904	7,199	8,884
Critical (15%)	10,461	10,663	8,736	5,052	2,188	1,613	2,307	3,932	5,486	7,543	9,042	10,260

Alternative 3 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-159	-124	-29	724	92	-21	-56	222	-64	0	114	138
20%	40	206	1,897	710	13	13	279	57	20	66	102	25
30%	-137	-3	3,611	882	29	-22	192	164	-23	123	-72	-106
40%	-303	1,888	3,174	229	0	27	247	557	81	-274	-28	-357
50%	451	5,726	2,827	70	-5	2	156	514	160	-5	-45	507
60%	5,241	5,402	1,349	47	-2	-5	59	358	37	47	-17	3,971
70%	7,076	6,530	416	3	-2	0	27	157	165	90	-71	5,240
80%	6,650	5,801	467	-3	-2	0	-1	42	231	69	86	5,256
90%	5,765	1,999	124	0	1	-1	-2	-4	49	31	5	5,094
Long Term												
Full Simulation Period[b]	2,654	2,751	1,355	285	15	1	88	213	76	42	35	2,115
Water Year Types[c]												
Wet (32%)	3,425	3,597	757	54	-1	5	48	152	105	59	-21	4,763
Above Normal (16%)	1,907	2,265	1,572	149	-14	-4	85	284	58	44	93	3,818
Below Normal (13%)	3,994	3,264	2,066	543	30	5	167	329	105	-13	-61	-270
Dry (24%)	2,451	2,786	1,880	462	-13	-3	102	211	49	-37	63	106
Critical (15%)	904	915	890	405	114	-2	80	165	53	184	137	71

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.4.3. Sacramento River at Collinsville Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	11,632	11,890	9,578	5,063	1,781	1,464	2,090	3,090	4,155	6,476	8,660	10,127
20%	10,277	9,831	7,332	3,998	949	961	1,169	2,435	3,623	5,234	7,514	9,247
30%	10,141	9,585	4,732	3,041	606	426	769	1,962	3,340	4,700	7,013	8,896
40%	9,827	7,492	4,017	1,576	387	320	453	1,001	2,885	3,600	5,666	8,171
50%	8,639	3,336	3,369	1,222	281	244	322	698	2,293	2,932	4,968	6,885
60%	3,498	3,015	2,905	490	215	209	241	450	1,989	2,212	4,736	3,085
70%	1,470	1,410	1,029	222	198	193	218	326	1,397	2,004	4,502	1,602
80%	1,412	1,217	456	202	191	189	196	218	824	1,812	4,198	1,399
90%	1,298	1,110	222	188	186	187	190	188	272	1,471	3,961	1,323
Long Term												
Full Simulation Period[b]	6,320	5,459	3,962	2,015	786	573	761	1,307	2,527	3,544	5,733	5,585
Water Year Types[c]												
Wet (32%)	4,370	3,158	1,166	437	202	202	225	319	1,019	1,619	4,183	1,371
Above Normal (16%)	7,918	5,626	3,329	851	275	229	264	484	1,882	2,111	4,271	3,089
Below Normal (13%)	4,510	4,152	4,004	2,297	836	671	811	1,339	2,771	3,082	5,111	7,668
Dry (24%)	6,869	6,488	5,652	3,088	1,075	599	870	1,632	3,030	4,941	7,136	8,778
Critical (15%)	9,556	9,748	7,846	4,647	2,075	1,615	2,228	3,767	5,434	7,359	8,905	10,190

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	11,705	11,663	9,569	5,052	1,782	1,468	1,727	2,525	4,035	6,427	8,485	9,986
20%	10,368	9,986	7,171	4,034	950	978	1,075	1,987	3,386	5,074	7,505	9,231
30%	10,121	9,585	4,758	3,042	605	424	675	1,614	3,293	4,676	6,975	8,848
40%	9,781	7,463	3,988	1,630	387	319	431	939	2,780	3,601	5,629	8,104
50%	8,583	3,273	3,366	1,222	281	246	321	651	2,291	2,939	4,979	6,741
60%	3,488	2,950	2,905	488	215	208	242	459	1,984	2,219	4,721	3,119
70%	1,470	1,410	1,021	222	198	193	218	303	1,388	2,016	4,472	1,600
80%	1,413	1,219	460	202	191	189	198	218	825	1,814	4,170	1,404
90%	1,295	1,110	222	188	186	187	190	188	273	1,488	3,890	1,324
Long Term												
Full Simulation Period[b]	6,311	5,440	3,967	2,039	804	574	682	1,148	2,424	3,494	5,684	5,571
Water Year Types[c]												
Wet (32%)	4,367	3,175	1,168	437	202	202	224	306	1,015	1,598	4,138	1,371
Above Normal (16%)	7,893	5,516	3,295	850	275	229	264	474	1,874	2,111	4,272	3,103
Below Normal (13%)	4,522	4,157	4,009	2,301	835	670	725	1,189	2,726	3,065	5,071	7,586
Dry (24%)	6,861	6,468	5,682	3,112	1,081	600	739	1,414	2,917	4,887	7,081	8,770
Critical (15%)	9,529	9,725	7,860	4,772	2,188	1,625	1,993	3,221	4,976	7,175	8,795	10,167

Alternative 5 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	74	-227	-9	-11	0	4	-363	-565	-119	-49	-175	-141
20%	92	156	-161	35	0	17	-94	-448	-237	-160	-9	-17
30%	-20	0	26	0	-1	-2	-94	-348	-47	-25	-38	-48
40%	-46	-29	-28	54	0	-1	-23	-62	-105	1	-37	-67
50%	-56	-63	-3	0	0	2	-1	-47	-2	7	11	-143
60%	-10	-66	0	-1	0	-1	1	9	-5	7	-16	34
70%	0	0	-7	0	0	0	0	-22	-9	11	-30	-3
80%	0	2	4	0	0	0	2	-1	1	2	-28	5
90%	-3	0	0	0	0	0	0	0	0	16	-71	1
Long Term												
Full Simulation Period[b]	-9	-19	5	25	18	2	-78	-159	-103	-49	-49	-14
Water Year Types[c]												
Wet (32%)	-3	17	2	0	0	0	-1	-13	-4	-21	-45	0
Above Normal (16%)	-25	-109	-34	-1	0	0	0	-11	-8	0	1	14
Below Normal (13%)	12	6	6	5	-1	-1	-86	-150	-45	-17	-40	-83
Dry (24%)	-7	-19	29	24	6	1	-132	-218	-113	-54	-56	-8
Critical (15%)	-28	-23	13	125	114	10	-235	-546	-457	-184	-110	-22

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.4.4. Sacramento River at Collinsville Salinity, Monthly EC

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	11,466	11,564	9,574	6,827	2,915	2,079	2,268	3,182	4,153	6,528	8,899	10,093
20%	10,165	9,824	9,367	5,863	1,446	1,055	1,498	2,452	3,462	5,402	7,644	9,312
30%	9,811	9,601	8,428	4,565	937	514	1,177	2,185	3,028	4,809	7,272	8,855
40%	9,549	9,369	7,734	2,753	570	406	783	1,403	2,397	3,484	6,003	8,173
50%	9,118	8,800	6,231	1,781	351	267	514	1,075	2,139	3,014	5,252	7,538
60%	8,747	8,357	4,144	797	217	206	316	723	1,804	2,442	4,820	7,164
70%	8,473	8,056	1,856	251	197	194	239	488	1,484	2,243	4,622	7,002
80%	8,043	7,074	940	202	189	189	195	222	949	1,891	4,481	6,761
90%	6,957	3,084	340	189	187	186	187	184	280	1,515	4,102	6,400
Long Term												
Full Simulation Period[b]	8,887	8,107	5,432	2,689	1,009	677	904	1,498	2,415	3,660	5,913	7,773
Water Year Types[c]												
Wet (32%)	7,833	6,691	1,993	596	208	206	274	428	970	1,737	4,299	6,163
Above Normal (16%)	9,564	7,831	5,188	1,319	337	236	365	733	1,694	2,215	4,509	6,968
Below Normal (13%)	8,314	7,234	6,059	3,773	1,345	814	1,055	1,605	2,288	3,197	5,514	7,826
Dry (24%)	9,325	9,173	7,597	4,236	1,380	719	1,062	1,807	2,948	5,018	7,294	8,896
Critical (15%)	10,233	10,495	8,960	5,132	2,549	1,979	2,449	4,032	5,552	7,552	8,997	10,215

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	11,632	11,890	9,578	5,063	1,781	1,464	2,090	3,090	4,155	6,476	8,660	10,127
20%	10,277	9,831	7,332	3,998	949	961	1,169	2,435	3,623	5,234	7,514	9,247
30%	10,141	9,585	4,732	3,041	606	426	769	1,962	3,340	4,700	7,013	8,896
40%	9,827	7,492	4,017	1,576	387	320	453	1,001	2,885	3,600	5,666	8,171
50%	8,639	3,336	3,369	1,222	281	244	322	698	2,293	2,932	4,968	6,885
60%	3,498	3,015	2,905	490	215	209	241	450	1,989	2,212	4,736	3,085
70%	1,470	1,410	1,029	222	198	193	218	326	1,397	2,004	4,502	1,602
80%	1,412	1,217	456	202	191	189	196	218	824	1,812	4,198	1,399
90%	1,298	1,110	222	188	186	187	190	188	272	1,471	3,961	1,323
Long Term												
Full Simulation Period[b]	6,320	5,459	3,962	2,015	786	573	761	1,307	2,527	3,544	5,733	5,585
Water Year Types[c]												
Wet (32%)	4,370	3,158	1,166	437	202	202	225	319	1,019	1,619	4,183	1,371
Above Normal (16%)	7,918	5,626	3,329	851	275	229	264	484	1,882	2,111	4,271	3,089
Below Normal (13%)	4,510	4,152	4,004	2,297	836	671	811	1,339	2,771	3,082	5,111	7,668
Dry (24%)	6,869	6,488	5,652	3,088	1,075	599	870	1,632	3,030	4,941	7,136	8,778
Critical (15%)	9,556	9,748	7,846	4,647	2,075	1,615	2,228	3,767	5,434	7,359	8,905	10,190

No Action Alternative minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	166	326	4	-1,764	-1,134	-615	-178	-92	2	-52	-240	34
20%	112	6	-2,035	-1,865	-497	-94	-329	-17	161	-168	-130	-65
30%	330	-16	-3,696	-1,524	-332	-89	-409	-223	313	-109	-259	41
40%	278	-1,877	-3,717	-1,177	-183	-85	-330	-402	487	117	-336	-3
50%	-480	-5,464	-2,863	-559	-70	-22	-192	-377	154	-82	-284	-653
60%	-5,249	-5,342	-1,239	-307	-2	3	-74	-273	185	-229	-83	-4,079
70%	-7,003	-6,646	-827	-29	1	0	-21	-163	-87	-239	-120	-5,400
80%	-6,631	-5,857	-484	1	2	0	2	-4	-125	-78	-284	-5,362
90%	-5,658	-1,974	-118	0	-1	0	2	4	-8	-44	-142	-5,077
Long Term												
Full Simulation Period[b]	-2,567	-2,648	-1,470	-674	-224	-104	-143	-191	113	-116	-180	-2,188
Water Year Types[c]												
Wet (32%)	-3,462	-3,533	-827	-159	-6	-3	-49	-109	49	-118	-116	-4,792
Above Normal (16%)	-1,646	-2,206	-1,859	-469	-61	-7	-101	-248	188	-104	-238	-3,879
Below Normal (13%)	-3,804	-3,082	-2,055	-1,476	-509	-143	-243	-266	482	-115	-403	-157
Dry (24%)	-2,456	-2,685	-1,945	-1,148	-305	-120	-192	-175	82	-77	-157	-118
Critical (15%)	-677	-747	-1,114	-485	-475	-365	-221	-265	-118	-194	-91	-25

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.4.5. Sacramento River at Collinsville Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11,466	11,564	9,574	6,827	2,915	2,079	2,268	3,182	4,153	6,528	8,899	10,093
20%	10,165	9,824	9,367	5,863	1,446	1,055	1,498	2,452	3,462	5,402	7,644	9,312
30%	9,811	9,601	8,428	4,565	937	514	1,177	2,185	3,028	4,809	7,272	8,855
40%	9,549	9,369	7,734	2,753	570	406	783	1,403	2,397	3,484	6,003	8,173
50%	9,118	8,800	6,231	1,781	351	267	514	1,075	2,139	3,014	5,252	7,538
60%	8,747	8,357	4,144	797	217	206	316	723	1,804	2,442	4,820	7,164
70%	8,473	8,056	1,856	251	197	194	239	488	1,484	2,243	4,622	7,002
80%	8,043	7,074	940	202	189	189	195	222	949	1,891	4,481	6,761
90%	6,957	3,084	340	189	187	186	187	184	280	1,515	4,102	6,400
Long Term												
Full Simulation Period[b]	8,887	8,107	5,432	2,689	1,009	677	904	1,498	2,415	3,660	5,913	7,773
Water Year Types[c]												
Wet (32%)	7,833	6,691	1,993	596	208	206	274	428	970	1,737	4,299	6,163
Above Normal (16%)	9,564	7,831	5,188	1,319	337	236	365	733	1,694	2,215	4,509	6,968
Below Normal (13%)	8,314	7,234	6,059	3,773	1,345	814	1,055	1,605	2,288	3,197	5,514	7,826
Dry (24%)	9,325	9,173	7,597	4,236	1,380	719	1,062	1,807	2,948	5,018	7,294	8,896
Critical (15%)	10,233	10,495	8,960	5,132	2,549	1,979	2,449	4,032	5,552	7,552	8,997	10,215

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11,473	11,766	9,549	5,787	1,874	1,443	2,034	3,312	4,091	6,476	8,774	10,265
20%	10,316	10,036	9,229	4,708	962	974	1,448	2,492	3,643	5,299	7,615	9,272
30%	10,004	9,582	8,343	3,924	635	404	960	2,126	3,317	4,823	6,941	8,790
40%	9,525	9,380	7,191	1,805	387	347	700	1,558	2,966	3,326	5,638	7,814
50%	9,090	9,062	6,196	1,292	276	246	478	1,211	2,453	2,926	4,922	7,392
60%	8,738	8,417	4,254	537	212	203	300	808	2,026	2,259	4,719	7,055
70%	8,546	7,940	1,444	225	196	194	245	483	1,562	2,095	4,431	6,842
80%	8,062	7,019	924	200	190	189	195	260	1,055	1,881	4,283	6,655
90%	7,063	3,108	346	189	187	186	187	184	321	1,503	3,965	6,417
Long Term												
Full Simulation Period[b]	8,974	8,210	5,317	2,300	801	573	848	1,520	2,604	3,586	5,768	7,701
Water Year Types[c]												
Wet (32%)	7,796	6,755	1,924	491	202	207	273	471	1,124	1,679	4,162	6,134
Above Normal (16%)	9,825	7,890	4,901	1,000	262	224	349	768	1,940	2,155	4,365	6,907
Below Normal (13%)	8,504	7,415	6,070	2,839	866	676	979	1,668	2,876	3,070	5,050	7,399
Dry (24%)	9,320	9,273	7,532	3,550	1,062	596	973	1,844	3,079	4,904	7,199	8,884
Critical (15%)	10,461	10,663	8,736	5,052	2,188	1,613	2,307	3,932	5,486	7,543	9,042	10,260

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	7	202	-25	-1,040	-1,041	-636	-234	130	-62	-52	-125	172
20%	151	212	-138	-1,155	-484	-81	-50	40	182	-103	-29	-40
30%	193	-18	-86	-641	-303	-111	-217	-59	289	14	-332	-64
40%	-25	11	-543	-947	-183	-58	-83	154	569	-158	-365	-359
50%	-29	262	-36	-489	-75	-21	-37	137	313	-88	-329	-146
60%	-9	60	110	-260	-5	-3	-15	85	222	-183	-101	-109
70%	73	-116	-411	-26	-1	0	6	-5	78	-149	-191	-160
80%	19	-55	-16	-2	0	-1	0	38	106	-9	-198	-106
90%	106	25	6	0	0	0	0	0	41	-12	-137	17
Long Term												
Full Simulation Period[b]	87	103	-115	-388	-209	-103	-56	22	189	-74	-145	-73
Water Year Types[c]												
Wet (32%)	-37	64	-70	-105	-6	2	-1	43	154	-59	-137	-29
Above Normal (16%)	261	59	-287	-320	-75	-12	-16	36	246	-60	-144	-61
Below Normal (13%)	190	181	11	-933	-479	-138	-76	63	588	-128	-464	-427
Dry (24%)	-5	100	-65	-686	-318	-123	-90	36	131	-114	-95	-12
Critical (15%)	228	168	-224	-80	-361	-366	-141	-100	-65	-10	45	45

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.4.6. Sacramento River at Collinsville Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11,466	11,564	9,574	6,827	2,915	2,079	2,268	3,182	4,153	6,528	8,899	10,093
20%	10,165	9,824	9,367	5,863	1,446	1,055	1,498	2,452	3,462	5,402	7,644	9,312
30%	9,811	9,601	8,428	4,565	937	514	1,177	2,185	3,028	4,809	7,272	8,855
40%	9,549	9,369	7,734	2,753	570	406	783	1,403	2,397	3,484	6,003	8,173
50%	9,118	8,800	6,231	1,781	351	267	514	1,075	2,139	3,014	5,252	7,538
60%	8,747	8,357	4,144	797	217	206	316	723	1,804	2,442	4,820	7,164
70%	8,473	8,056	1,856	251	197	194	239	488	1,484	2,243	4,622	7,002
80%	8,043	7,074	940	202	189	189	195	222	949	1,891	4,481	6,761
90%	6,957	3,084	340	189	187	186	187	184	280	1,515	4,102	6,400
Long Term												
Full Simulation Period[b]	8,887	8,107	5,432	2,689	1,009	677	904	1,498	2,415	3,660	5,913	7,773
Water Year Types[c]												
Wet (32%)	7,833	6,691	1,993	596	208	206	274	428	970	1,737	4,299	6,163
Above Normal (16%)	9,564	7,831	5,188	1,319	337	236	365	733	1,694	2,215	4,509	6,968
Below Normal (13%)	8,314	7,234	6,059	3,773	1,345	814	1,055	1,605	2,288	3,197	5,514	7,826
Dry (24%)	9,325	9,173	7,597	4,236	1,380	719	1,062	1,807	2,948	5,018	7,294	8,896
Critical (15%)	10,233	10,495	8,960	5,132	2,549	1,979	2,449	4,032	5,552	7,552	8,997	10,215

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11,705	11,663	9,569	5,052	1,782	1,468	1,727	2,525	4,035	6,427	8,485	9,986
20%	10,368	9,986	7,171	4,034	950	978	1,075	1,987	3,386	5,074	7,505	9,231
30%	10,121	9,585	4,758	3,042	605	424	675	1,614	3,293	4,676	6,975	8,848
40%	9,781	7,463	3,988	1,630	387	319	431	939	2,780	3,601	5,629	8,104
50%	8,583	3,273	3,366	1,222	281	246	321	651	2,291	2,939	4,979	6,741
60%	3,488	2,950	2,905	488	215	208	242	459	1,984	2,219	4,721	3,119
70%	1,470	1,410	1,021	222	198	193	218	303	1,388	2,016	4,472	1,600
80%	1,413	1,219	460	202	191	189	198	218	825	1,814	4,170	1,404
90%	1,295	1,110	222	188	186	187	190	188	273	1,488	3,890	1,324
Long Term												
Full Simulation Period[b]	6,311	5,440	3,967	2,039	804	574	682	1,148	2,424	3,494	5,684	5,571
Water Year Types[c]												
Wet (32%)	4,367	3,175	1,168	437	202	202	224	306	1,015	1,598	4,138	1,371
Above Normal (16%)	7,893	5,516	3,295	850	275	229	264	474	1,874	2,111	4,272	3,103
Below Normal (13%)	4,522	4,157	4,009	2,301	835	670	725	1,189	2,726	3,065	5,071	7,586
Dry (24%)	6,861	6,468	5,682	3,112	1,081	600	739	1,414	2,917	4,887	7,081	8,770
Critical (15%)	9,529	9,725	7,860	4,772	2,188	1,625	1,993	3,221	4,976	7,175	8,795	10,167

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	239	99	-5	-1,775	-1,133	-611	-541	-657	-118	-101	-414	-107
20%	203	162	-2,196	-1,830	-496	-77	-423	-465	-76	-328	-139	-82
30%	310	-16	-3,670	-1,524	-333	-91	-503	-572	266	-134	-297	-7
40%	232	-1,906	-3,745	-1,123	-183	-86	-352	-465	383	118	-373	-69
50%	-535	-5,527	-2,866	-559	-70	-20	-193	-424	152	-75	-273	-797
60%	-5,259	-5,408	-1,239	-309	-2	2	-74	-264	180	-222	-99	-4,045
70%	-7,003	-6,646	-834	-29	1	0	-21	-185	-96	-228	-150	-5,403
80%	-6,630	-5,855	-480	0	2	0	3	-5	-124	-76	-312	-5,357
90%	-5,661	-1,974	-118	0	0	0	2	4	-8	-28	-212	-5,076
Long Term												
Full Simulation Period[b]	-2,576	-2,667	-1,465	-649	-206	-102	-222	-350	10	-166	-230	-2,202
Water Year Types[c]												
Wet (32%)	-3,465	-3,516	-825	-159	-6	-3	-50	-122	45	-139	-161	-4,792
Above Normal (16%)	-1,671	-2,315	-1,893	-470	-61	-7	-101	-259	180	-105	-237	-3,865
Below Normal (13%)	-3,792	-3,077	-2,049	-1,471	-510	-144	-329	-416	438	-133	-443	-240
Dry (24%)	-2,463	-2,705	-1,916	-1,124	-299	-119	-324	-393	-31	-130	-213	-126
Critical (15%)	-705	-770	-1,100	-360	-361	-355	-455	-811	-575	-378	-201	-47

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

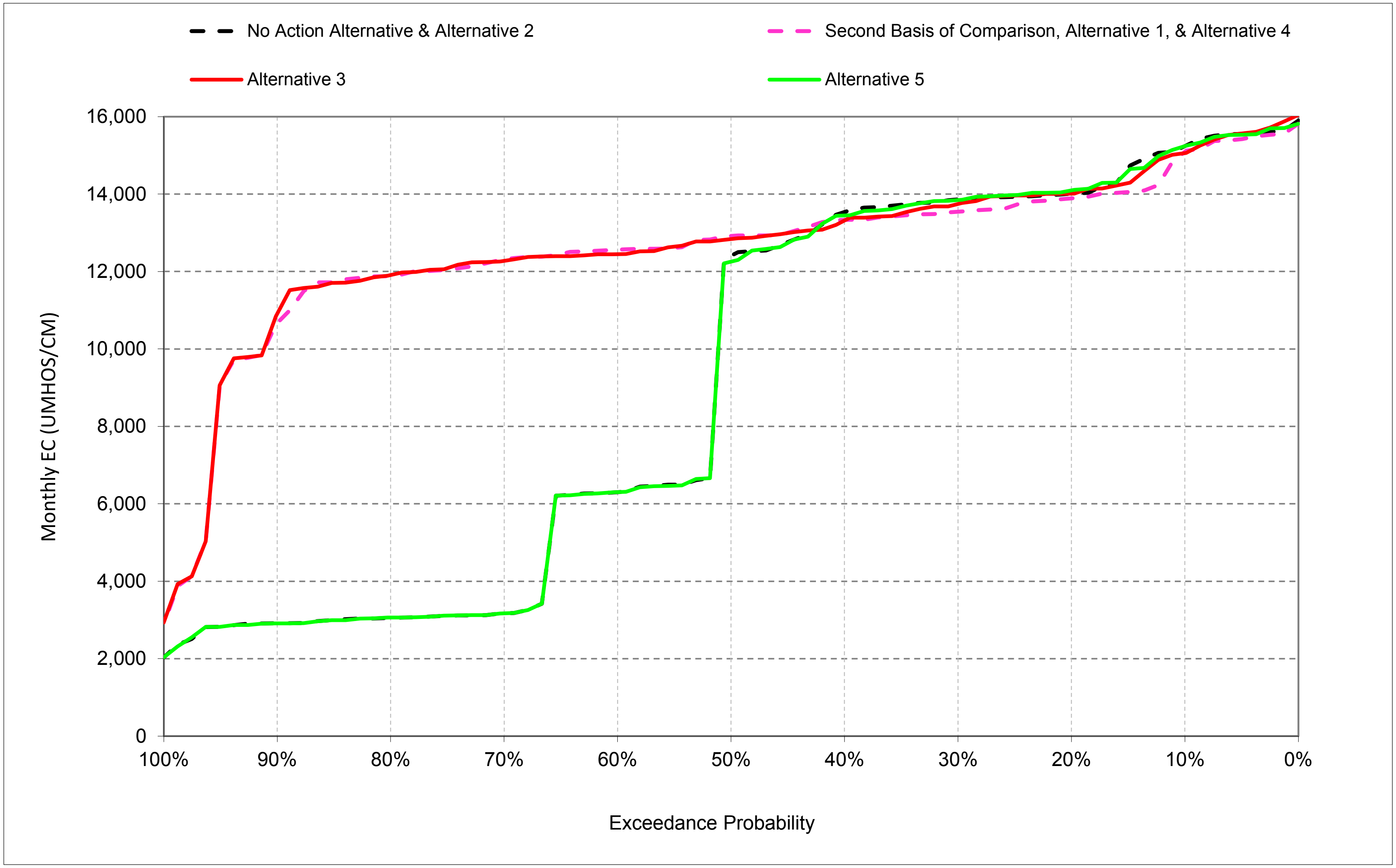
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

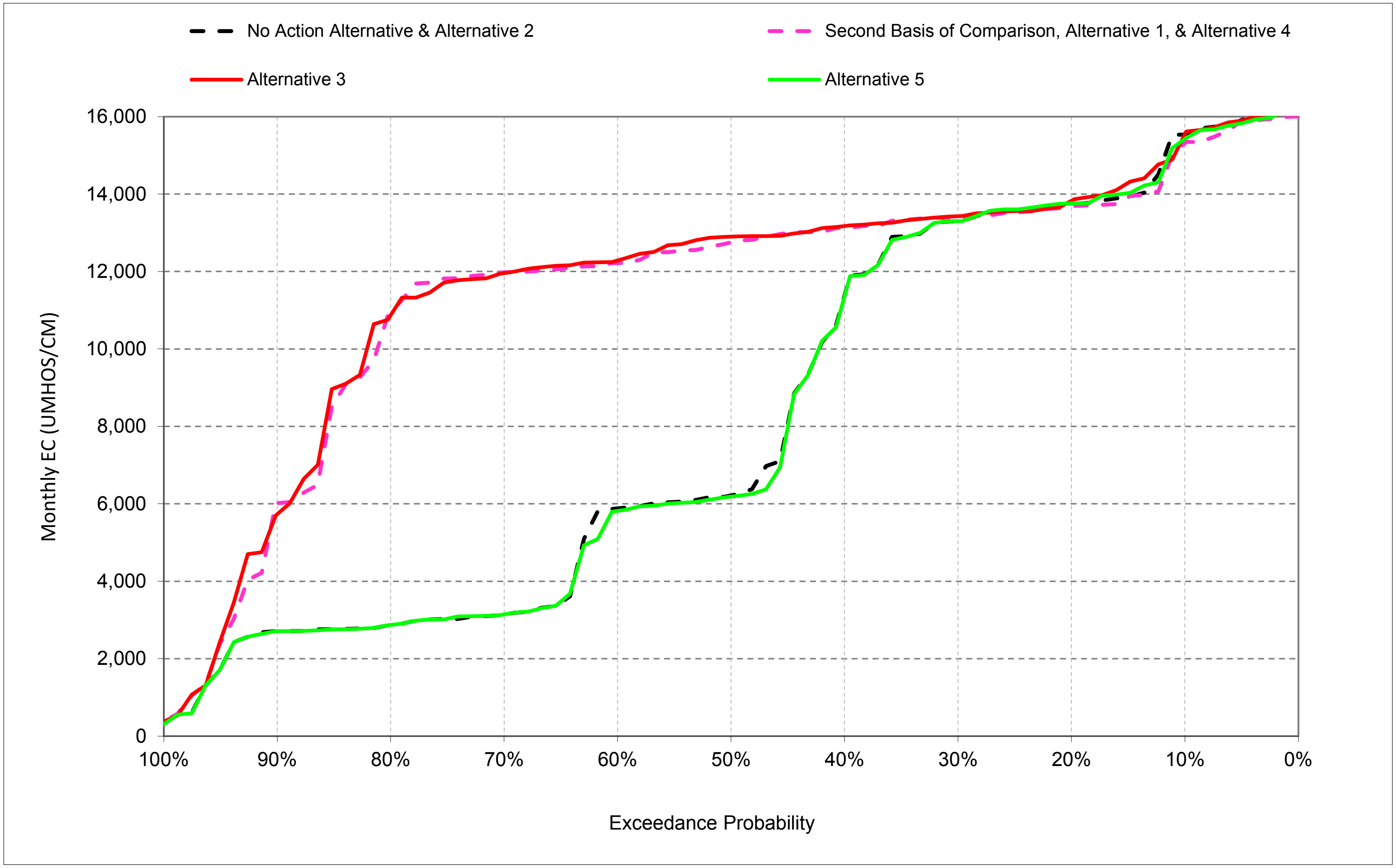
B.5. Sacramento River at Mallard Slough Salinity

Figure 6E.B.5.1. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, October



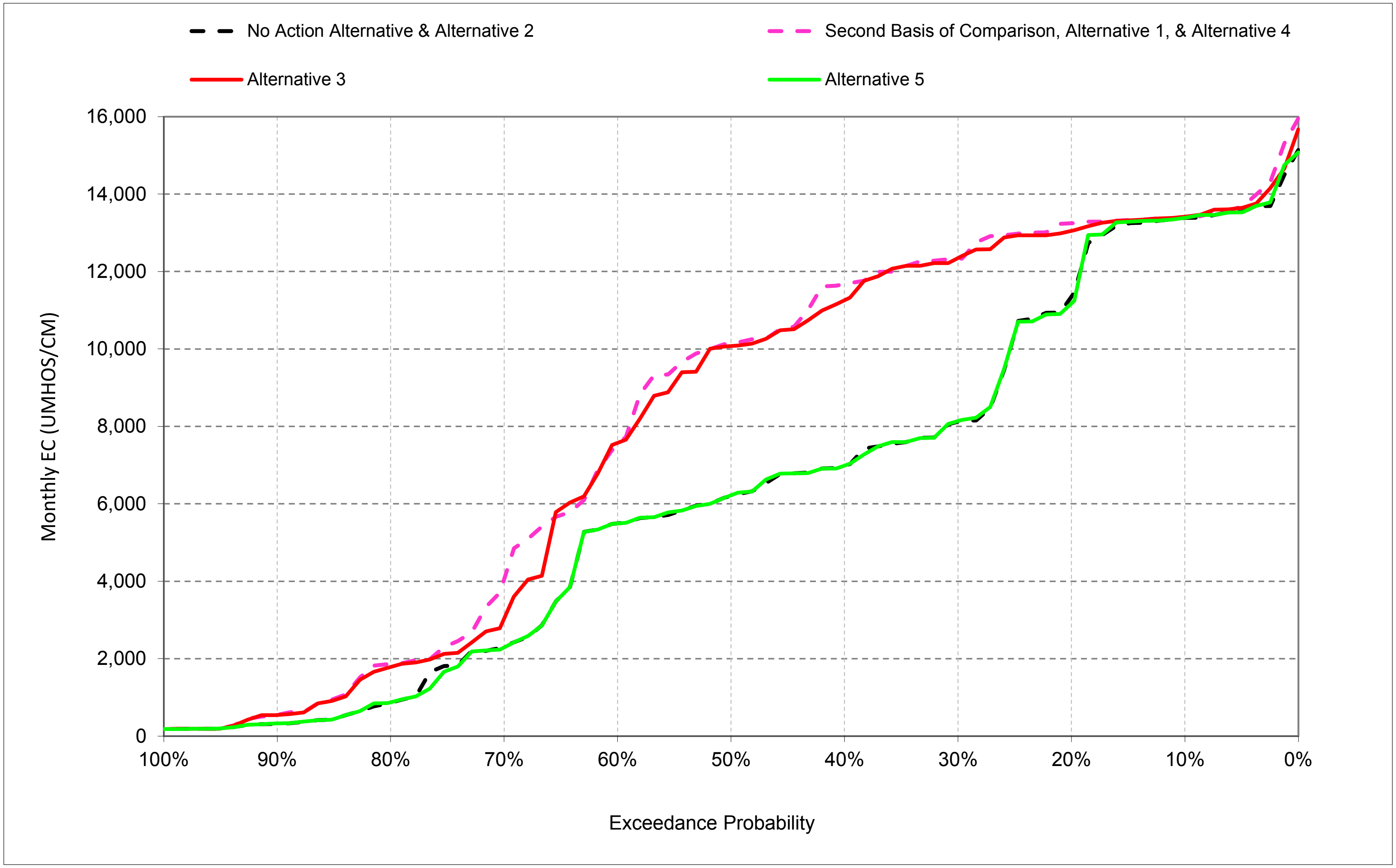
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.2. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, November



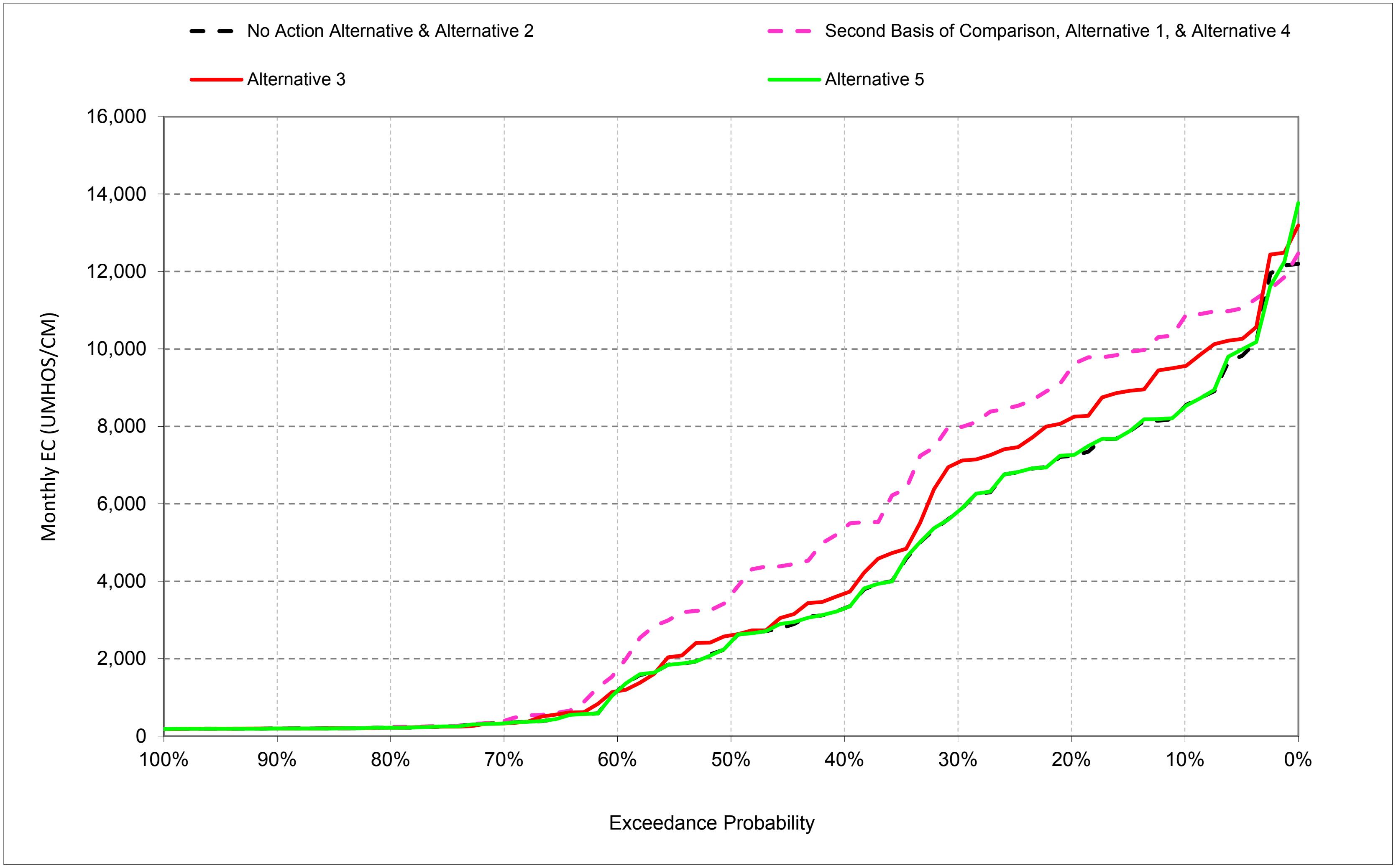
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.3. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, December



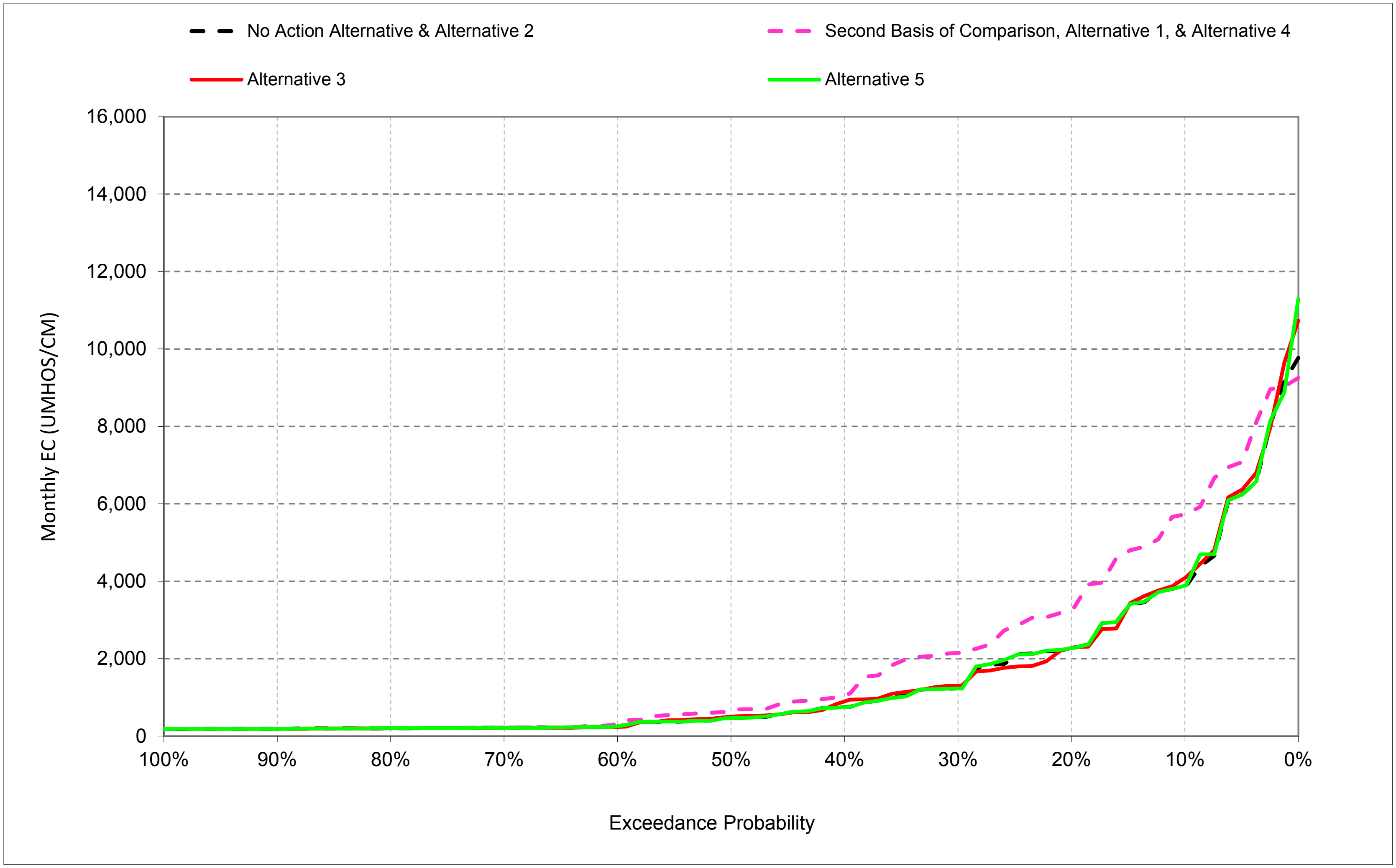
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.4. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, January



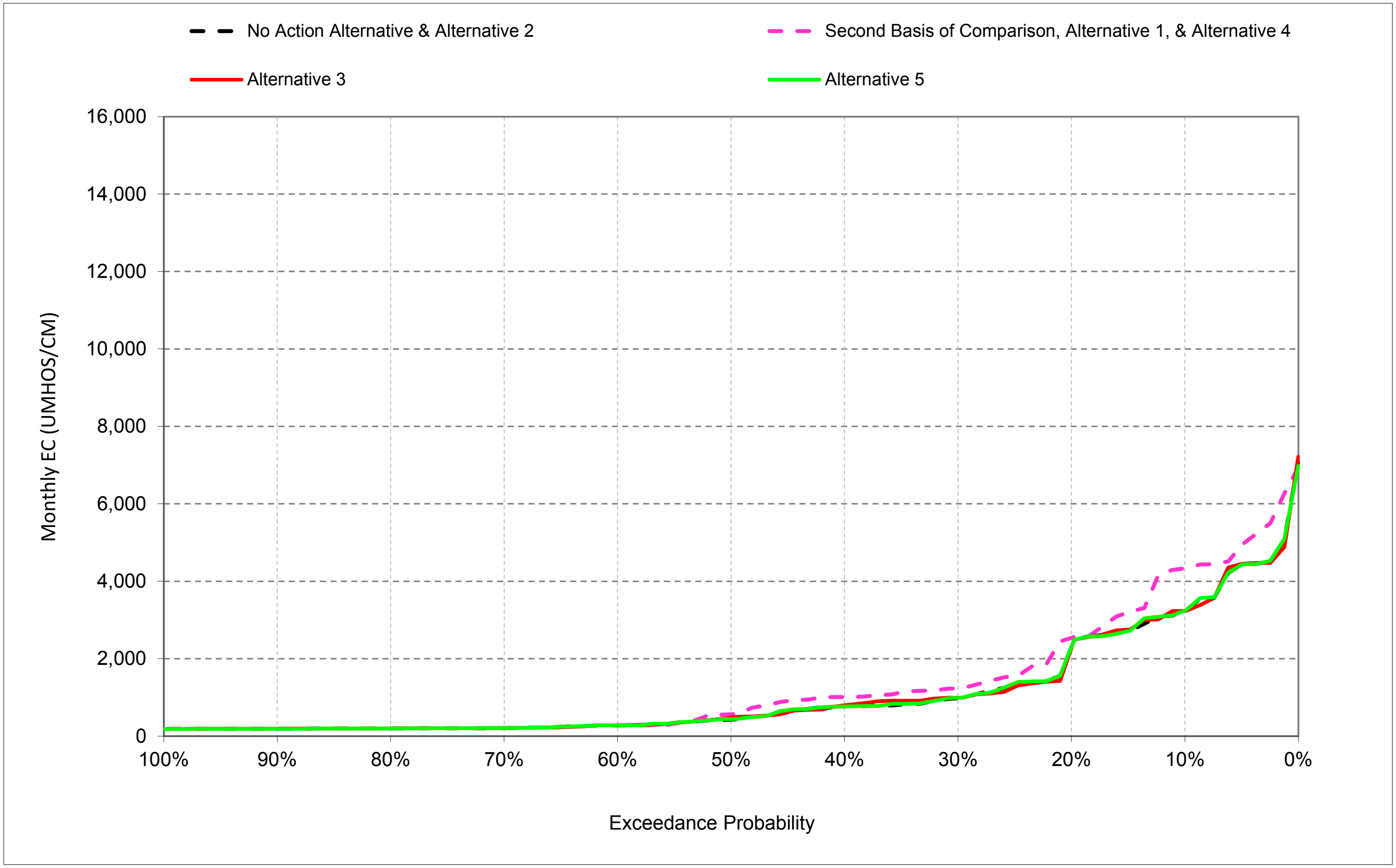
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.5. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, February



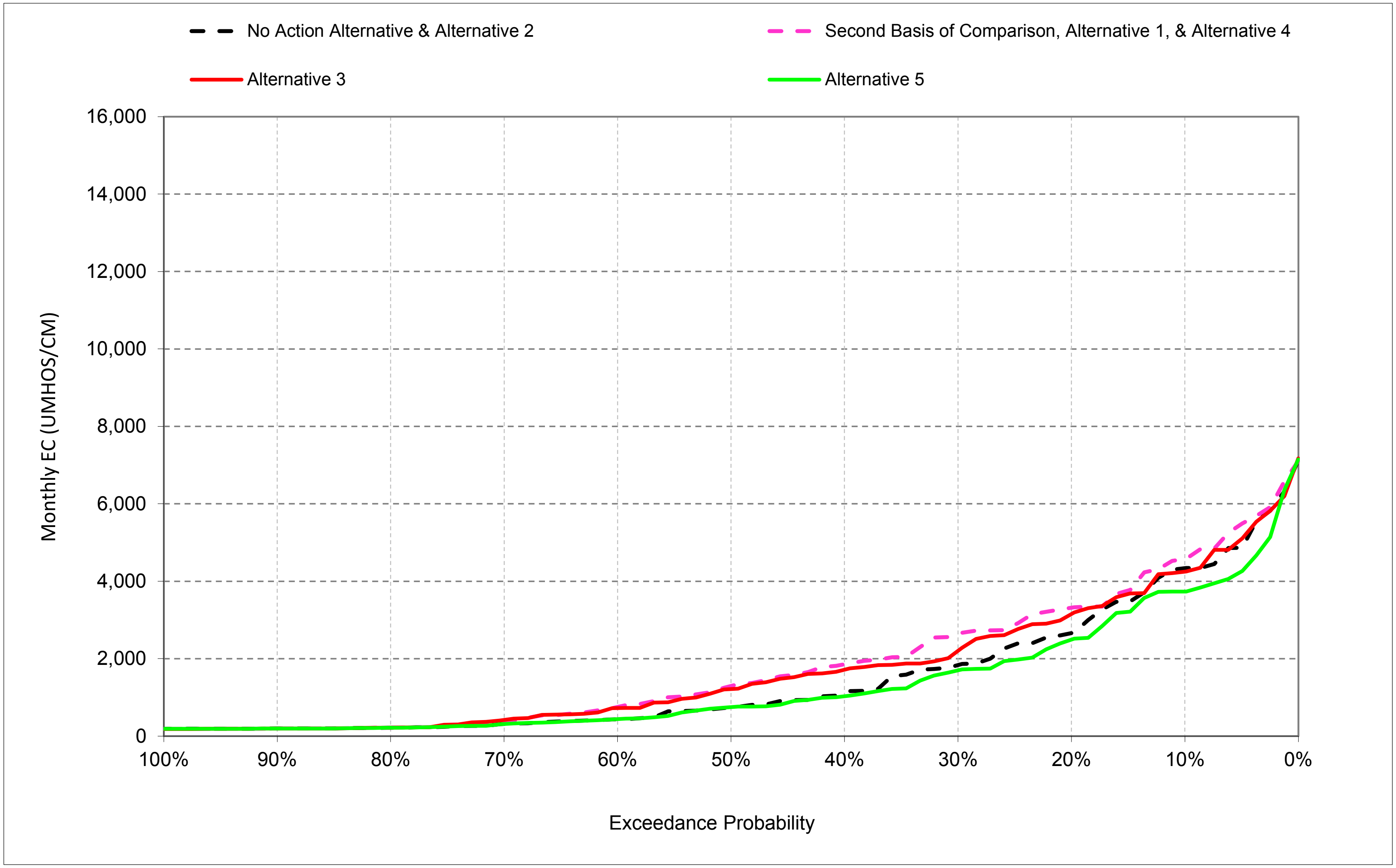
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.6. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, March



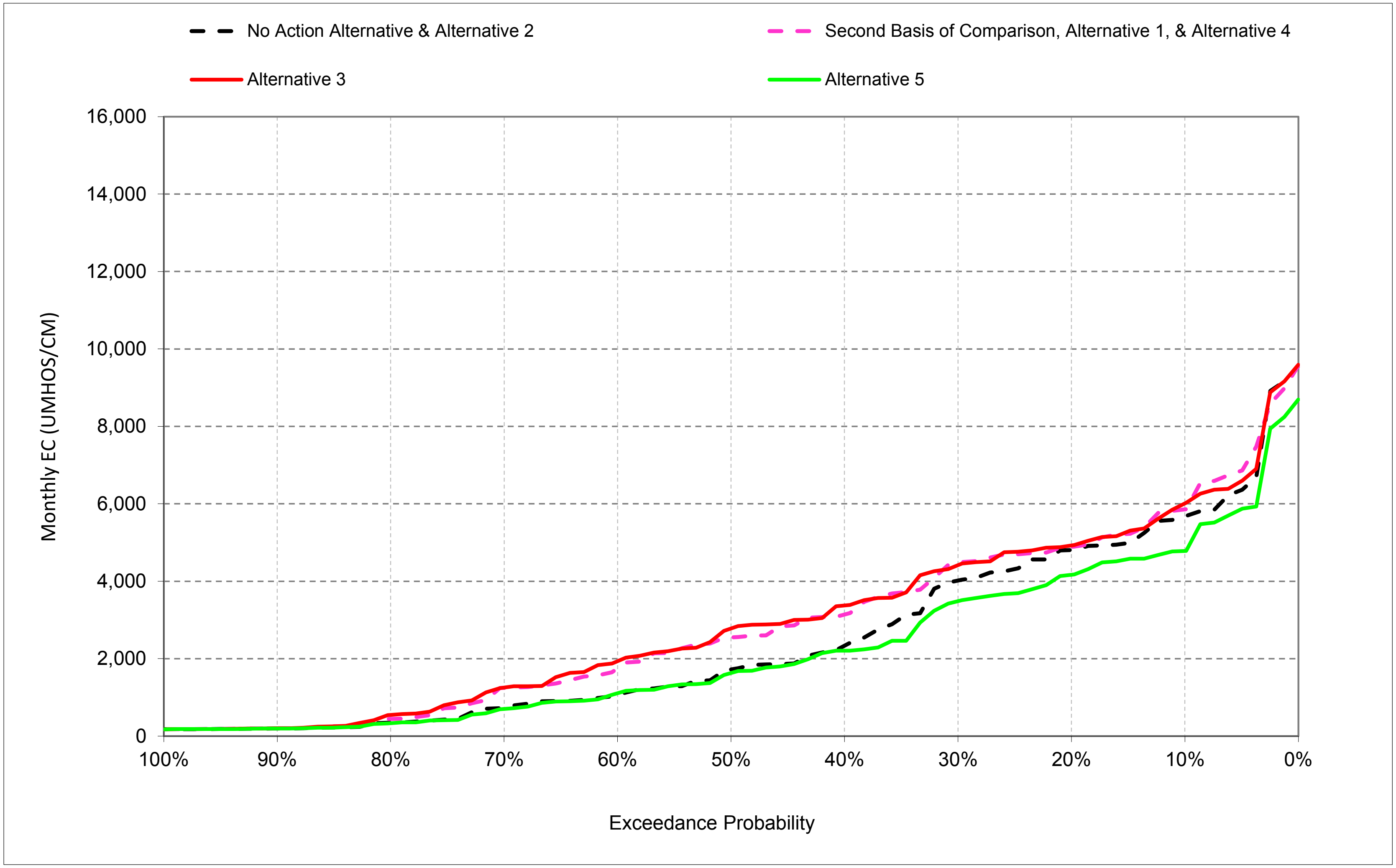
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.7. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, April



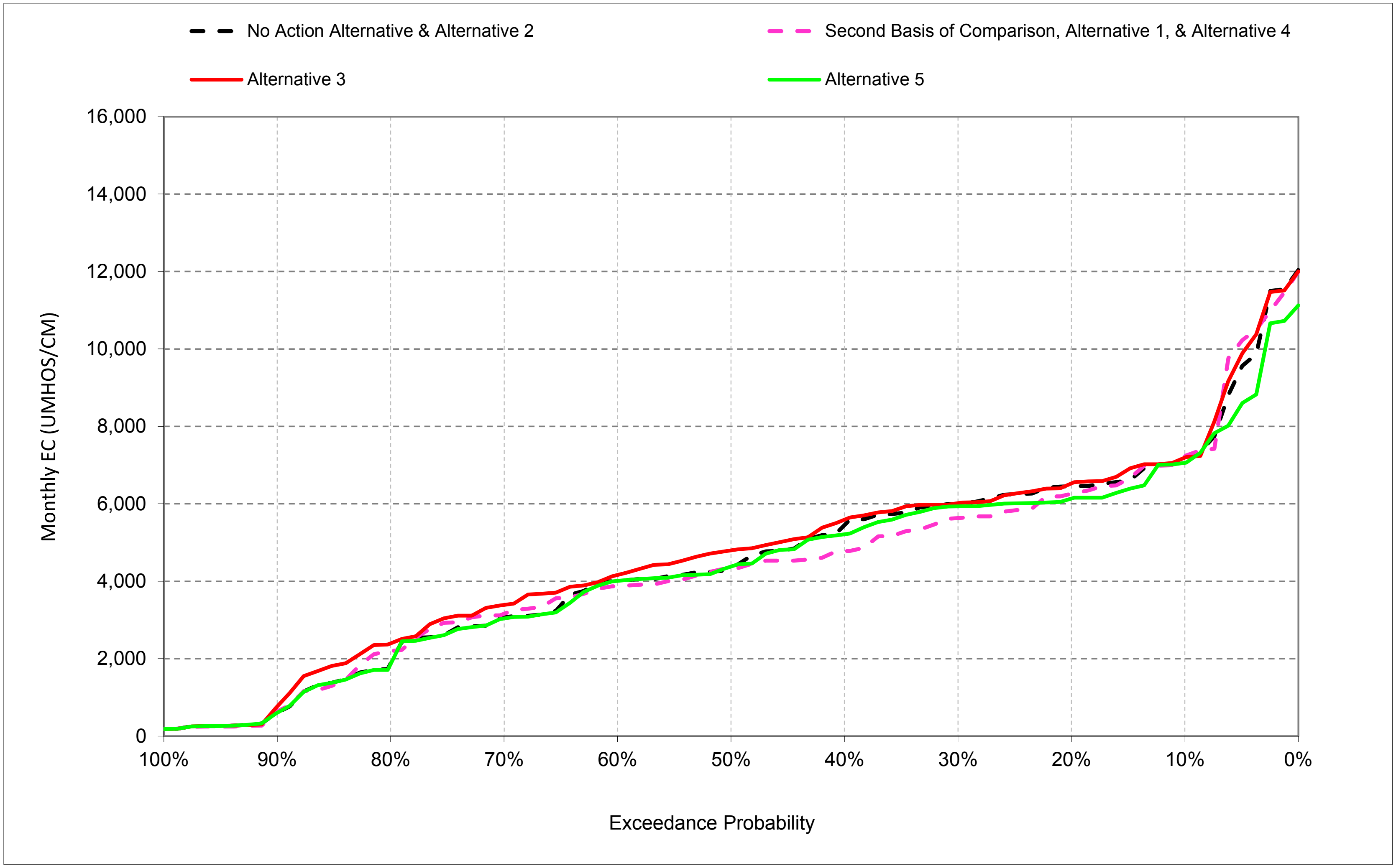
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.8. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, May



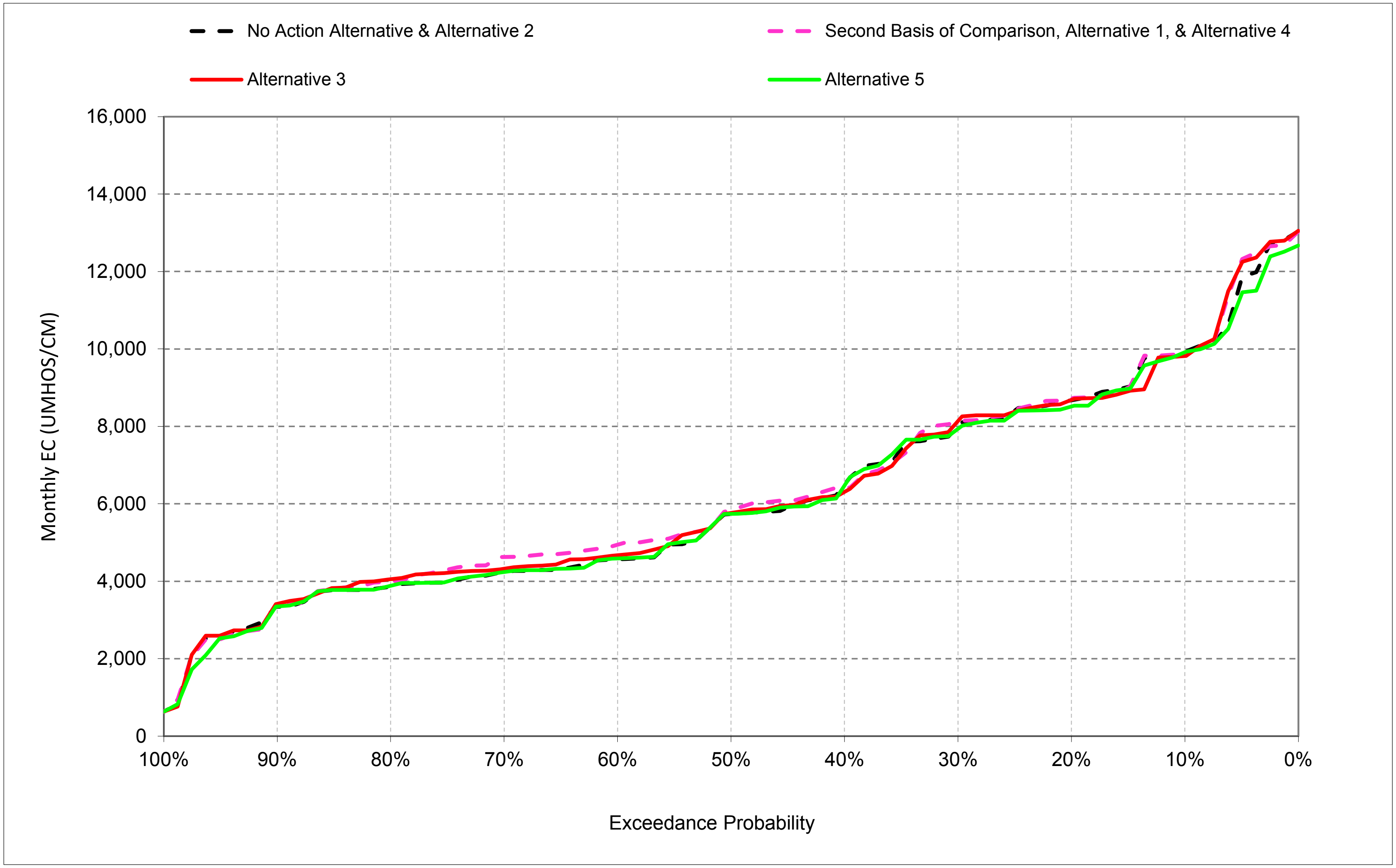
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.9. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, June



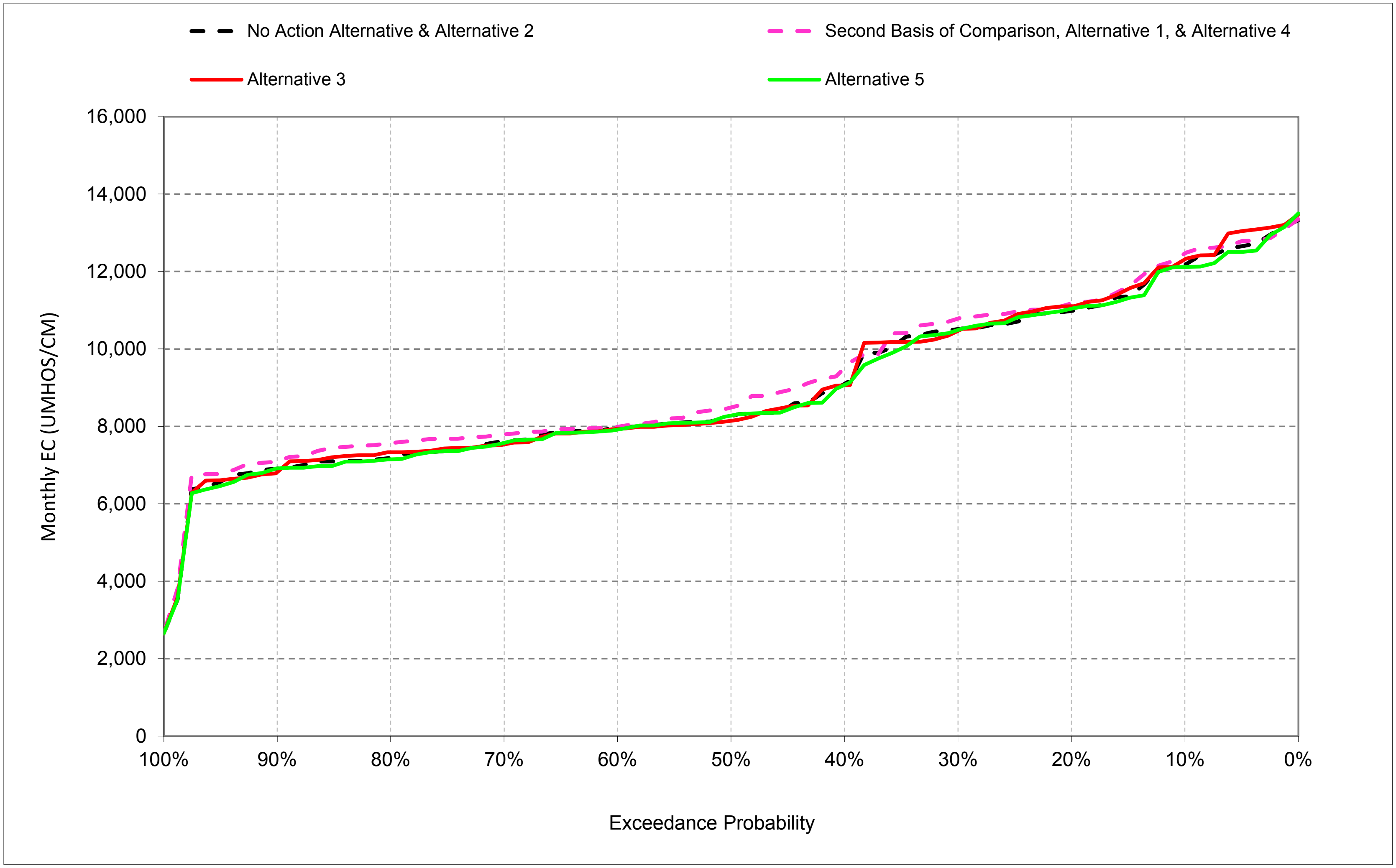
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.10. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, July



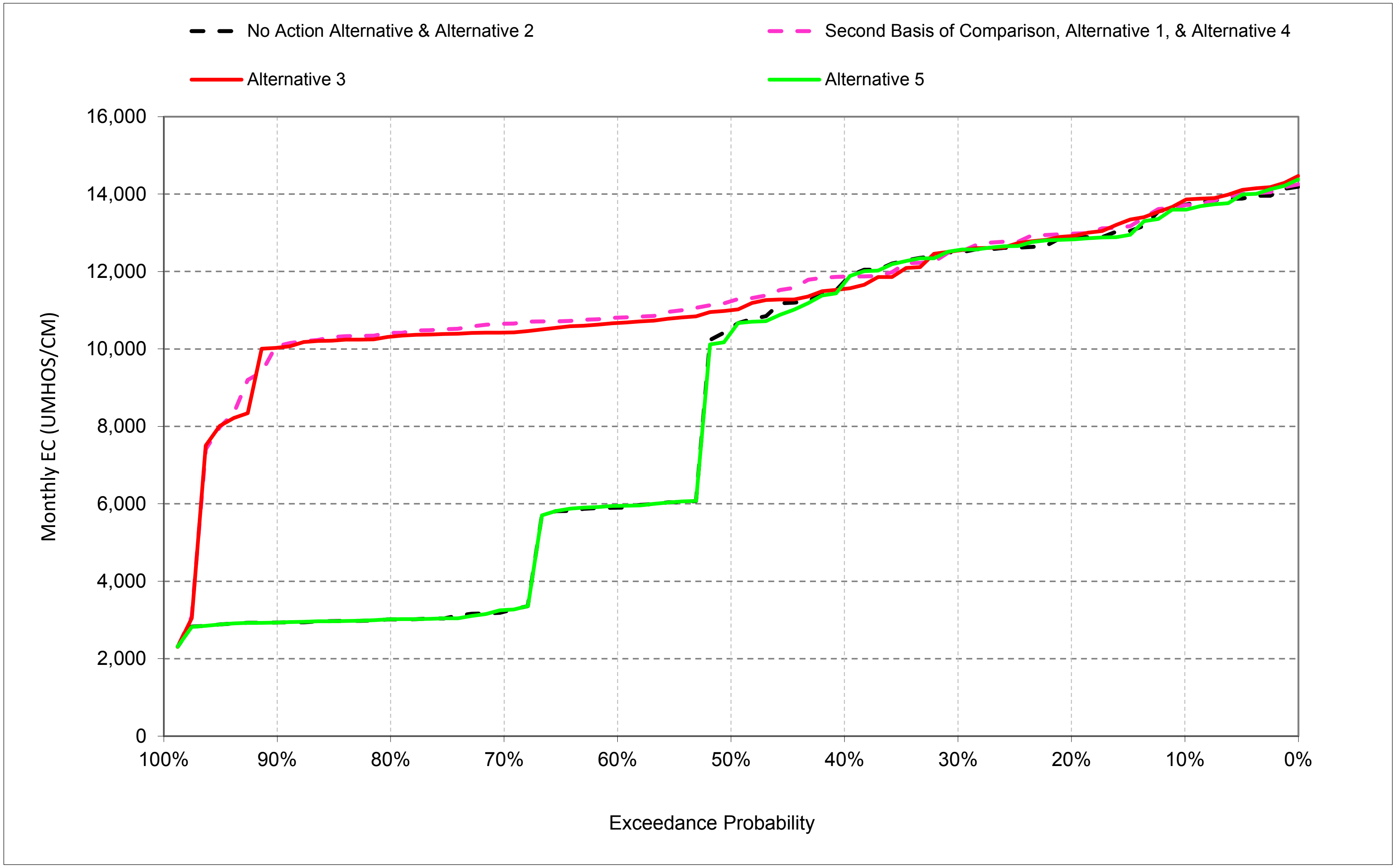
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.11. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.5.12. Sacramento River at Mallard Slough Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.5.1. Sacramento River at Mallard Slough Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,237	15,536	13,384	8,515	3,874	3,239	4,335	5,680	7,198	9,928	12,185	13,719
20%	14,012	13,740	11,351	7,235	2,267	2,304	2,663	4,804	6,453	8,676	10,986	12,881
30%	13,861	13,299	8,120	5,800	1,231	978	1,835	4,016	6,001	7,995	10,513	12,500
40%	13,538	11,380	6,987	3,300	751	768	1,116	2,335	5,450	6,496	9,098	11,747
50%	12,409	6,217	6,205	2,430	463	428	742	1,724	4,356	5,735	8,265	10,544
60%	6,299	5,882	5,494	1,171	259	279	434	1,068	4,011	4,567	7,965	5,899
70%	3,172	3,144	2,322	335	218	209	313	743	3,067	4,239	7,617	3,301
80%	3,053	2,870	865	218	202	197	214	347	1,874	3,867	7,199	3,016
90%	2,914	2,710	319	194	192	192	196	198	601	3,339	6,910	2,938
Long Term												
Full Simulation Period[b]	9,172	8,228	6,310	3,544	1,486	1,142	1,535	2,514	4,524	6,181	8,988	8,454
Water Year Types[c]												
Wet (32%)	6,802	5,359	2,156	746	239	263	337	600	2,026	3,434	7,135	2,988
Above Normal (16%)	11,047	8,470	5,608	1,574	459	352	482	1,112	3,727	4,399	7,324	5,906
Below Normal (13%)	6,911	6,624	6,658	4,288	1,703	1,514	1,817	2,841	5,141	5,934	8,443	11,307
Dry (24%)	9,942	9,655	8,869	5,570	2,142	1,279	1,905	3,351	5,537	8,238	10,656	12,439
Critical (15%)	13,064	13,275	11,485	7,685	4,007	3,337	4,399	6,486	8,542	10,858	12,525	13,801

Alternative 1

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,090	15,314	13,389	10,837	5,727	4,332	4,576	5,857	7,222	9,867	12,466	13,714
20%	13,893	13,680	13,246	9,520	3,298	2,537	3,316	4,889	6,259	8,724	11,178	12,976
30%	13,545	13,389	12,331	7,985	2,148	1,232	2,636	4,475	5,630	8,118	10,782	12,513
40%	13,332	13,129	11,675	5,376	1,062	1,012	1,856	3,141	4,780	6,416	9,510	11,868
50%	12,917	12,752	10,145	3,654	654	562	1,293	2,552	4,332	5,844	8,488	11,234
60%	12,563	12,217	7,519	1,717	333	276	754	1,751	3,874	4,942	7,987	10,807
70%	12,314	11,977	4,052	393	217	210	379	1,247	3,159	4,624	7,792	10,651
80%	11,890	10,939	1,860	234	203	199	224	444	2,199	3,992	7,567	10,415
90%	10,671	6,016	549	195	191	194	195	201	640	3,386	7,097	10,072
Long Term												
Full Simulation Period[b]	12,558	11,604	8,216	4,552	1,923	1,359	1,857	2,909	4,430	6,308	9,200	11,360
Water Year Types[c]												
Wet (32%)	11,338	9,856	3,407	1,042	262	275	480	866	1,996	3,614	7,282	9,584
Above Normal (16%)	13,300	11,306	8,006	2,349	621	377	770	1,688	3,550	4,561	7,621	10,626
Below Normal (13%)	12,105	10,844	9,298	6,338	2,544	1,773	2,346	3,389	4,596	6,053	8,887	11,489
Dry (24%)	13,074	12,921	11,277	7,247	2,789	1,594	2,328	3,716	5,491	8,252	10,831	12,584
Critical (15%)	13,952	14,214	12,773	8,412	4,920	3,998	4,785	6,873	8,734	11,031	12,635	13,844

Alternative 1 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-147	-222	6	2,321	1,852	1,093	240	177	24	-61	281	-5
20%	-119	-60	1,895	2,285	1,031	233	653	84	-193	48	192	95
30%	-315	90	4,211	2,185	916	254	801	459	-372	122	269	12
40%	-206	1,749	4,688	2,076	311	244	740	806	-669	-80	411	121
50%	508	6,536	3,940	1,224	191	134	552	827	-24	110	223	690
60%	6,263	6,335	2,025	546	74	-3	321	683	-137	376	21	4,908
70%	9,142	8,834	1,731	58	0	1	66	504	92	385	175	7,350
80%	8,837	8,069	995	16	1	2	9	97	325	125	369	7,399
90%	7,757	3,307	230	1	-1	2	-1	3	39	48	188	7,134
Long Term												
Full Simulation Period[b]	3,386	3,376	1,907	1,007	437	216	322	395	-94	127	212	2,906
Water Year Types[c]												
Wet (32%)	4,535	4,497	1,251	296	23	12	144	266	-31	180	147	6,596
Above Normal (16%)	2,253	2,837	2,398	776	162	24	287	576	-177	161	297	4,720
Below Normal (13%)	5,194	4,220	2,639	2,050	841	259	530	548	-545	119	444	182
Dry (24%)	3,132	3,266	2,408	1,677	647	316	423	365	-46	15	176	145
Critical (15%)	888	939	1,288	728	914	661	386	387	192	173	110	44

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.5.2. Sacramento River at Mallard Slough Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	15,237	15,536	13,384	8,515	3,874	3,239	4,335	5,680	7,198	9,928	12,185	13,719
20%	14,012	13,740	11,351	7,235	2,267	2,304	2,663	4,804	6,453	8,676	10,986	12,881
30%	13,861	13,299	8,120	5,800	1,231	978	1,835	4,016	6,001	7,995	10,513	12,500
40%	13,538	11,380	6,987	3,300	751	768	1,116	2,335	5,450	6,496	9,098	11,747
50%	12,409	6,217	6,205	2,430	463	428	742	1,724	4,356	5,735	8,265	10,544
60%	6,299	5,882	5,494	1,171	259	279	434	1,068	4,011	4,567	7,965	5,899
70%	3,172	3,144	2,322	335	218	209	313	743	3,067	4,239	7,617	3,301
80%	3,053	2,870	865	218	202	197	214	347	1,874	3,867	7,199	3,016
90%	2,914	2,710	319	194	192	192	196	198	601	3,339	6,910	2,938
Long Term												
Full Simulation Period[b]	9,172	8,228	6,310	3,544	1,486	1,142	1,535	2,514	4,524	6,181	8,988	8,454
Water Year Types[c]												
Wet (32%)	6,802	5,359	2,156	746	239	263	337	600	2,026	3,434	7,135	2,988
Above Normal (16%)	11,047	8,470	5,608	1,574	459	352	482	1,112	3,727	4,399	7,324	5,906
Below Normal (13%)	6,911	6,624	6,658	4,288	1,703	1,514	1,817	2,841	5,141	5,934	8,443	11,307
Dry (24%)	9,942	9,655	8,869	5,570	2,142	1,279	1,905	3,351	5,537	8,238	10,656	12,439
Critical (15%)	13,064	13,275	11,485	7,685	4,007	3,337	4,399	6,486	8,542	10,858	12,525	13,801

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	15,057	15,546	13,418	9,561	4,084	3,235	4,246	6,006	7,191	9,816	12,314	13,839
20%	14,010	13,829	13,051	8,216	2,276	2,279	3,152	4,927	6,524	8,685	11,103	12,914
30%	13,745	13,428	12,346	7,068	1,309	990	2,203	4,416	6,017	8,138	10,465	12,542
40%	13,315	13,176	11,259	3,682	896	795	1,716	3,375	5,588	6,304	9,061	11,552
50%	12,840	12,899	10,075	2,606	500	477	1,215	2,780	4,796	5,766	8,142	11,000
60%	12,448	12,287	7,575	1,162	238	283	724	1,939	4,161	4,674	7,935	10,673
70%	12,276	11,957	3,033	329	215	207	418	1,255	3,390	4,326	7,533	10,424
80%	11,908	10,870	1,784	218	202	198	218	545	2,393	4,051	7,331	10,318
90%	10,908	5,736	545	194	191	193	193	203	769	3,420	6,815	10,079
Long Term												
Full Simulation Period[b]	12,624	11,713	8,056	3,923	1,508	1,146	1,747	2,951	4,715	6,235	9,024	11,274
Water Year Types[c]												
Wet (32%)	11,282	9,923	3,256	836	244	281	481	953	2,268	3,536	7,094	9,531
Above Normal (16%)	13,538	11,404	7,647	1,784	432	345	727	1,769	3,947	4,484	7,437	10,553
Below Normal (13%)	12,284	11,066	9,318	4,963	1,736	1,505	2,183	3,464	5,380	5,934	8,395	11,074
Dry (24%)	13,047	13,005	11,194	6,205	2,134	1,278	2,141	3,771	5,669	8,177	10,724	12,554
Critical (15%)	14,150	14,364	12,508	8,170	4,160	3,340	4,538	6,720	8,645	11,020	12,671	13,879

Alternative 3 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	-180	10	35	1,046	210	-4	-89	326	-7	-112	129	120
20%	-2	89	1,700	981	9	-25	489	123	72	9	117	33
30%	-115	129	4,226	1,268	78	13	368	399	16	143	-48	42
40%	-223	1,796	4,272	382	145	27	600	1,039	138	-193	-38	-195
50%	431	6,682	3,871	175	37	49	474	1,055	440	31	-123	456
60%	6,149	6,405	2,081	-9	-21	4	290	870	150	108	-31	4,774
70%	9,104	8,813	711	-6	-3	-2	105	512	323	87	-84	7,123
80%	8,856	8,000	919	0	0	1	3	199	519	184	132	7,301
90%	7,994	3,027	227	0	-1	1	-3	5	168	81	-94	7,140
Long Term												
Full Simulation Period[b]	3,452	3,485	1,746	378	22	4	212	437	191	55	36	2,820
Water Year Types[c]												
Wet (32%)	4,480	4,564	1,100	90	5	18	144	354	242	102	-42	6,543
Above Normal (16%)	2,491	2,935	2,039	210	-27	-7	245	658	220	85	114	4,647
Below Normal (13%)	5,373	4,442	2,660	676	33	-8	366	623	240	0	-48	-233
Dry (24%)	3,105	3,350	2,325	635	-8	0	236	420	132	-61	69	115
Critical (15%)	1,086	1,089	1,024	485	153	2	139	235	103	162	145	78

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.5.3. Sacramento River at Mallard Slough Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,237	15,536	13,384	8,515	3,874	3,239	4,335	5,680	7,198	9,928	12,185	13,719
20%	14,012	13,740	11,351	7,235	2,267	2,304	2,663	4,804	6,453	8,676	10,986	12,881
30%	13,861	13,299	8,120	5,800	1,231	978	1,835	4,016	6,001	7,995	10,513	12,500
40%	13,538	11,380	6,987	3,300	751	768	1,116	2,335	5,450	6,496	9,098	11,747
50%	12,409	6,217	6,205	2,430	463	428	742	1,724	4,356	5,735	8,265	10,544
60%	6,299	5,882	5,494	1,171	259	279	434	1,068	4,011	4,567	7,965	5,899
70%	3,172	3,144	2,322	335	218	209	313	743	3,067	4,239	7,617	3,301
80%	3,053	2,870	865	218	202	197	214	347	1,874	3,867	7,199	3,016
90%	2,914	2,710	319	194	192	192	196	198	601	3,339	6,910	2,938
Long Term												
Full Simulation Period[b]	9,172	8,228	6,310	3,544	1,486	1,142	1,535	2,514	4,524	6,181	8,988	8,454
Water Year Types[c]												
Wet (32%)	6,802	5,359	2,156	746	239	263	337	600	2,026	3,434	7,135	2,988
Above Normal (16%)	11,047	8,470	5,608	1,574	459	352	482	1,112	3,727	4,399	7,324	5,906
Below Normal (13%)	6,911	6,624	6,658	4,288	1,703	1,514	1,817	2,841	5,141	5,934	8,443	11,307
Dry (24%)	9,942	9,655	8,869	5,570	2,142	1,279	1,905	3,351	5,537	8,238	10,656	12,439
Critical (15%)	13,064	13,275	11,485	7,685	4,007	3,337	4,399	6,486	8,542	10,858	12,525	13,801

Alternative 5

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,241	15,424	13,385	8,505	3,884	3,243	3,734	4,783	7,058	9,914	12,121	13,600
20%	14,093	13,761	11,175	7,258	2,272	2,304	2,491	4,167	6,137	8,512	11,041	12,828
30%	13,846	13,301	8,136	5,800	1,229	993	1,697	3,484	5,932	7,935	10,490	12,552
40%	13,449	11,350	6,985	3,299	748	768	1,031	2,209	5,214	6,470	9,070	11,707
50%	12,255	6,186	6,218	2,436	463	439	746	1,628	4,380	5,741	8,281	10,422
60%	6,301	5,816	5,492	1,168	258	278	439	1,106	4,009	4,587	7,916	5,949
70%	3,171	3,143	2,289	333	218	208	313	703	3,037	4,240	7,575	3,297
80%	3,061	2,871	872	218	202	197	216	331	1,857	3,882	7,148	3,023
90%	2,909	2,711	331	194	192	192	196	198	602	3,351	6,916	2,949
Long Term												
Full Simulation Period[b]	9,163	8,199	6,309	3,570	1,508	1,146	1,397	2,262	4,383	6,124	8,938	8,441
Water Year Types[c]												
Wet (32%)	6,800	5,380	2,158	745	239	263	333	570	2,015	3,396	7,077	2,987
Above Normal (16%)	11,030	8,291	5,547	1,571	459	353	480	1,080	3,707	4,398	7,322	5,925
Below Normal (13%)	6,923	6,630	6,665	4,294	1,702	1,513	1,653	2,579	5,058	5,909	8,397	11,232
Dry (24%)	9,931	9,633	8,899	5,601	2,152	1,282	1,657	2,968	5,362	8,190	10,613	12,432
Critical (15%)	13,035	13,254	11,487	7,809	4,145	3,357	4,027	5,741	7,997	10,656	12,425	13,773

Alternative 5 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4	-112	1	-10	10	4	-602	-896	-140	-14	-64	-119
20%	82	21	-176	23	5	0	-172	-637	-315	-164	55	-53
30%	-14	2	16	0	-3	15	-138	-532	-69	-60	-23	51
40%	-89	-31	-3	-1	-3	0	-85	-126	-236	-27	-29	-40
50%	-154	-31	14	6	0	11	4	-96	24	6	16	-122
60%	2	-66	-2	-3	-1	-1	6	38	-2	20	-50	49
70%	-1	0	-33	-3	0	0	0	-40	-30	1	-43	-4
80%	8	1	7	-1	0	0	1	-16	-17	15	-50	7
90%	-5	2	12	0	0	0	0	0	1	13	6	10
Long Term												
Full Simulation Period[b]	-9	-29	0	26	22	4	-138	-252	-140	-57	-50	-13
Water Year Types[c]												
Wet (32%)	-2	21	2	-1	0	0	-3	-29	-12	-38	-59	-1
Above Normal (16%)	-17	-179	-60	-2	0	0	-2	-32	-20	-1	-2	19
Below Normal (13%)	12	6	6	7	-1	-1	-163	-262	-82	-25	-46	-75
Dry (24%)	-11	-22	30	31	9	3	-248	-383	-175	-48	-43	-7
Critical (15%)	-29	-21	2	124	139	20	-372	-744	-545	-202	-100	-28

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.5.4. Sacramento River at Mallard Slough Salinity, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,090	15,314	13,389	10,837	5,727	4,332	4,576	5,857	7,222	9,867	12,466	13,714
20%	13,893	13,680	13,246	9,520	3,298	2,537	3,316	4,889	6,259	8,724	11,178	12,976
30%	13,545	13,389	12,331	7,985	2,148	1,232	2,636	4,475	5,630	8,118	10,782	12,513
40%	13,332	13,129	11,675	5,376	1,062	1,012	1,856	3,141	4,780	6,416	9,510	11,868
50%	12,917	12,752	10,145	3,654	654	562	1,293	2,552	4,332	5,844	8,488	11,234
60%	12,563	12,217	7,519	1,717	333	276	754	1,751	3,874	4,942	7,987	10,807
70%	12,314	11,977	4,052	393	217	210	379	1,247	3,159	4,624	7,792	10,651
80%	11,890	10,939	1,860	234	203	199	224	444	2,199	3,992	7,567	10,415
90%	10,671	6,016	549	195	191	194	195	201	640	3,386	7,097	10,072
Long Term												
Full Simulation Period[b]	12,558	11,604	8,216	4,552	1,923	1,359	1,857	2,909	4,430	6,308	9,200	11,360
Water Year Types[c]												
Wet (32%)	11,338	9,856	3,407	1,042	262	275	480	866	1,996	3,614	7,282	9,584
Above Normal (16%)	13,300	11,306	8,006	2,349	621	377	770	1,688	3,550	4,561	7,621	10,626
Below Normal (13%)	12,105	10,844	9,298	6,338	2,544	1,773	2,346	3,389	4,596	6,053	8,887	11,489
Dry (24%)	13,074	12,921	11,277	7,247	2,789	1,594	2,328	3,716	5,491	8,252	10,831	12,584
Critical (15%)	13,952	14,214	12,773	8,412	4,920	3,998	4,785	6,873	8,734	11,031	12,635	13,844

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,237	15,536	13,384	8,515	3,874	3,239	4,335	5,680	7,198	9,928	12,185	13,719
20%	14,012	13,740	11,351	7,235	2,267	2,304	2,663	4,804	6,453	8,676	10,986	12,881
30%	13,861	13,299	8,120	5,800	1,231	978	1,835	4,016	6,001	7,995	10,513	12,500
40%	13,538	11,380	6,987	3,300	751	768	1,116	2,335	5,450	6,496	9,098	11,747
50%	12,409	6,217	6,205	2,430	463	428	742	1,724	4,356	5,735	8,265	10,544
60%	6,299	5,882	5,494	1,171	259	279	434	1,068	4,011	4,567	7,965	5,899
70%	3,172	3,144	2,322	335	218	209	313	743	3,067	4,239	7,617	3,301
80%	3,053	2,870	865	218	202	197	214	347	1,874	3,867	7,199	3,016
90%	2,914	2,710	319	194	192	192	196	198	601	3,339	6,910	2,938
Long Term												
Full Simulation Period[b]	9,172	8,228	6,310	3,544	1,486	1,142	1,535	2,514	4,524	6,181	8,988	8,454
Water Year Types[c]												
Wet (32%)	6,802	5,359	2,156	746	239	263	337	600	2,026	3,434	7,135	2,988
Above Normal (16%)	11,047	8,470	5,608	1,574	459	352	482	1,112	3,727	4,399	7,324	5,906
Below Normal (13%)	6,911	6,624	6,658	4,288	1,703	1,514	1,817	2,841	5,141	5,934	8,443	11,307
Dry (24%)	9,942	9,655	8,869	5,570	2,142	1,279	1,905	3,351	5,537	8,238	10,656	12,439
Critical (15%)	13,064	13,275	11,485	7,685	4,007	3,337	4,399	6,486	8,542	10,858	12,525	13,801

No Action Alternative minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	147	222	-6	-2,321	-1,852	-1,093	-240	-177	-24	61	-281	5
20%	119	60	-1,895	-2,285	-1,031	-233	-653	-84	193	-48	-192	-95
30%	315	-90	-4,211	-2,185	-916	-254	-801	-459	372	-122	-269	-12
40%	206	-1,749	-4,688	-2,076	-311	-244	-740	-806	669	80	-411	-121
50%	-508	-6,536	-3,940	-1,224	-191	-134	-552	-827	24	-110	-223	-690
60%	-6,263	-6,335	-2,025	-546	-74	3	-321	-683	137	-376	-21	-4,908
70%	-9,142	-8,834	-1,731	-58	0	-1	-66	-504	-92	-385	-175	-7,350
80%	-8,837	-8,069	-995	-16	-1	-2	-9	-97	-325	-125	-369	-7,399
90%	-7,757	-3,307	-230	-1	1	-2	1	-3	-39	-48	-188	-7,134
Long Term												
Full Simulation Period[b]	-3,386	-3,376	-1,907	-1,007	-437	-216	-322	-395	94	-127	-212	-2,906
Water Year Types[c]												
Wet (32%)	-4,535	-4,497	-1,251	-296	-23	-12	-144	-266	31	-180	-147	-6,596
Above Normal (16%)	-2,253	-2,837	-2,398	-776	-162	-24	-287	-576	177	-161	-297	-4,720
Below Normal (13%)	-5,194	-4,220	-2,639	-2,050	-841	-259	-530	-548	545	-119	-444	-182
Dry (24%)	-3,132	-3,266	-2,408	-1,677	-647	-316	-423	-365	46	-15	-176	-145
Critical (15%)	-888	-939	-1,288	-728	-914	-661	-386	-387	-192	-173	-110	-44

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.5.5. Sacramento River at Mallard Slough Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,090	15,314	13,389	10,837	5,727	4,332	4,576	5,857	7,222	9,867	12,466	13,714
20%	13,893	13,680	13,246	9,520	3,298	2,537	3,316	4,889	6,259	8,724	11,178	12,976
30%	13,545	13,389	12,331	7,985	2,148	1,232	2,636	4,475	5,630	8,118	10,782	12,513
40%	13,332	13,129	11,675	5,376	1,062	1,012	1,856	3,141	4,780	6,416	9,510	11,868
50%	12,917	12,752	10,145	3,654	654	562	1,293	2,552	4,332	5,844	8,488	11,234
60%	12,563	12,217	7,519	1,717	333	276	754	1,751	3,874	4,942	7,987	10,807
70%	12,314	11,977	4,052	393	217	210	379	1,247	3,159	4,624	7,792	10,651
80%	11,890	10,939	1,860	234	203	199	224	444	2,199	3,992	7,567	10,415
90%	10,671	6,016	549	195	191	194	195	201	640	3,386	7,097	10,072
Long Term												
Full Simulation Period[b]	12,558	11,604	8,216	4,552	1,923	1,359	1,857	2,909	4,430	6,308	9,200	11,360
Water Year Types[c]												
Wet (32%)	11,338	9,856	3,407	1,042	262	275	480	866	1,996	3,614	7,282	9,584
Above Normal (16%)	13,300	11,306	8,006	2,349	621	377	770	1,688	3,550	4,561	7,621	10,626
Below Normal (13%)	12,105	10,844	9,298	6,338	2,544	1,773	2,346	3,389	4,596	6,053	8,887	11,489
Dry (24%)	13,074	12,921	11,277	7,247	2,789	1,594	2,328	3,716	5,491	8,252	10,831	12,584
Critical (15%)	13,952	14,214	12,773	8,412	4,920	3,998	4,785	6,873	8,734	11,031	12,635	13,844

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,057	15,546	13,418	9,561	4,084	3,235	4,246	6,006	7,191	9,816	12,314	13,839
20%	14,010	13,829	13,051	8,216	2,276	2,279	3,152	4,927	6,524	8,685	11,103	12,914
30%	13,745	13,428	12,346	7,068	1,309	990	2,203	4,416	6,017	8,138	10,465	12,542
40%	13,315	13,176	11,259	3,682	896	795	1,716	3,375	5,588	6,304	9,061	11,552
50%	12,840	12,899	10,075	2,606	500	477	1,215	2,780	4,796	5,766	8,142	11,000
60%	12,448	12,287	7,575	1,162	238	283	724	1,939	4,161	4,674	7,935	10,673
70%	12,276	11,957	3,033	329	215	207	418	1,255	3,390	4,326	7,533	10,424
80%	11,908	10,870	1,784	218	202	198	218	545	2,393	4,051	7,331	10,318
90%	10,908	5,736	545	194	191	193	193	203	769	3,420	6,815	10,079
Long Term												
Full Simulation Period[b]	12,624	11,713	8,056	3,923	1,508	1,146	1,747	2,951	4,715	6,235	9,024	11,274
Water Year Types[c]												
Wet (32%)	11,282	9,923	3,256	836	244	281	481	953	2,268	3,536	7,094	9,531
Above Normal (16%)	13,538	11,404	7,647	1,784	432	345	727	1,769	3,947	4,484	7,437	10,553
Below Normal (13%)	12,284	11,066	9,318	4,963	1,736	1,505	2,183	3,464	5,380	5,934	8,395	11,074
Dry (24%)	13,047	13,005	11,194	6,205	2,134	1,278	2,141	3,771	5,669	8,177	10,724	12,554
Critical (15%)	14,150	14,364	12,508	8,170	4,160	3,340	4,538	6,720	8,645	11,020	12,671	13,879

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-33	232	29	-1,276	-1,643	-1,097	-329	149	-31	-51	-152	125
20%	117	149	-195	-1,304	-1,022	-258	-164	38	265	-39	-75	-62
30%	200	39	15	-917	-839	-241	-433	-59	388	20	-317	29
40%	-17	47	-416	-1,694	-165	-217	-140	234	807	-112	-449	-316
50%	-77	147	-70	-1,048	-154	-85	-78	228	464	-78	-346	-234
60%	-115	70	57	-555	-95	7	-31	188	287	-268	-52	-134
70%	-39	-21	-1,019	-64	-3	-3	39	8	232	-298	-259	-227
80%	18	-69	-76	-16	-1	-1	-6	102	194	59	-237	-97
90%	237	-280	-4	-1	0	-1	-1	2	130	34	-282	6
Long Term												
Full Simulation Period[b]	66	109	-161	-629	-415	-212	-110	42	285	-73	-176	-86
Water Year Types[c]												
Wet (32%)	-56	67	-151	-206	-18	6	0	87	273	-78	-188	-53
Above Normal (16%)	238	98	-359	-565	-189	-31	-43	82	398	-77	-183	-73
Below Normal (13%)	179	222	20	-1,374	-808	-268	-163	75	785	-119	-492	-415
Dry (24%)	-27	83	-83	-1,042	-655	-316	-187	55	178	-76	-107	-30
Critical (15%)	198	150	-264	-243	-761	-658	-247	-153	-89	-11	35	35

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.5.6. Sacramento River at Mallard Slough Salinity, Monthly EC

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	15,090	15,314	13,389	10,837	5,727	4,332	4,576	5,857	7,222	9,867	12,466	13,714
20%	13,893	13,680	13,246	9,520	3,298	2,537	3,316	4,889	6,259	8,724	11,178	12,976
30%	13,545	13,389	12,331	7,985	2,148	1,232	2,636	4,475	5,630	8,118	10,782	12,513
40%	13,332	13,129	11,675	5,376	1,062	1,012	1,856	3,141	4,780	6,416	9,510	11,868
50%	12,917	12,752	10,145	3,654	654	562	1,293	2,552	4,332	5,844	8,488	11,234
60%	12,563	12,217	7,519	1,717	333	276	754	1,751	3,874	4,942	7,987	10,807
70%	12,314	11,977	4,052	393	217	210	379	1,247	3,159	4,624	7,792	10,651
80%	11,890	10,939	1,860	234	203	199	224	444	2,199	3,992	7,567	10,415
90%	10,671	6,016	549	195	191	194	195	201	640	3,386	7,097	10,072
Long Term												
Full Simulation Period[b]	12,558	11,604	8,216	4,552	1,923	1,359	1,857	2,909	4,430	6,308	9,200	11,360
Water Year Types[c]												
Wet (32%)	11,338	9,856	3,407	1,042	262	275	480	866	1,996	3,614	7,282	9,584
Above Normal (16%)	13,300	11,306	8,006	2,349	621	377	770	1,688	3,550	4,561	7,621	10,626
Below Normal (13%)	12,105	10,844	9,298	6,338	2,544	1,773	2,346	3,389	4,596	6,053	8,887	11,489
Dry (24%)	13,074	12,921	11,277	7,247	2,789	1,594	2,328	3,716	5,491	8,252	10,831	12,584
Critical (15%)	13,952	14,214	12,773	8,412	4,920	3,998	4,785	6,873	8,734	11,031	12,635	13,844

Alternative 5

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	15,241	15,424	13,385	8,505	3,884	3,243	3,734	4,783	7,058	9,914	12,121	13,600
20%	14,093	13,761	11,175	7,258	2,272	2,304	2,491	4,167	6,137	8,512	11,041	12,828
30%	13,846	13,301	8,136	5,800	1,229	993	1,697	3,484	5,932	7,935	10,490	12,552
40%	13,449	11,350	6,985	3,299	748	768	1,031	2,209	5,214	6,470	9,070	11,707
50%	12,255	6,186	6,218	2,436	463	439	746	1,628	4,380	5,741	8,281	10,422
60%	6,301	5,816	5,492	1,168	258	278	439	1,106	4,009	4,587	7,916	5,949
70%	3,171	3,143	2,289	333	218	208	313	703	3,037	4,240	7,575	3,297
80%	3,061	2,871	872	218	202	197	216	331	1,857	3,882	7,148	3,023
90%	2,909	2,711	331	194	192	192	196	198	602	3,351	6,916	2,949
Long Term												
Full Simulation Period[b]	9,163	8,199	6,309	3,570	1,508	1,146	1,397	2,262	4,383	6,124	8,938	8,441
Water Year Types[c]												
Wet (32%)	6,800	5,380	2,158	745	239	263	333	570	2,015	3,396	7,077	2,987
Above Normal (16%)	11,030	8,291	5,547	1,571	459	353	480	1,080	3,707	4,398	7,322	5,925
Below Normal (13%)	6,923	6,630	6,665	4,294	1,702	1,513	1,653	2,579	5,058	5,909	8,397	11,232
Dry (24%)	9,931	9,633	8,899	5,601	2,152	1,282	1,657	2,968	5,362	8,190	10,613	12,432
Critical (15%)	13,035	13,254	11,487	7,809	4,145	3,357	4,027	5,741	7,997	10,656	12,425	13,773

Alternative 5 minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	151	109	-4	-2,331	-1,843	-1,088	-842	-1,073	-164	47	-345	-114
20%	200	81	-2,070	-2,262	-1,026	-232	-825	-722	-122	-212	-137	-148
30%	301	-88	-4,195	-2,185	-919	-238	-939	-991	303	-183	-292	39
40%	117	-1,780	-4,690	-2,077	-313	-244	-824	-932	433	54	-440	-161
50%	-662	-6,566	-3,927	-1,217	-192	-123	-548	-924	48	-103	-207	-812
60%	-6,262	-6,401	-2,027	-548	-75	2	-315	-645	135	-355	-71	-4,859
70%	-9,144	-8,834	-1,763	-60	1	-1	-66	-544	-121	-383	-218	-7,354
80%	-8,829	-8,068	-988	-17	-1	-2	-8	-113	-342	-110	-419	-7,391
90%	-7,762	-3,305	-218	-1	1	-2	1	-3	-38	-35	-181	-7,124
Long Term												
Full Simulation Period[b]	-3,395	-3,405	-1,907	-981	-415	-212	-460	-647	-46	-184	-262	-2,919
Water Year Types[c]												
Wet (32%)	-4,538	-4,476	-1,249	-296	-23	-12	-147	-296	19	-218	-205	-6,597
Above Normal (16%)	-2,270	-3,016	-2,459	-778	-162	-24	-290	-608	157	-163	-299	-4,701
Below Normal (13%)	-5,182	-4,215	-2,633	-2,044	-843	-260	-693	-810	462	-144	-490	-257
Dry (24%)	-3,143	-3,288	-2,378	-1,646	-637	-312	-671	-749	-130	-63	-219	-152
Critical (15%)	-917	-960	-1,286	-603	-775	-640	-758	-1,132	-738	-375	-210	-71

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

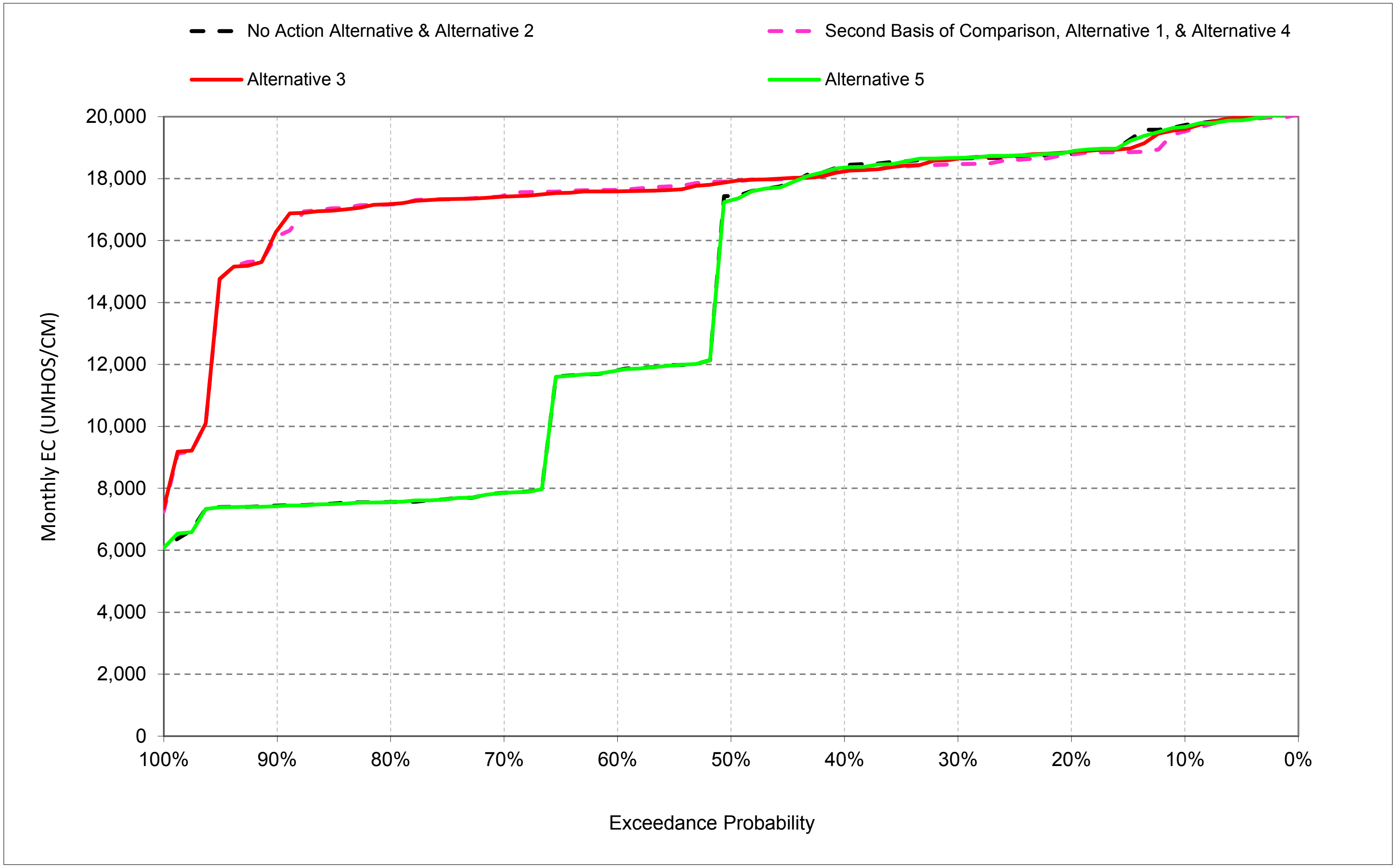
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

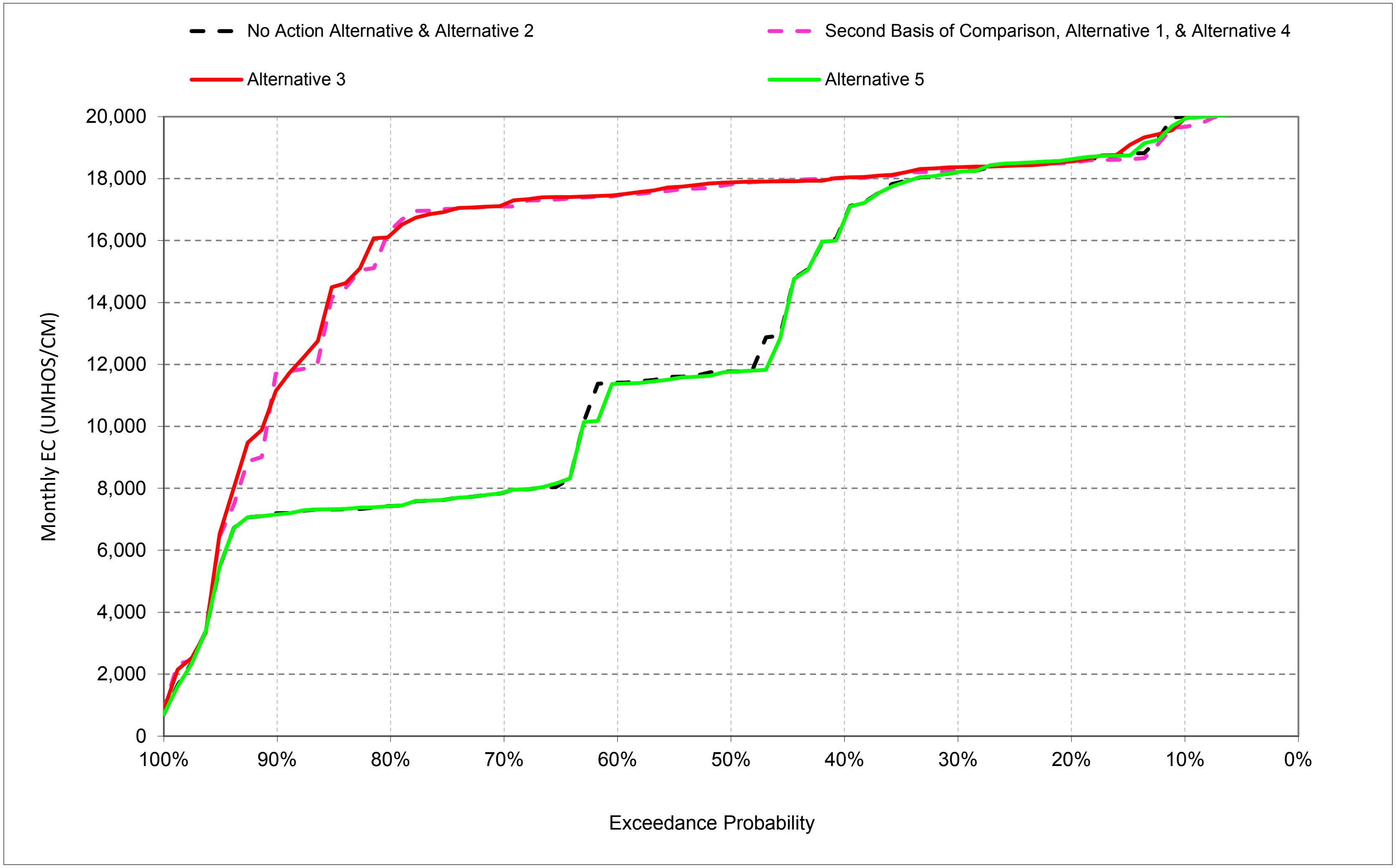
B.6. Sacramento River at Port Chicago Salinity

Figure 6E.B.6.1. Sacramento River at Port Chicago Salinity, Electrical Conductivity, October



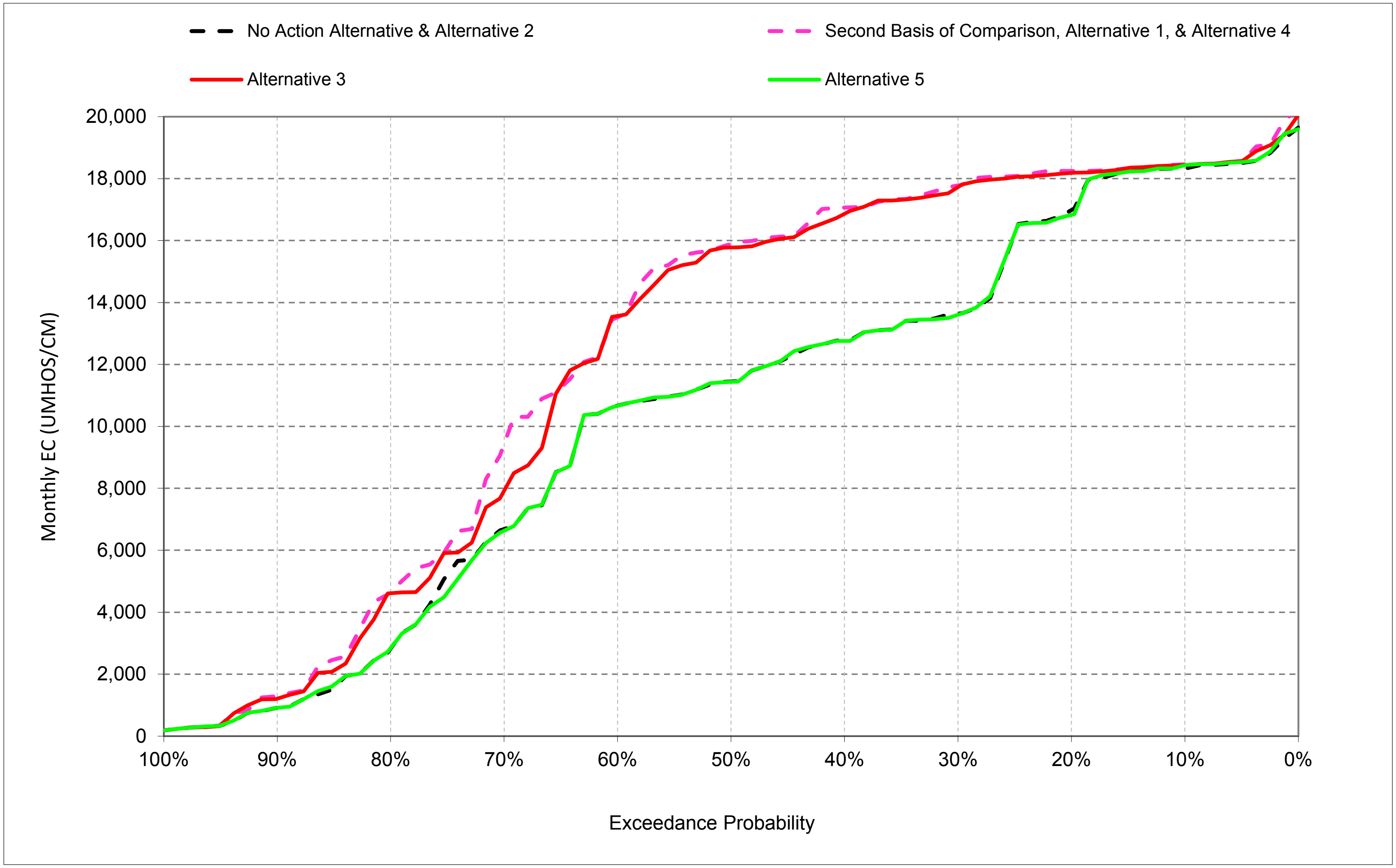
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.2. Sacramento River at Port Chicago Salinity, Electrical Conductivity, November



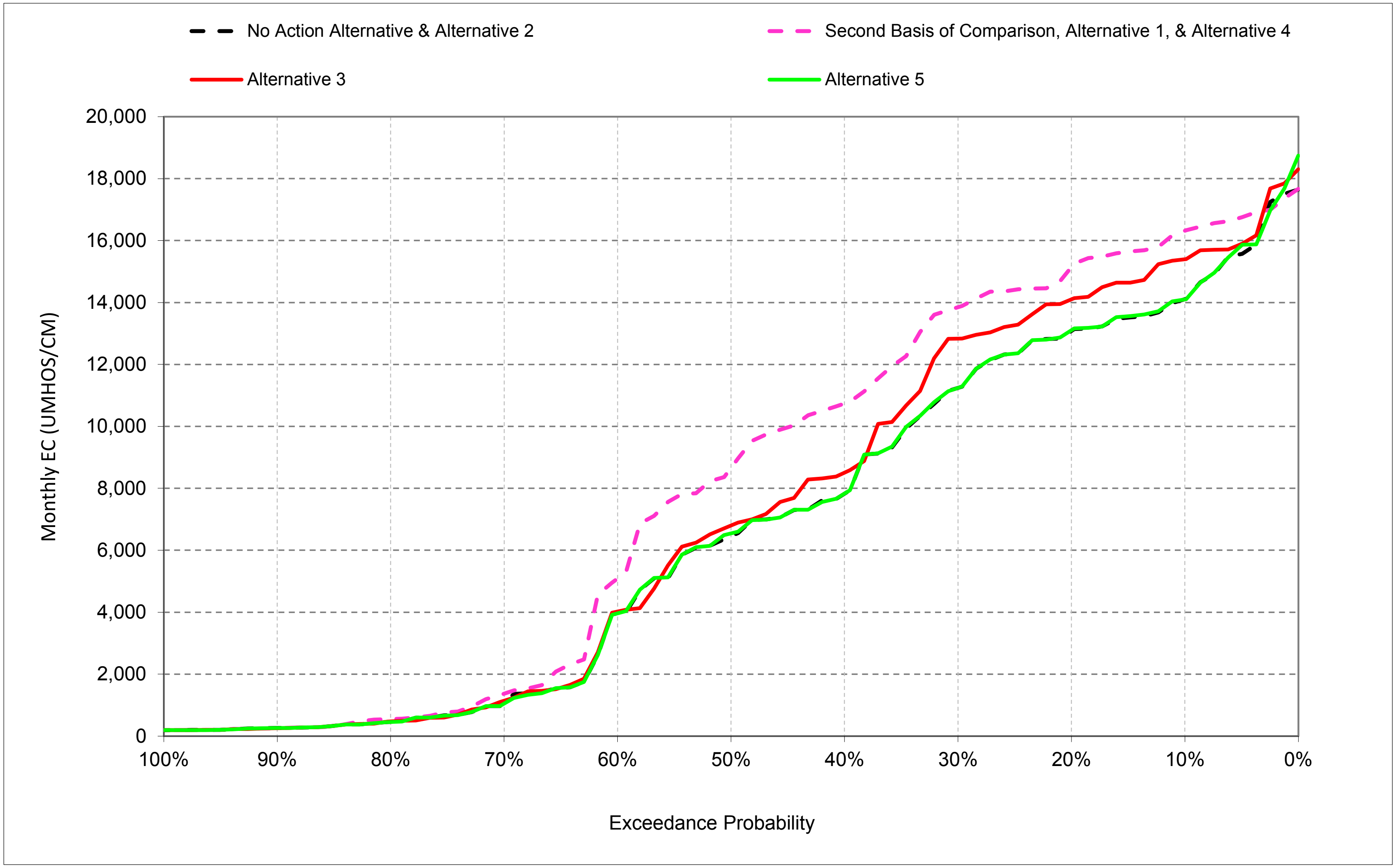
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.3. Sacramento River at Port Chicago Salinity, Electrical Conductivity, December



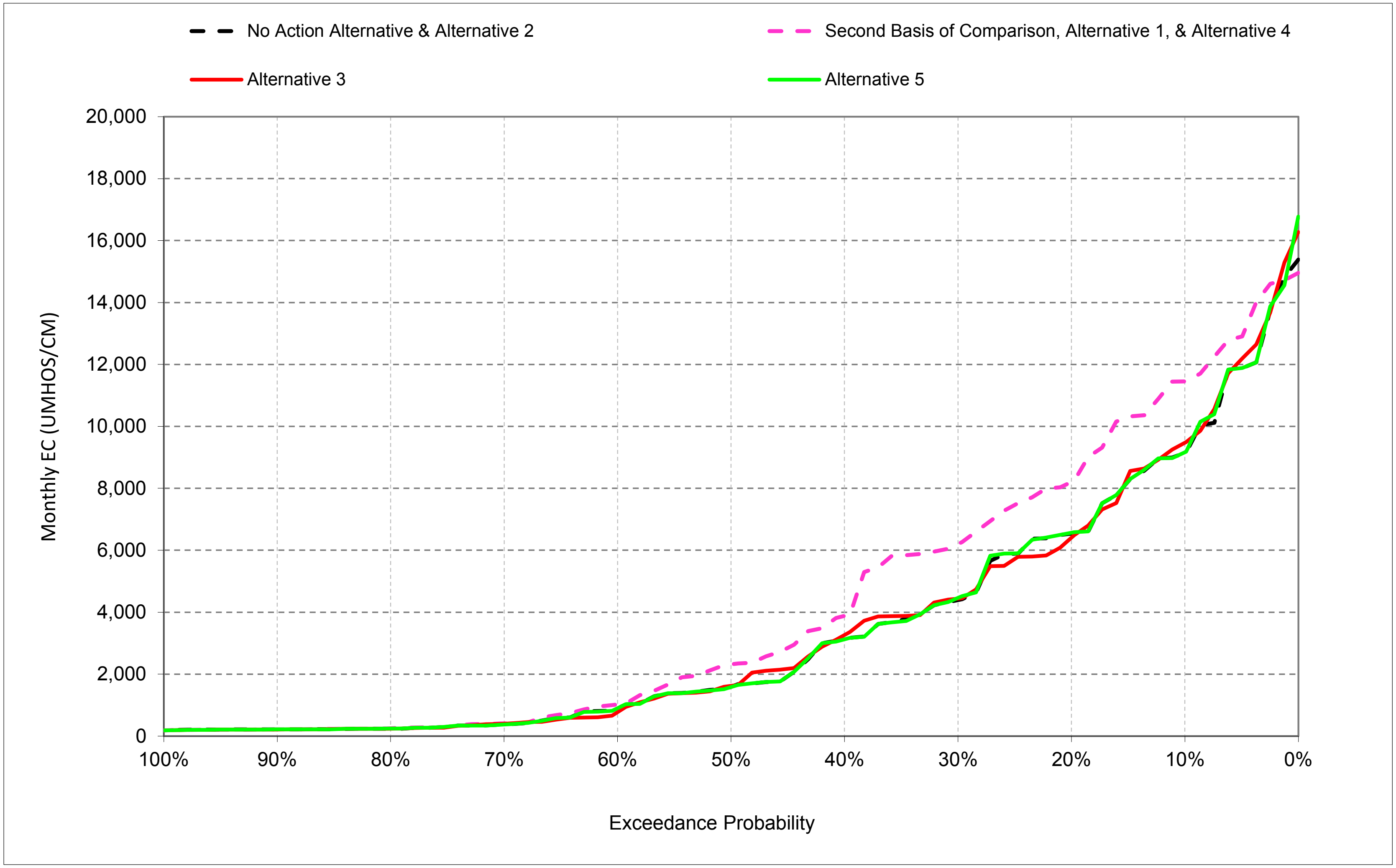
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.4. Sacramento River at Port Chicago Salinity, Electrical Conductivity, January



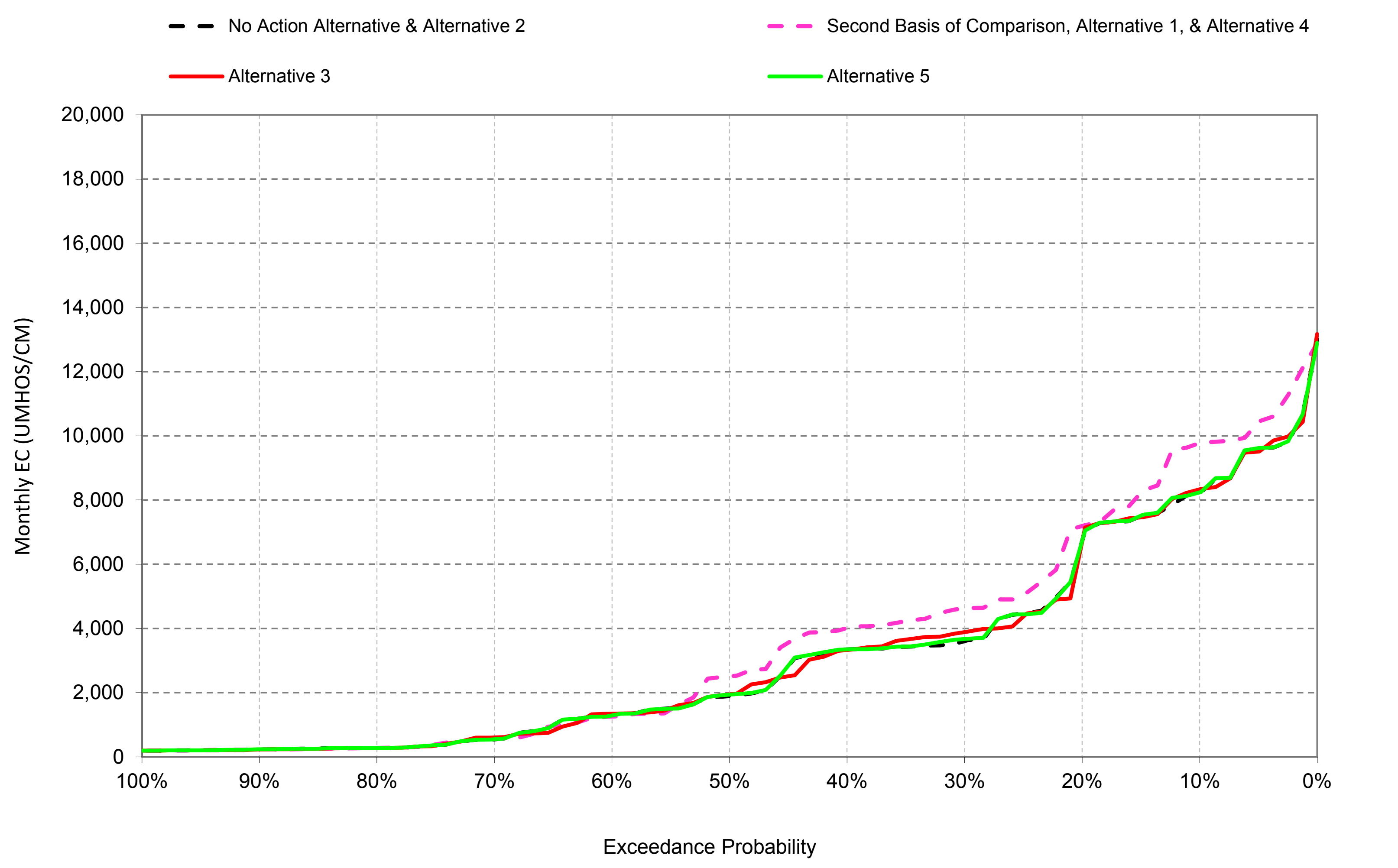
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.5. Sacramento River at Port Chicago Salinity, Electrical Conductivity, February



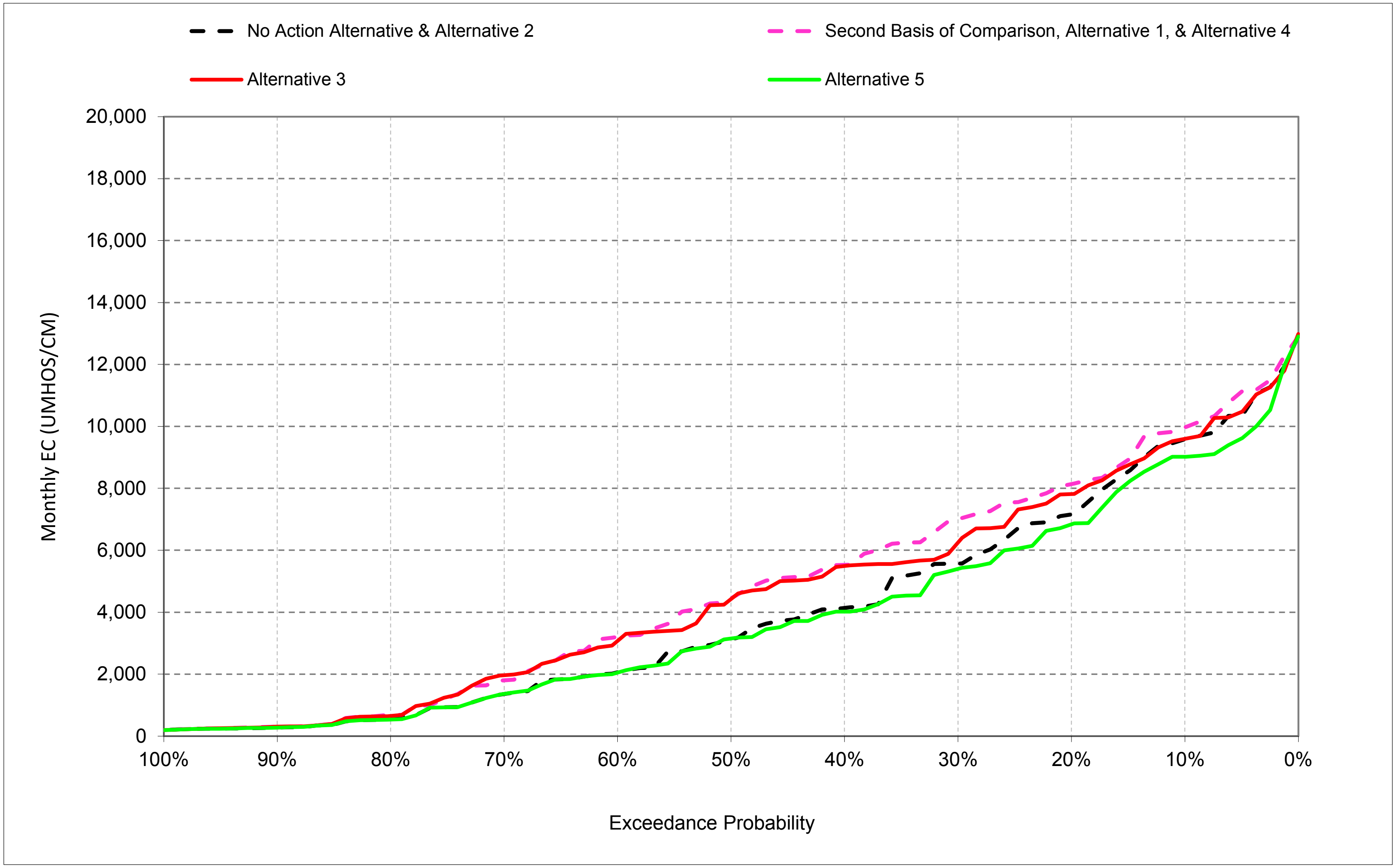
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.6. Sacramento River at Port Chicago Salinity, Electrical Conductivity, March



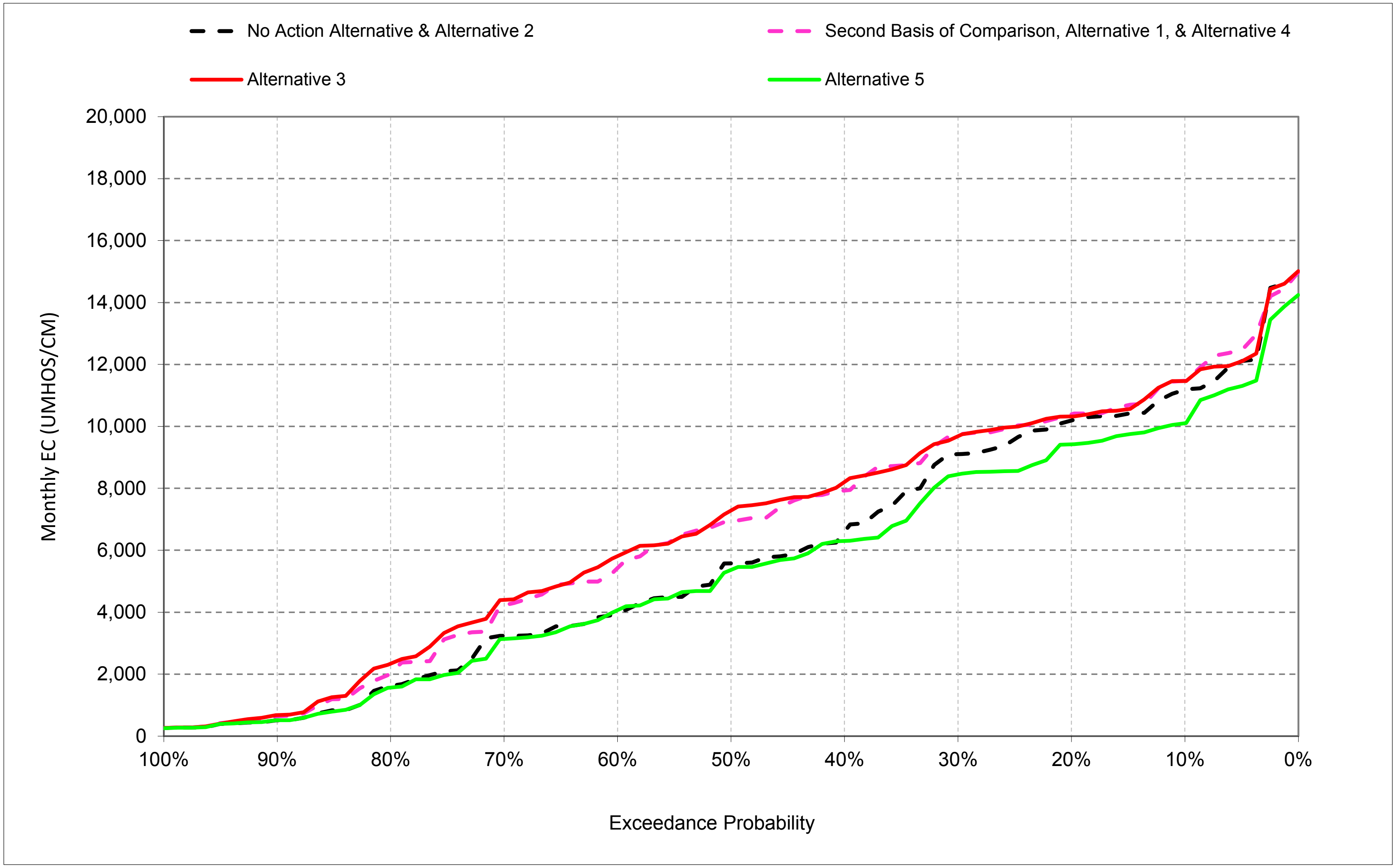
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.7. Sacramento River at Port Chicago Salinity, Electrical Conductivity, April



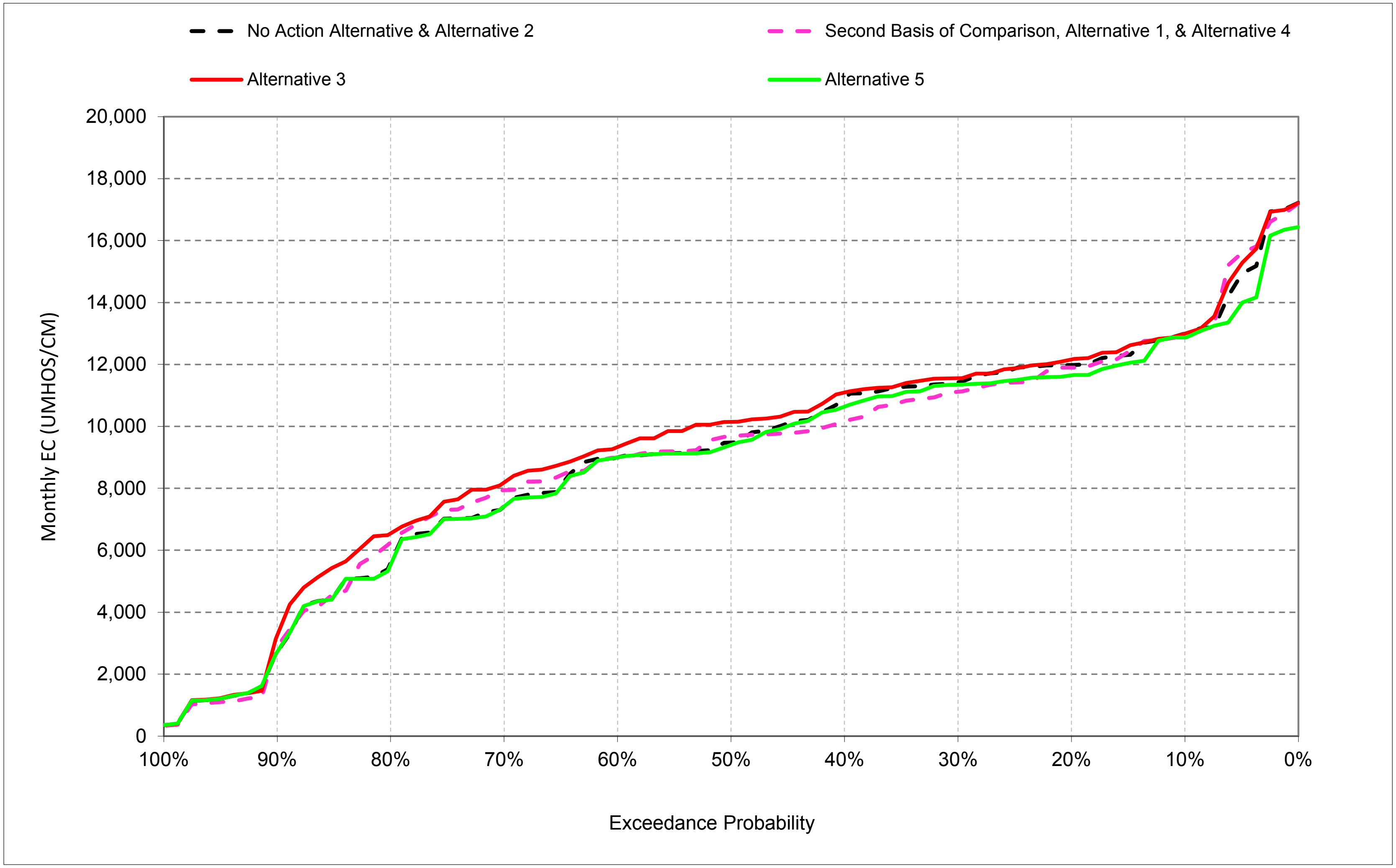
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.8. Sacramento River at Port Chicago Salinity, Electrical Conductivity, May



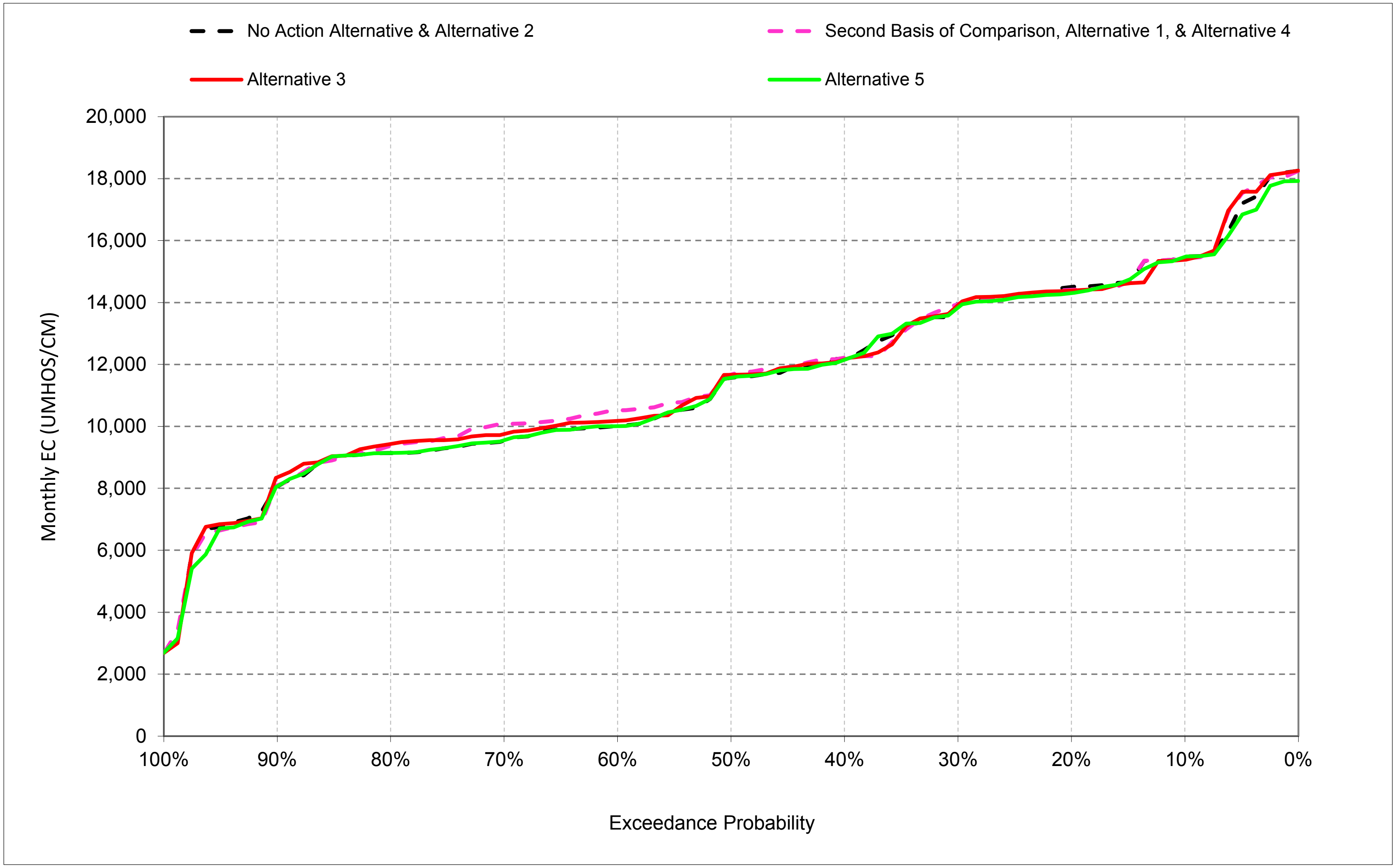
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.9. Sacramento River at Port Chicago Salinity, Electrical Conductivity, June



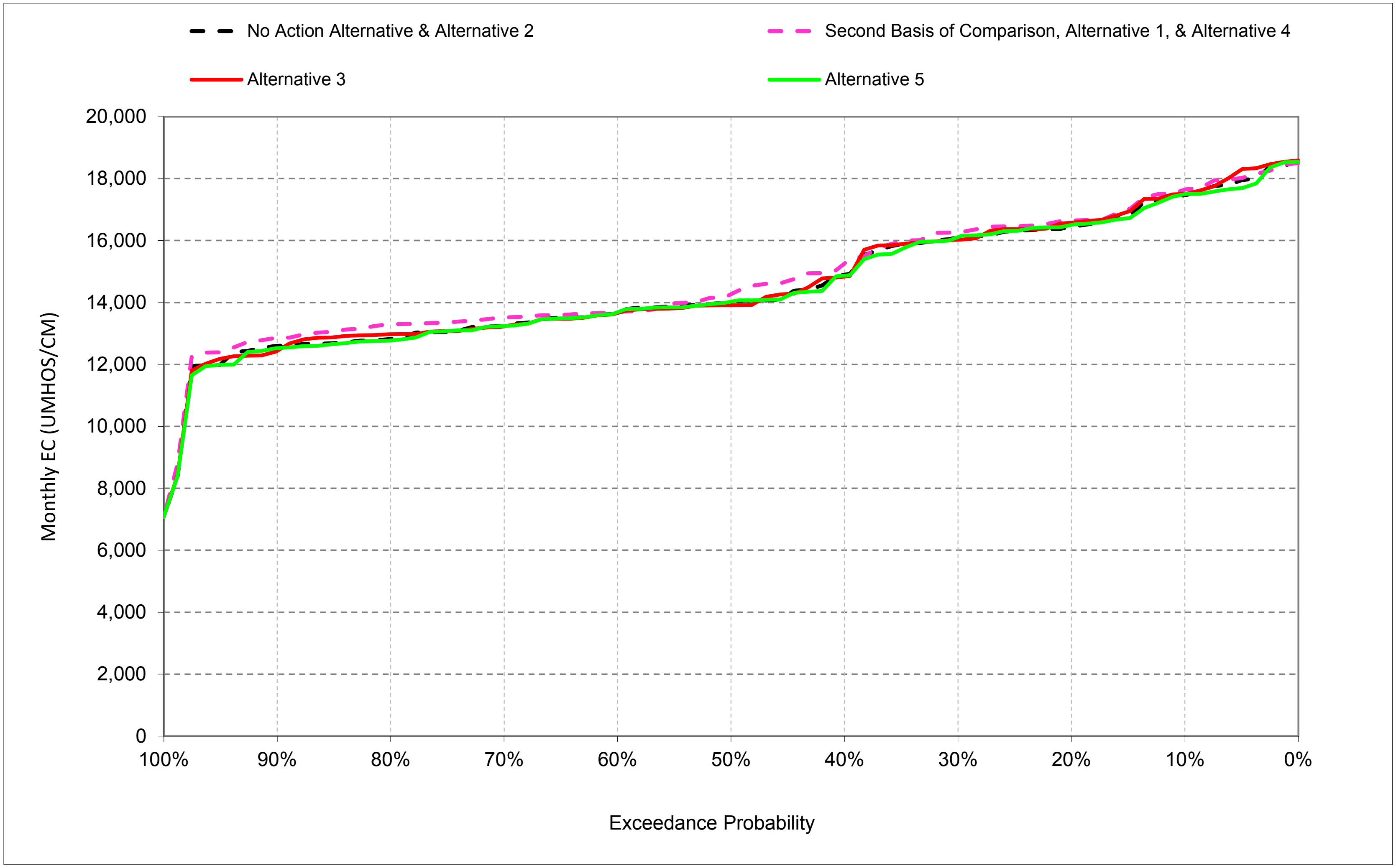
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.10. Sacramento River at Port Chicago Salinity, Electrical Conductivity, July



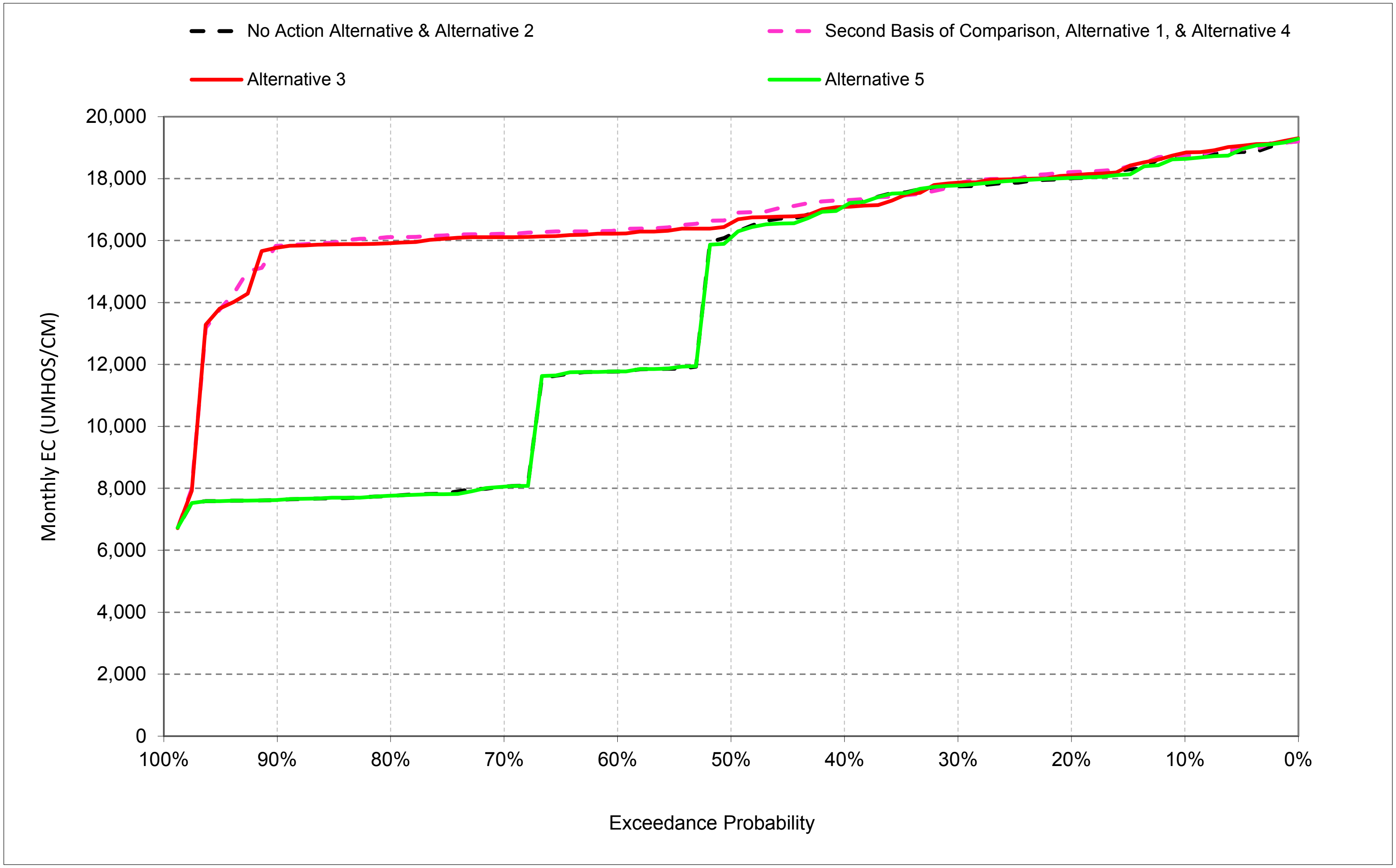
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.11. Sacramento River at Port Chicago Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.6.12. Sacramento River at Port Chicago Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.6.1. Sacramento River at Port Chicago Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	19,730	20,008	18,334	14,105	9,148	8,232	9,583	11,184	13,000	15,476	17,464	18,731
20%	18,797	18,624	16,981	13,083	6,541	6,730	7,154	10,189	11,980	14,499	16,437	18,010
30%	18,652	18,213	13,637	11,245	4,395	3,610	5,568	9,104	11,426	13,864	16,101	17,749
40%	18,408	16,690	12,775	7,827	3,132	3,345	4,140	6,598	10,912	12,195	14,895	17,115
50%	17,441	11,772	11,450	6,456	1,597	1,896	3,119	5,575	9,479	11,568	14,019	16,190
60%	11,807	11,409	10,666	3,956	900	1,287	2,061	3,971	8,998	10,011	13,690	11,771
70%	7,856	7,870	6,682	1,088	375	547	1,360	3,234	7,421	9,544	13,261	8,081
80%	7,557	7,426	2,822	458	241	279	544	1,621	5,586	9,137	12,824	7,783
90%	7,443	7,194	915	260	215	234	276	512	2,718	8,059	12,599	7,650
Long Term												
Full Simulation Period[b]	13,932	12,941	10,458	6,752	3,502	3,167	4,064	5,836	9,049	11,543	14,564	13,647
Water Year Types[c]												
Wet (32%)	11,516	9,834	4,617	1,723	522	765	1,130	1,968	5,080	8,188	12,707	7,719
Above Normal (16%)	15,746	13,225	9,834	3,584	1,351	1,149	1,906	3,817	8,398	9,863	12,993	11,773
Below Normal (13%)	11,574	11,366	11,569	8,740	4,248	4,587	5,295	7,050	10,345	11,789	14,262	16,789
Dry (24%)	14,829	14,641	14,088	10,509	5,269	3,952	5,345	7,867	10,901	13,987	16,209	17,737
Critical (15%)	17,869	17,972	16,718	12,998	8,663	7,945	9,498	11,908	14,079	16,331	17,826	18,823

Alternative 1

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	19,528	19,670	18,458	16,317	11,450	9,775	9,970	11,470	12,921	15,419	17,642	18,754
20%	18,781	18,511	18,245	15,143	8,208	7,192	8,137	10,389	11,899	14,408	16,644	18,212
30%	18,464	18,288	17,776	13,850	6,202	4,623	7,006	9,726	11,120	13,945	16,271	17,825
40%	18,276	18,012	17,064	10,736	3,882	4,015	5,531	7,929	10,159	12,220	15,257	17,306
50%	17,910	17,816	15,892	8,667	2,317	2,512	4,449	6,938	9,682	11,671	14,270	16,776
60%	17,639	17,453	13,522	5,086	1,023	1,254	3,202	5,427	8,989	10,521	13,690	16,338
70%	17,457	17,101	9,437	1,366	409	580	1,800	4,229	7,936	10,081	13,519	16,216
80%	17,169	16,331	4,663	552	250	280	684	2,048	6,252	9,363	13,299	16,111
90%	16,142	11,709	1,298	259	213	231	299	641	2,883	8,098	12,857	15,830
Long Term												
Full Simulation Period[b]	17,560	16,411	12,505	8,064	4,282	3,590	4,752	6,585	9,029	11,657	14,774	16,778
Water Year Types[c]												
Wet (32%)	16,378	14,448	6,247	2,204	618	796	1,551	2,617	5,097	8,394	12,877	15,144
Above Normal (16%)	18,219	16,129	12,396	4,832	1,758	1,190	2,668	5,003	8,342	10,048	13,307	16,244
Below Normal (13%)	17,333	16,030	14,313	11,108	5,397	5,006	6,359	8,011	9,893	11,859	14,672	16,968
Dry (24%)	18,060	17,861	16,486	12,568	6,575	4,754	6,193	8,509	10,937	13,951	16,360	17,883
Critical (15%)	18,781	18,899	17,889	13,966	10,113	9,008	10,068	12,383	14,322	16,464	17,923	18,883

Alternative 1 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	-202	-337	124	2,212	2,301	1,543	387	287	-80	-57	178	23
20%	-16	-113	1,264	2,059	1,667	462	983	200	-80	-91	207	201
30%	-187	75	4,139	2,606	1,807	1,013	1,438	622	-306	81	171	76
40%	-131	1,322	4,288	2,909	750	670	1,391	1,331	-753	24	362	191
50%	469	6,044	4,442	2,211	721	616	1,330	1,363	202	103	251	586
60%	5,832	6,045	2,855	1,130	123	-33	1,141	1,457	-10	510	0	4,567
70%	9,601	9,231	2,755	279	34	33	440	994	515	537	258	8,135
80%	9,612	8,905	1,840	94	10	2	141	427	666	226	474	8,329
90%	8,699	4,515	383	0	-2	-3	24	129	165	39	258	8,180
Long Term												
Full Simulation Period[b]	3,628	3,470	2,047	1,312	780	424	687	749	-20	114	210	3,131
Water Year Types[c]												
Wet (32%)	4,862	4,614	1,630	481	96	31	421	649	17	206	170	7,425
Above Normal (16%)	2,473	2,904	2,562	1,248	407	41	762	1,186	-56	184	314	4,471
Below Normal (13%)	5,759	4,664	2,744	2,368	1,149	419	1,064	960	-453	70	410	178
Dry (24%)	3,231	3,221	2,397	2,059	1,306	801	848	642	36	-36	151	146
Critical (15%)	912	926	1,171	968	1,450	1,063	570	475	244	133	96	59

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.6.2. Sacramento River at Port Chicago Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	19,730	20,008	18,334	14,105	9,148	8,232	9,583	11,184	13,000	15,476	17,464	18,731
20%	18,797	18,624	16,981	13,083	6,541	6,730	7,154	10,189	11,980	14,499	16,437	18,010
30%	18,652	18,213	13,637	11,245	4,395	3,610	5,568	9,104	11,426	13,864	16,101	17,749
40%	18,408	16,690	12,775	7,827	3,132	3,345	4,140	6,598	10,912	12,195	14,895	17,115
50%	17,441	11,772	11,450	6,456	1,597	1,896	3,119	5,575	9,479	11,568	14,019	16,190
60%	11,807	11,409	10,666	3,956	900	1,287	2,061	3,971	8,998	10,011	13,690	11,771
70%	7,856	7,870	6,682	1,088	375	547	1,360	3,234	7,421	9,544	13,261	8,081
80%	7,557	7,426	2,822	458	241	279	544	1,621	5,586	9,137	12,824	7,783
90%	7,443	7,194	915	260	215	234	276	512	2,718	8,059	12,599	7,650
Long Term												
Full Simulation Period[b]	13,932	12,941	10,458	6,752	3,502	3,167	4,064	5,836	9,049	11,543	14,564	13,647
Water Year Types[c]												
Wet (32%)	11,516	9,834	4,617	1,723	522	765	1,130	1,968	5,080	8,188	12,707	7,719
Above Normal (16%)	15,746	13,225	9,834	3,584	1,351	1,149	1,906	3,817	8,398	9,863	12,993	11,773
Below Normal (13%)	11,574	11,366	11,569	8,740	4,248	4,587	5,295	7,050	10,345	11,789	14,262	16,789
Dry (24%)	14,829	14,641	14,088	10,509	5,269	3,952	5,345	7,867	10,901	13,987	16,209	17,737
Critical (15%)	17,869	17,972	16,718	12,998	8,663	7,945	9,498	11,908	14,079	16,331	17,826	18,823

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	19,601	19,937	18,438	15,398	9,470	8,333	9,599	11,466	12,994	15,382	17,503	18,839
20%	18,862	18,556	18,182	14,100	6,405	6,703	7,815	10,318	12,163	14,385	16,580	18,110
30%	18,644	18,369	17,725	12,836	4,439	3,885	6,246	9,685	11,553	13,916	16,025	17,869
40%	18,234	18,034	16,863	8,500	3,261	3,326	5,492	8,203	11,095	12,157	14,832	17,086
50%	17,907	17,880	15,775	6,800	1,624	1,948	4,425	7,281	10,148	11,669	13,914	16,563
60%	17,591	17,474	13,564	4,021	776	1,348	3,075	5,812	9,331	10,176	13,662	16,225
70%	17,419	17,169	7,915	1,142	398	607	1,963	4,400	8,191	9,751	13,230	16,111
80%	17,176	16,182	4,611	474	241	276	654	2,337	6,542	9,430	12,977	15,940
90%	16,334	11,202	1,212	256	213	232	302	675	3,259	8,360	12,439	15,833
Long Term												
Full Simulation Period[b]	17,594	16,503	12,297	7,181	3,534	3,173	4,559	6,670	9,405	11,615	14,598	16,695
Water Year Types[c]												
Wet (32%)	16,321	14,503	5,956	1,838	556	821	1,566	2,800	5,549	8,332	12,662	15,076
Above Normal (16%)	18,382	16,247	11,996	3,877	1,315	1,117	2,572	5,187	8,889	9,989	13,111	16,172
Below Normal (13%)	17,464	16,252	14,340	9,380	4,209	4,509	6,025	8,066	10,735	11,815	14,246	16,646
Dry (24%)	18,017	17,906	16,397	11,276	5,292	3,963	5,852	8,586	11,134	13,928	16,268	17,842
Critical (15%)	18,909	19,009	17,657	13,499	8,845	7,956	9,697	12,188	14,217	16,449	17,943	18,901

Alternative 3 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	-129	-71	104	1,292	322	101	15	282	-6	-94	39	109
20%	66	-68	1,201	1,017	-136	-28	660	129	183	-113	143	100
30%	-8	156	4,089	1,591	44	276	678	581	127	51	-76	119
40%	-174	1,344	4,088	673	129	-19	1,352	1,605	183	-39	-63	-29
50%	466	6,109	4,325	344	27	52	1,306	1,706	668	101	-104	373
60%	5,784	6,066	2,898	66	-124	62	1,014	1,842	333	164	-28	4,455
70%	9,562	9,299	1,233	55	23	60	603	1,166	770	207	-31	8,030
80%	9,619	8,756	1,789	16	0	-2	110	715	956	293	152	8,157
90%	8,890	4,008	298	-4	-2	-2	27	163	541	300	-160	8,184
Long Term												
Full Simulation Period[b]	3,661	3,563	1,839	429	32	7	494	833	356	72	34	3,048
Water Year Types[c]												
Wet (32%)	4,805	4,669	1,339	115	34	56	436	831	468	144	-45	7,357
Above Normal (16%)	2,636	3,022	2,162	292	-37	-32	665	1,370	491	125	118	4,399
Below Normal (13%)	5,891	4,887	2,771	640	-39	-77	730	1,016	390	26	-16	-143
Dry (24%)	3,188	3,265	2,308	767	23	11	507	719	233	-59	58	104
Critical (15%)	1,039	1,036	939	501	182	11	199	280	138	118	117	77

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.6.3. Sacramento River at Port Chicago Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	19,730	20,008	18,334	14,105	9,148	8,232	9,583	11,184	13,000	15,476	17,464	18,731
20%	18,797	18,624	16,981	13,083	6,541	6,730	7,154	10,189	11,980	14,499	16,437	18,010
30%	18,652	18,213	13,637	11,245	4,395	3,610	5,568	9,104	11,426	13,864	16,101	17,749
40%	18,408	16,690	12,775	7,827	3,132	3,345	4,140	6,598	10,912	12,195	14,895	17,115
50%	17,441	11,772	11,450	6,456	1,597	1,896	3,119	5,575	9,479	11,568	14,019	16,190
60%	11,807	11,409	10,666	3,956	900	1,287	2,061	3,971	8,998	10,011	13,690	11,771
70%	7,856	7,870	6,682	1,088	375	547	1,360	3,234	7,421	9,544	13,261	8,081
80%	7,557	7,426	2,822	458	241	279	544	1,621	5,586	9,137	12,824	7,783
90%	7,443	7,194	915	260	215	234	276	512	2,718	8,059	12,599	7,650
Long Term												
Full Simulation Period[b]	13,932	12,941	10,458	6,752	3,502	3,167	4,064	5,836	9,049	11,543	14,564	13,647
Water Year Types[c]												
Wet (32%)	11,516	9,834	4,617	1,723	522	765	1,130	1,968	5,080	8,188	12,707	7,719
Above Normal (16%)	15,746	13,225	9,834	3,584	1,351	1,149	1,906	3,817	8,398	9,863	12,993	11,773
Below Normal (13%)	11,574	11,366	11,569	8,740	4,248	4,587	5,295	7,050	10,345	11,789	14,262	16,789
Dry (24%)	14,829	14,641	14,088	10,509	5,269	3,952	5,345	7,867	10,901	13,987	16,209	17,737
Critical (15%)	17,869	17,972	16,718	12,998	8,663	7,945	9,498	11,908	14,079	16,331	17,826	18,823

Alternative 5

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	19,671	19,928	18,427	14,102	9,160	8,238	9,021	10,101	12,872	15,473	17,497	18,640
20%	18,881	18,623	16,830	13,102	6,564	6,731	6,839	9,425	11,652	14,300	16,506	18,019
30%	18,675	18,214	13,606	11,246	4,461	3,671	5,402	8,451	11,347	13,834	16,111	17,778
40%	18,355	16,660	12,761	7,827	3,123	3,349	4,022	6,302	10,638	12,148	14,871	17,110
50%	17,303	11,760	11,441	6,544	1,586	1,937	3,151	5,365	9,405	11,573	14,025	16,097
60%	11,808	11,376	10,667	3,964	901	1,288	2,047	4,071	8,998	10,007	13,691	11,773
70%	7,855	7,870	6,629	1,050	374	549	1,361	3,141	7,415	9,553	13,240	8,077
80%	7,557	7,426	2,840	458	242	279	534	1,565	5,528	9,141	12,778	7,779
90%	7,421	7,158	918	260	215	234	276	512	2,720	8,060	12,527	7,654
Long Term												
Full Simulation Period[b]	13,926	12,905	10,448	6,773	3,525	3,175	3,856	5,492	8,886	11,483	14,521	13,637
Water Year Types[c]												
Wet (32%)	11,518	9,853	4,623	1,716	521	764	1,123	1,906	5,057	8,128	12,644	7,714
Above Normal (16%)	15,737	13,001	9,726	3,580	1,351	1,151	1,893	3,739	8,360	9,861	12,989	11,791
Below Normal (13%)	11,582	11,371	11,574	8,749	4,245	4,589	5,035	6,665	10,227	11,761	14,219	16,736
Dry (24%)	14,818	14,623	14,111	10,544	5,280	3,961	4,937	7,305	10,677	13,950	16,187	17,734
Critical (15%)	17,842	17,956	16,710	13,091	8,802	7,985	9,020	11,066	13,537	16,140	17,744	18,798

Alternative 5 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	-59	-80	93	-3	12	7	-563	-1,083	-128	-3	33	-90
20%	84	-1	-152	19	23	1	-315	-764	-328	-199	69	9
30%	23	1	-31	1	66	62	-165	-652	-79	-30	10	28
40%	-52	-30	-15	0	-10	4	-117	-297	-274	-48	-25	-5
50%	-138	-11	-9	89	-11	41	32	-210	-75	5	7	-93
60%	1	-33	0	8	1	1	-14	100	-1	-4	1	3
70%	-1	0	-53	-38	-1	2	1	-94	-6	9	-21	-4
80%	0	0	17	0	1	0	-10	-56	-58	4	-46	-4
90%	-22	-37	3	0	0	0	0	0	2	1	-72	4
Long Term												
Full Simulation Period[b]	-6	-36	-10	20	22	8	-208	-344	-163	-60	-44	-10
Water Year Types[c]												
Wet (32%)	2	19	6	-7	-1	-1	-7	-62	-24	-60	-64	-5
Above Normal (16%)	-9	-224	-108	-4	0	1	-13	-78	-38	-3	-4	18
Below Normal (13%)	8	5	5	9	-3	2	-260	-385	-119	-28	-43	-53
Dry (24%)	-11	-18	23	35	11	9	-408	-562	-224	-37	-22	-3
Critical (15%)	-27	-17	-8	93	140	41	-478	-842	-542	-191	-82	-26

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.6.4. Sacramento River at Port Chicago Salinity, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	19,528	19,670	18,458	16,317	11,450	9,775	9,970	11,470	12,921	15,419	17,642	18,754
20%	18,781	18,511	18,245	15,143	8,208	7,192	8,137	10,389	11,899	14,408	16,644	18,212
30%	18,464	18,288	17,776	13,850	6,202	4,623	7,006	9,726	11,120	13,945	16,271	17,825
40%	18,276	18,012	17,064	10,736	3,882	4,015	5,531	7,929	10,159	12,220	15,257	17,306
50%	17,910	17,816	15,892	8,667	2,317	2,512	4,449	6,938	9,682	11,671	14,270	16,776
60%	17,639	17,453	13,522	5,086	1,023	1,254	3,202	5,427	8,989	10,521	13,690	16,338
70%	17,457	17,101	9,437	1,366	409	580	1,800	4,229	7,936	10,081	13,519	16,216
80%	17,169	16,331	4,663	552	250	280	684	2,048	6,252	9,363	13,299	16,111
90%	16,142	11,709	1,298	259	213	231	299	641	2,883	8,098	12,857	15,830
Long Term												
Full Simulation Period[b]	17,560	16,411	12,505	8,064	4,282	3,590	4,752	6,585	9,029	11,657	14,774	16,778
Water Year Types[c]												
Wet (32%)	16,378	14,448	6,247	2,204	618	796	1,551	2,617	5,097	8,394	12,877	15,144
Above Normal (16%)	18,219	16,129	12,396	4,832	1,758	1,190	2,668	5,003	8,342	10,048	13,307	16,244
Below Normal (13%)	17,333	16,030	14,313	11,108	5,397	5,006	6,359	8,011	9,893	11,859	14,672	16,968
Dry (24%)	18,060	17,861	16,486	12,568	6,575	4,754	6,193	8,509	10,937	13,951	16,360	17,883
Critical (15%)	18,781	18,899	17,889	13,966	10,113	9,008	10,068	12,383	14,322	16,464	17,923	18,883

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	19,730	20,008	18,334	14,105	9,148	8,232	9,583	11,184	13,000	15,476	17,464	18,731
20%	18,797	18,624	16,981	13,083	6,541	6,730	7,154	10,189	11,980	14,499	16,437	18,010
30%	18,652	18,213	13,637	11,245	4,395	3,610	5,568	9,104	11,426	13,864	16,101	17,749
40%	18,408	16,690	12,775	7,827	3,132	3,345	4,140	6,598	10,912	12,195	14,895	17,115
50%	17,441	11,772	11,450	6,456	1,597	1,896	3,119	5,575	9,479	11,568	14,019	16,190
60%	11,807	11,409	10,666	3,956	900	1,287	2,061	3,971	8,998	10,011	13,690	11,771
70%	7,856	7,870	6,682	1,088	375	547	1,360	3,234	7,421	9,544	13,261	8,081
80%	7,557	7,426	2,822	458	241	279	544	1,621	5,586	9,137	12,824	7,783
90%	7,443	7,194	915	260	215	234	276	512	2,718	8,059	12,599	7,650
Long Term												
Full Simulation Period[b]	13,932	12,941	10,458	6,752	3,502	3,167	4,064	5,836	9,049	11,543	14,564	13,647
Water Year Types[c]												
Wet (32%)	11,516	9,834	4,617	1,723	522	765	1,130	1,968	5,080	8,188	12,707	7,719
Above Normal (16%)	15,746	13,225	9,834	3,584	1,351	1,149	1,906	3,817	8,398	9,863	12,993	11,773
Below Normal (13%)	11,574	11,366	11,569	8,740	4,248	4,587	5,295	7,050	10,345	11,789	14,262	16,789
Dry (24%)	14,829	14,641	14,088	10,509	5,269	3,952	5,345	7,867	10,901	13,987	16,209	17,737
Critical (15%)	17,869	17,972	16,718	12,998	8,663	7,945	9,498	11,908	14,079	16,331	17,826	18,823

No Action Alternative minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	202	337	-124	-2,212	-2,301	-1,543	-387	-287	80	57	-178	-23
20%	16	113	-1,264	-2,059	-1,667	-462	-983	-200	80	91	-207	-201
30%	187	-75	-4,139	-2,606	-1,807	-1,013	-1,438	-622	306	-81	-171	-76
40%	131	-1,322	-4,288	-2,909	-750	-670	-1,391	-1,331	753	-24	-362	-191
50%	-469	-6,044	-4,442	-2,211	-721	-616	-1,330	-1,363	-202	-103	-251	-586
60%	-5,832	-6,045	-2,855	-1,130	-123	33	-1,141	-1,457	10	-510	0	-4,567
70%	-9,601	-9,231	-2,755	-279	-34	-33	-440	-994	-515	-537	-258	-8,135
80%	-9,612	-8,905	-1,840	-94	-10	-2	-141	-427	-666	-226	-474	-8,329
90%	-8,699	-4,515	-383	0	2	3	-24	-129	-165	-39	-258	-8,180
Long Term												
Full Simulation Period[b]	-3,628	-3,470	-2,047	-1,312	-780	-424	-687	-749	20	-114	-210	-3,131
Water Year Types[c]												
Wet (32%)	-4,862	-4,614	-1,630	-481	-96	-31	-421	-649	-17	-206	-170	-7,425
Above Normal (16%)	-2,473	-2,904	-2,562	-1,248	-407	-41	-762	-1,186	56	-184	-314	-4,471
Below Normal (13%)	-5,759	-4,664	-2,744	-2,368	-1,149	-419	-1,064	-960	453	-70	-410	-178
Dry (24%)	-3,231	-3,221	-2,397	-2,059	-1,306	-801	-848	-642	-36	36	-151	-146
Critical (15%)	-912	-926	-1,171	-968	-1,450	-1,063	-570	-475	-244	-133	-96	-59

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.6.5. Sacramento River at Port Chicago Salinity, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	19,528	19,670	18,458	16,317	11,450	9,775	9,970	11,470	12,921	15,419	17,642	18,754
20%	18,781	18,511	18,245	15,143	8,208	7,192	8,137	10,389	11,899	14,408	16,644	18,212
30%	18,464	18,288	17,776	13,850	6,202	4,623	7,006	9,726	11,120	13,945	16,271	17,825
40%	18,276	18,012	17,064	10,736	3,882	4,015	5,531	7,929	10,159	12,220	15,257	17,306
50%	17,910	17,816	15,892	8,667	2,317	2,512	4,449	6,938	9,682	11,671	14,270	16,776
60%	17,639	17,453	13,522	5,086	1,023	1,254	3,202	5,427	8,989	10,521	13,690	16,338
70%	17,457	17,101	9,437	1,366	409	580	1,800	4,229	7,936	10,081	13,519	16,216
80%	17,169	16,331	4,663	552	250	280	684	2,048	6,252	9,363	13,299	16,111
90%	16,142	11,709	1,298	259	213	231	299	641	2,883	8,098	12,857	15,830
Long Term												
Full Simulation Period[b]	17,560	16,411	12,505	8,064	4,282	3,590	4,752	6,585	9,029	11,657	14,774	16,778
Water Year Types[c]												
Wet (32%)	16,378	14,448	6,247	2,204	618	796	1,551	2,617	5,097	8,394	12,877	15,144
Above Normal (16%)	18,219	16,129	12,396	4,832	1,758	1,190	2,668	5,003	8,342	10,048	13,307	16,244
Below Normal (13%)	17,333	16,030	14,313	11,108	5,397	5,006	6,359	8,011	9,893	11,859	14,672	16,968
Dry (24%)	18,060	17,861	16,486	12,568	6,575	4,754	6,193	8,509	10,937	13,951	16,360	17,883
Critical (15%)	18,781	18,899	17,889	13,966	10,113	9,008	10,068	12,383	14,322	16,464	17,923	18,883

Alternative 3

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	19,601	19,937	18,438	15,398	9,470	8,333	9,599	11,466	12,994	15,382	17,503	18,839
20%	18,862	18,556	18,182	14,100	6,405	6,703	7,815	10,318	12,163	14,385	16,580	18,110
30%	18,644	18,369	17,725	12,836	4,439	3,885	6,246	9,685	11,553	13,916	16,025	17,869
40%	18,234	18,034	16,863	8,500	3,261	3,326	5,492	8,203	11,095	12,157	14,832	17,086
50%	17,907	17,880	15,775	6,800	1,624	1,948	4,425	7,281	10,148	11,669	13,914	16,563
60%	17,591	17,474	13,564	4,021	776	1,348	3,075	5,812	9,331	10,176	13,662	16,225
70%	17,419	17,169	7,915	1,142	398	607	1,963	4,400	8,191	9,751	13,230	16,111
80%	17,176	16,182	4,611	474	241	276	654	2,337	6,542	9,430	12,977	15,940
90%	16,334	11,202	1,212	256	213	232	302	675	3,259	8,360	12,439	15,833
Long Term												
Full Simulation Period[b]	17,594	16,503	12,297	7,181	3,534	3,173	4,559	6,670	9,405	11,615	14,598	16,695
Water Year Types[c]												
Wet (32%)	16,321	14,503	5,956	1,838	556	821	1,566	2,800	5,549	8,332	12,662	15,076
Above Normal (16%)	18,382	16,247	11,996	3,877	1,315	1,117	2,572	5,187	8,889	9,989	13,111	16,172
Below Normal (13%)	17,464	16,252	14,340	9,380	4,209	4,509	6,025	8,066	10,735	11,815	14,246	16,646
Dry (24%)	18,017	17,906	16,397	11,276	5,292	3,963	5,852	8,586	11,134	13,928	16,268	17,842
Critical (15%)	18,909	19,009	17,657	13,499	8,845	7,956	9,697	12,188	14,217	16,449	17,943	18,901

Alternative 3 minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	74	266	-20	-919	-1,979	-1,442	-371	-5	73	-37	-139	85
20%	81	45	-63	-1,043	-1,803	-490	-323	-71	263	-23	-64	-101
30%	180	81	-51	-1,015	-1,763	-738	-760	-40	433	-30	-247	43
40%	-43	22	-201	-2,236	-621	-689	-39	274	936	-63	-425	-220
50%	-3	65	-117	-1,867	-694	-564	-23	343	466	-2	-356	-213
60%	-48	21	42	-1,065	-248	94	-127	385	342	-345	-28	-113
70%	-38	67	-1,522	-224	-11	27	163	172	255	-330	-289	-105
80%	7	-149	-52	-78	-9	-4	-31	289	290	67	-322	-171
90%	192	-507	-86	-3	0	1	3	34	376	261	-418	3
Long Term												
Full Simulation Period[b]	34	93	-208	-883	-748	-417	-193	85	375	-42	-176	-83
Water Year Types[c]												
Wet (32%)	-57	55	-291	-367	-62	25	15	182	452	-62	-215	-68
Above Normal (16%)	163	118	-400	-955	-444	-73	-97	184	547	-59	-196	-71
Below Normal (13%)	132	223	27	-1,728	-1,188	-496	-334	56	842	-44	-426	-321
Dry (24%)	-42	44	-89	-1,292	-1,283	-790	-341	77	197	-23	-93	-42
Critical (15%)	127	110	-232	-467	-1,268	-1,052	-371	-194	-106	-15	21	18

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.6.6. Sacramento River at Port Chicago Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	19,528	19,670	18,458	16,317	11,450	9,775	9,970	11,470	12,921	15,419	17,642	18,754
20%	18,781	18,511	18,245	15,143	8,208	7,192	8,137	10,389	11,899	14,408	16,644	18,212
30%	18,464	18,288	17,776	13,850	6,202	4,623	7,006	9,726	11,120	13,945	16,271	17,825
40%	18,276	18,012	17,064	10,736	3,882	4,015	5,531	7,929	10,159	12,220	15,257	17,306
50%	17,910	17,816	15,892	8,667	2,317	2,512	4,449	6,938	9,682	11,671	14,270	16,776
60%	17,639	17,453	13,522	5,086	1,023	1,254	3,202	5,427	8,989	10,521	13,690	16,338
70%	17,457	17,101	9,437	1,366	409	580	1,800	4,229	7,936	10,081	13,519	16,216
80%	17,169	16,331	4,663	552	250	280	684	2,048	6,252	9,363	13,299	16,111
90%	16,142	11,709	1,298	259	213	231	299	641	2,883	8,098	12,857	15,830
Long Term												
Full Simulation Period[b]	17,560	16,411	12,505	8,064	4,282	3,590	4,752	6,585	9,029	11,657	14,774	16,778
Water Year Types[c]												
Wet (32%)	16,378	14,448	6,247	2,204	618	796	1,551	2,617	5,097	8,394	12,877	15,144
Above Normal (16%)	18,219	16,129	12,396	4,832	1,758	1,190	2,668	5,003	8,342	10,048	13,307	16,244
Below Normal (13%)	17,333	16,030	14,313	11,108	5,397	5,006	6,359	8,011	9,893	11,859	14,672	16,968
Dry (24%)	18,060	17,861	16,486	12,568	6,575	4,754	6,193	8,509	10,937	13,951	16,360	17,883
Critical (15%)	18,781	18,899	17,889	13,966	10,113	9,008	10,068	12,383	14,322	16,464	17,923	18,883

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	19,671	19,928	18,427	14,102	9,160	8,238	9,021	10,101	12,872	15,473	17,497	18,640
20%	18,881	18,623	16,830	13,102	6,564	6,731	6,839	9,425	11,652	14,300	16,506	18,019
30%	18,675	18,214	13,606	11,246	4,461	3,671	5,402	8,451	11,347	13,834	16,111	17,778
40%	18,355	16,660	12,761	7,827	3,123	3,349	4,022	6,302	10,638	12,148	14,871	17,110
50%	17,303	11,760	11,441	6,544	1,586	1,937	3,151	5,365	9,405	11,573	14,025	16,097
60%	11,808	11,376	10,667	3,964	901	1,288	2,047	4,071	8,998	10,007	13,691	11,773
70%	7,855	7,870	6,629	1,050	374	549	1,361	3,141	7,415	9,553	13,240	8,077
80%	7,557	7,426	2,840	458	242	279	534	1,565	5,528	9,141	12,778	7,779
90%	7,421	7,158	918	260	215	234	276	512	2,720	8,060	12,527	7,654
Long Term												
Full Simulation Period[b]	13,926	12,905	10,448	6,773	3,525	3,175	3,856	5,492	8,886	11,483	14,521	13,637
Water Year Types[c]												
Wet (32%)	11,518	9,853	4,623	1,716	521	764	1,123	1,906	5,057	8,128	12,644	7,714
Above Normal (16%)	15,737	13,001	9,726	3,580	1,351	1,151	1,893	3,739	8,360	9,861	12,989	11,791
Below Normal (13%)	11,582	11,371	11,574	8,749	4,245	4,589	5,035	6,665	10,227	11,761	14,219	16,736
Dry (24%)	14,818	14,623	14,111	10,544	5,280	3,961	4,937	7,305	10,677	13,950	16,187	17,734
Critical (15%)	17,842	17,956	16,710	13,091	8,802	7,985	9,020	11,066	13,537	16,140	17,744	18,798

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	143	257	-31	-2,215	-2,289	-1,537	-949	-1,370	-48	54	-146	-113
20%	100	112	-1,416	-2,041	-1,644	-461	-1,298	-964	-248	-108	-138	-192
30%	211	-74	-4,170	-2,604	-1,741	-952	-1,603	-1,274	227	-111	-161	-48
40%	79	-1,352	-4,303	-2,909	-759	-666	-1,508	-1,628	479	-72	-386	-196
50%	-607	-6,055	-4,451	-2,122	-731	-575	-1,298	-1,573	-277	-98	-245	-679
60%	-5,831	-6,077	-2,855	-1,122	-122	34	-1,155	-1,356	9	-514	1	-4,565
70%	-9,602	-9,232	-2,808	-317	-35	-31	-439	-1,088	-521	-528	-279	-8,139
80%	-9,612	-8,904	-1,823	-94	-9	-1	-151	-482	-724	-222	-520	-8,332
90%	-8,721	-4,551	-380	0	2	3	-24	-129	-163	-38	-330	-8,176
Long Term												
Full Simulation Period[b]	-3,634	-3,506	-2,057	-1,291	-758	-415	-896	-1,093	-144	-175	-253	-3,142
Water Year Types[c]												
Wet (32%)	-4,860	-4,595	-1,624	-488	-97	-32	-428	-712	-40	-266	-233	-7,430
Above Normal (16%)	-2,482	-3,128	-2,670	-1,252	-407	-40	-775	-1,264	18	-187	-318	-4,452
Below Normal (13%)	-5,751	-4,659	-2,739	-2,359	-1,152	-417	-1,324	-1,346	334	-98	-453	-231
Dry (24%)	-3,241	-3,239	-2,374	-2,024	-1,295	-793	-1,256	-1,204	-260	-1	-173	-149
Critical (15%)	-939	-943	-1,179	-876	-1,311	-1,023	-1,048	-1,317	-786	-324	-178	-85

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

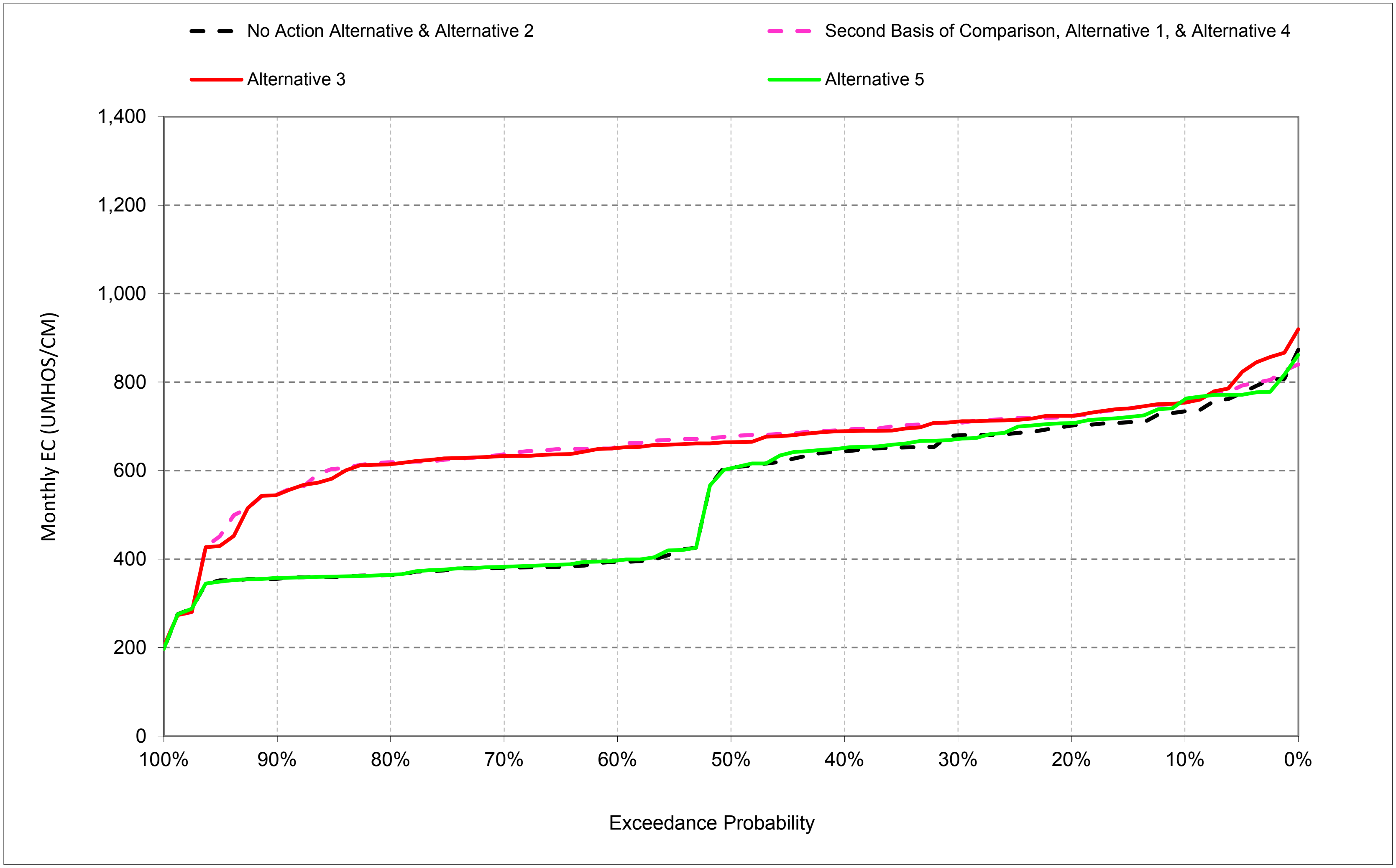
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

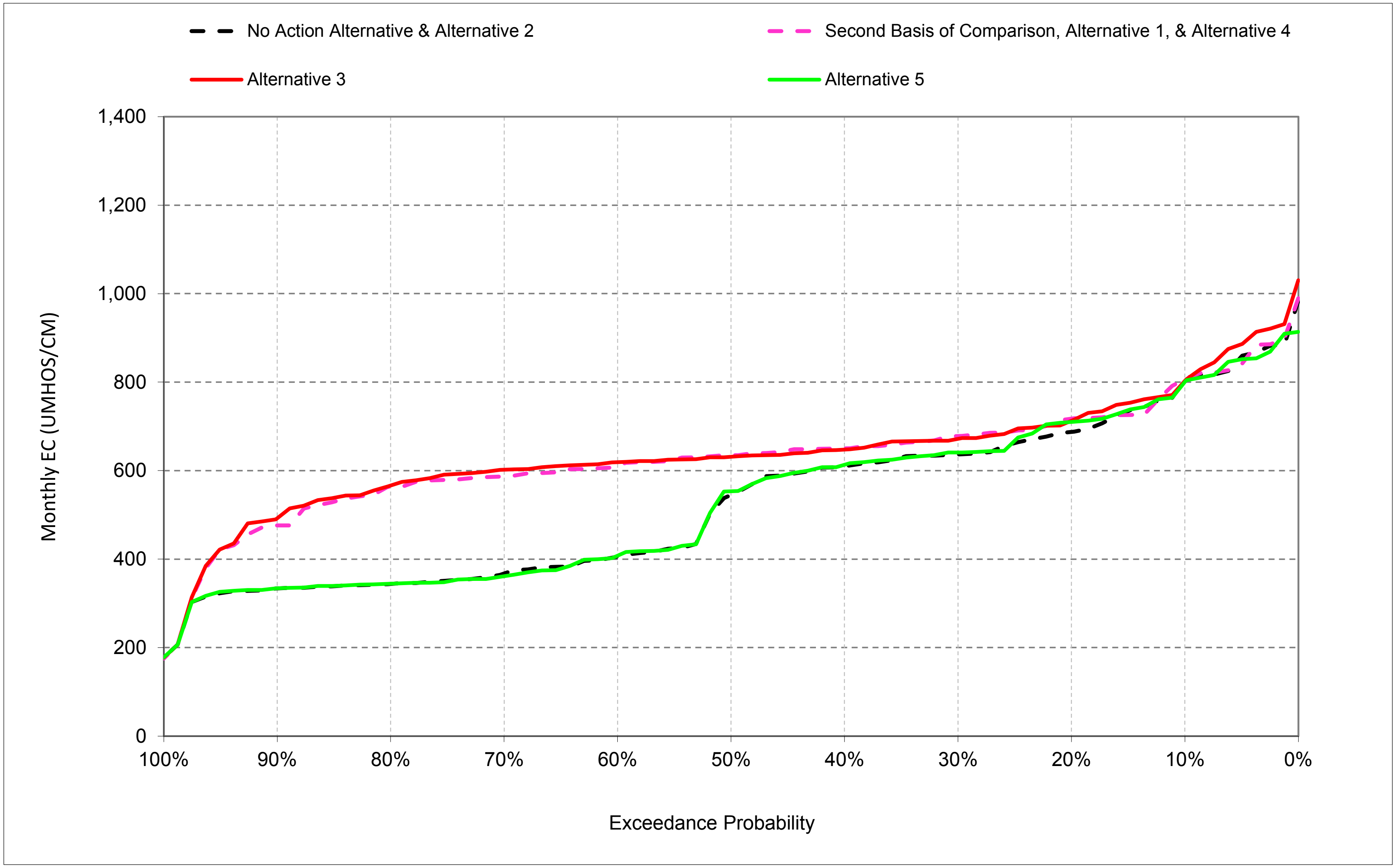
B.7. Jones Pumping Plant Salinity

Figure 6E.B.7.1. Jones Pumping Plant Salinity, Electrical Conductivity, October



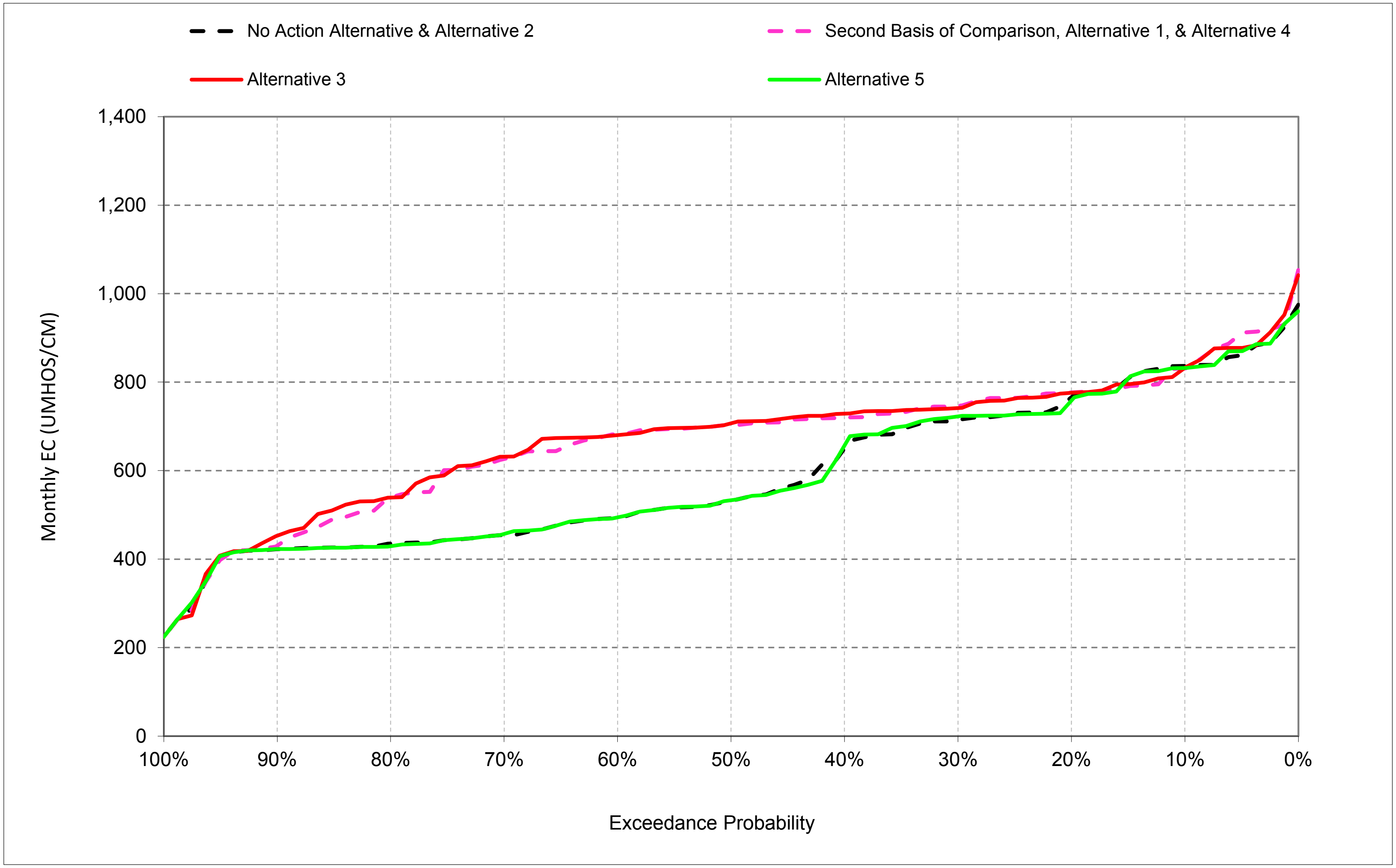
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.2. Jones Pumping Plant Salinity, Electrical Conductivity, November



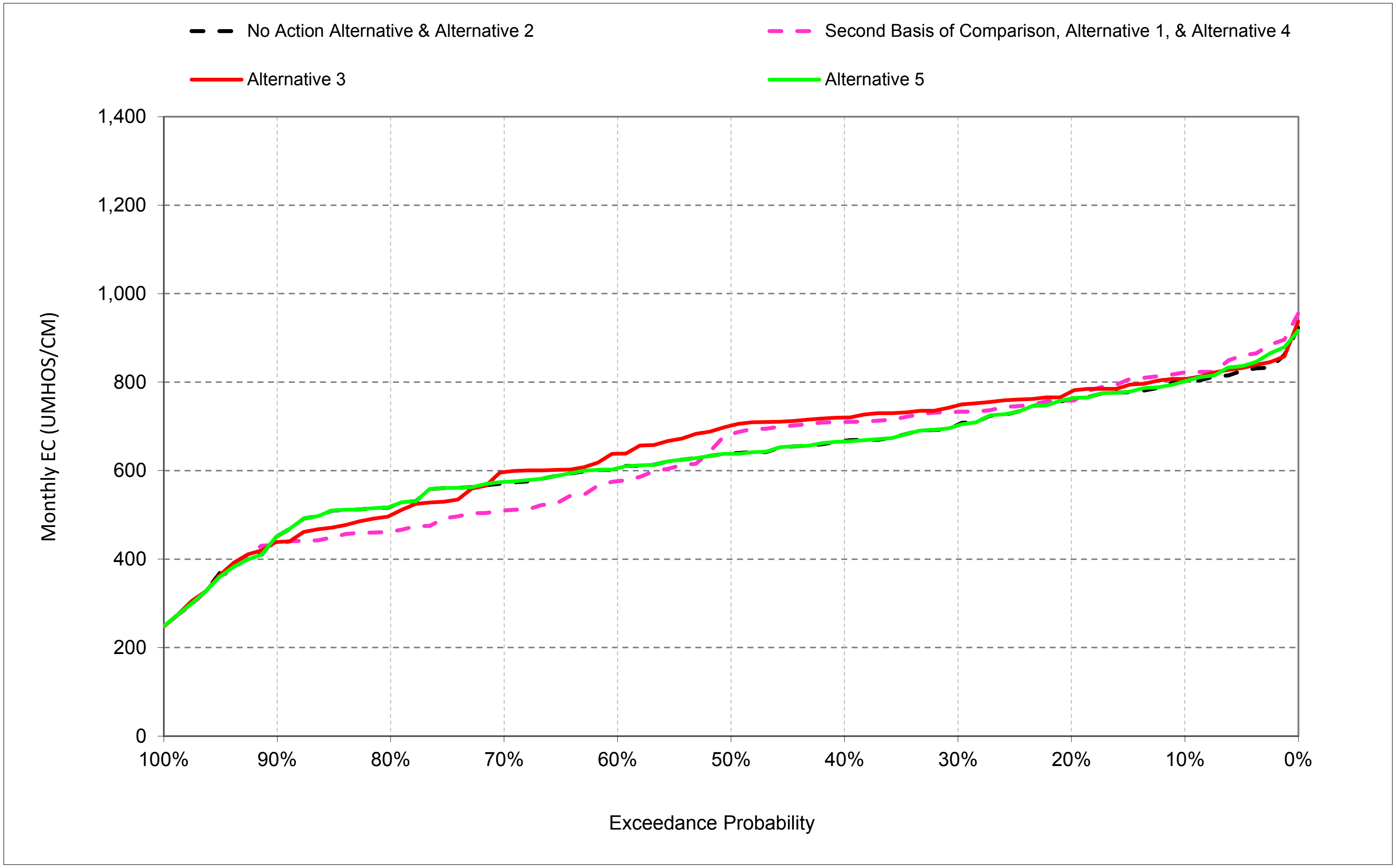
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.3. Jones Pumping Plant Salinity, Electrical Conductivity, December



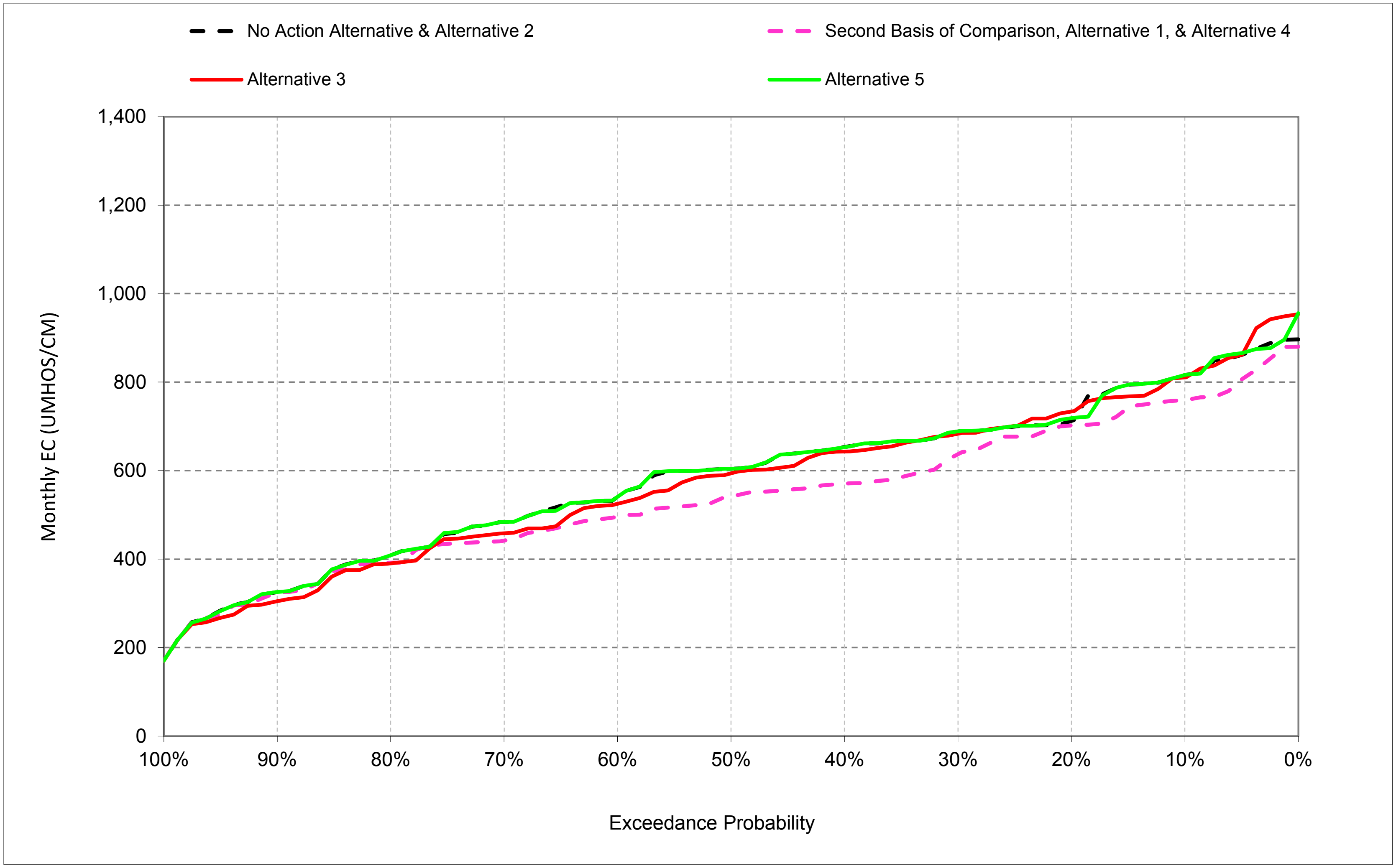
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.4. Jones Pumping Plant Salinity, Electrical Conductivity, January



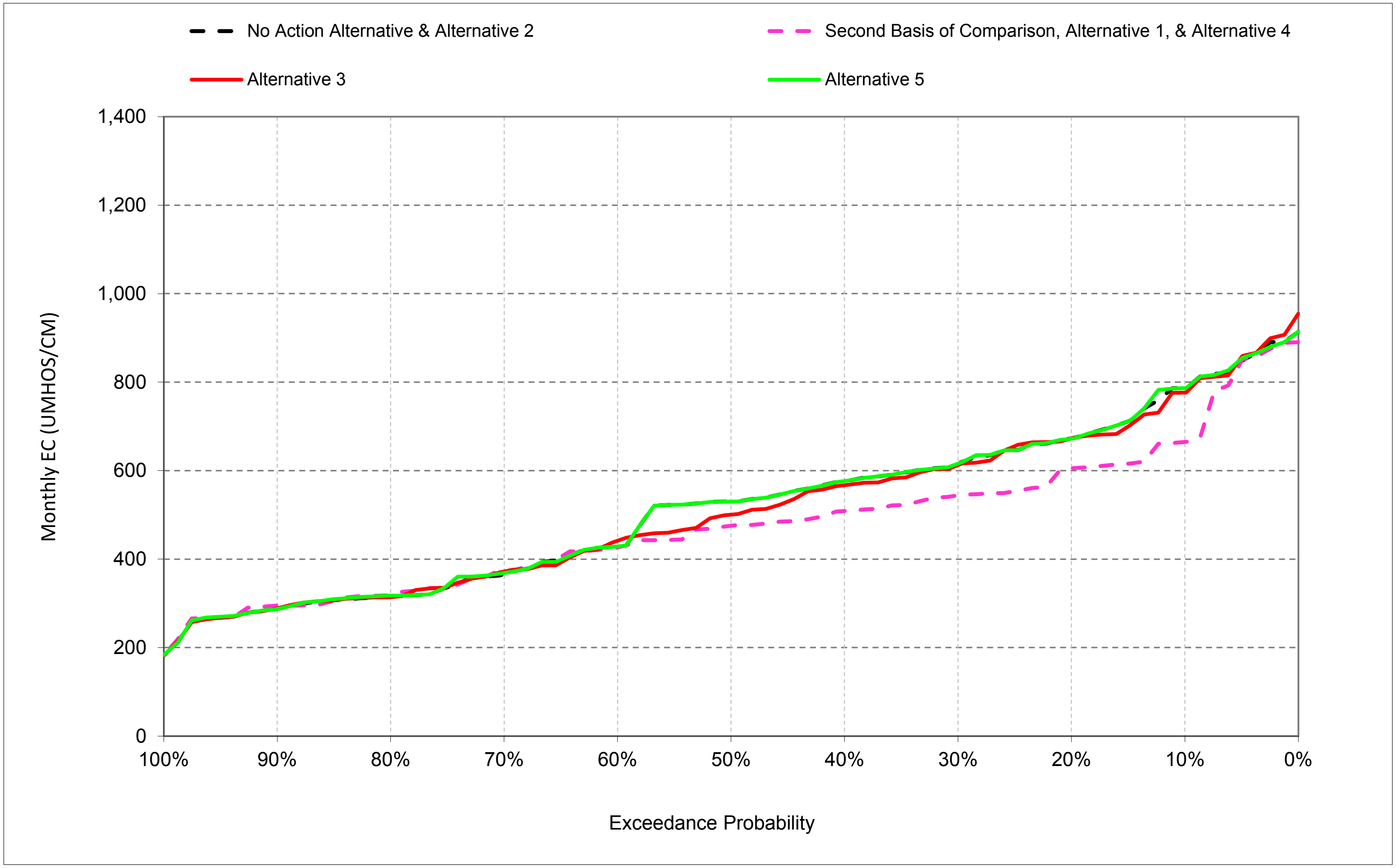
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.5. Jones Pumping Plant Salinity, Electrical Conductivity, February



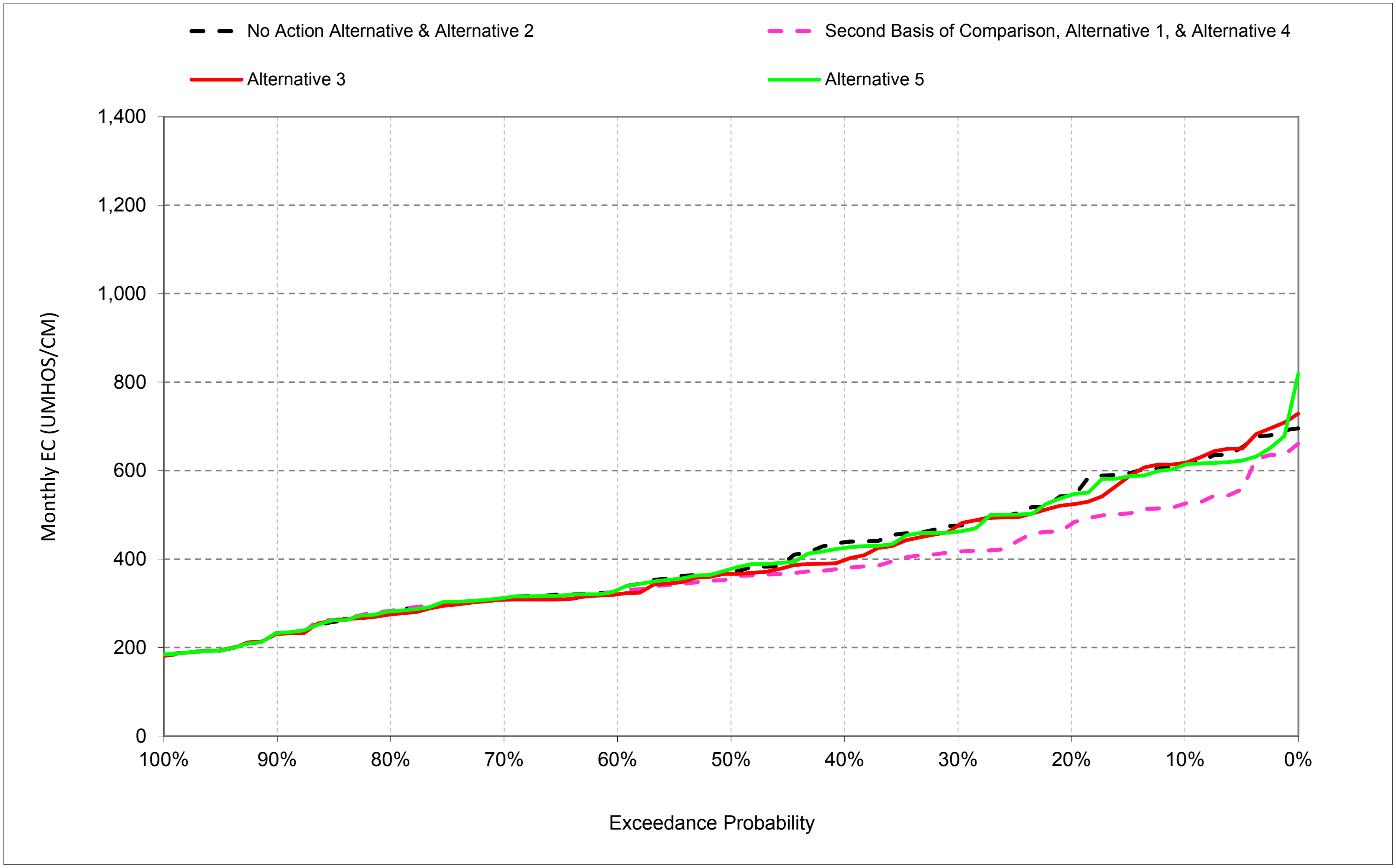
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.6. Jones Pumping Plant Salinity, Electrical Conductivity, March



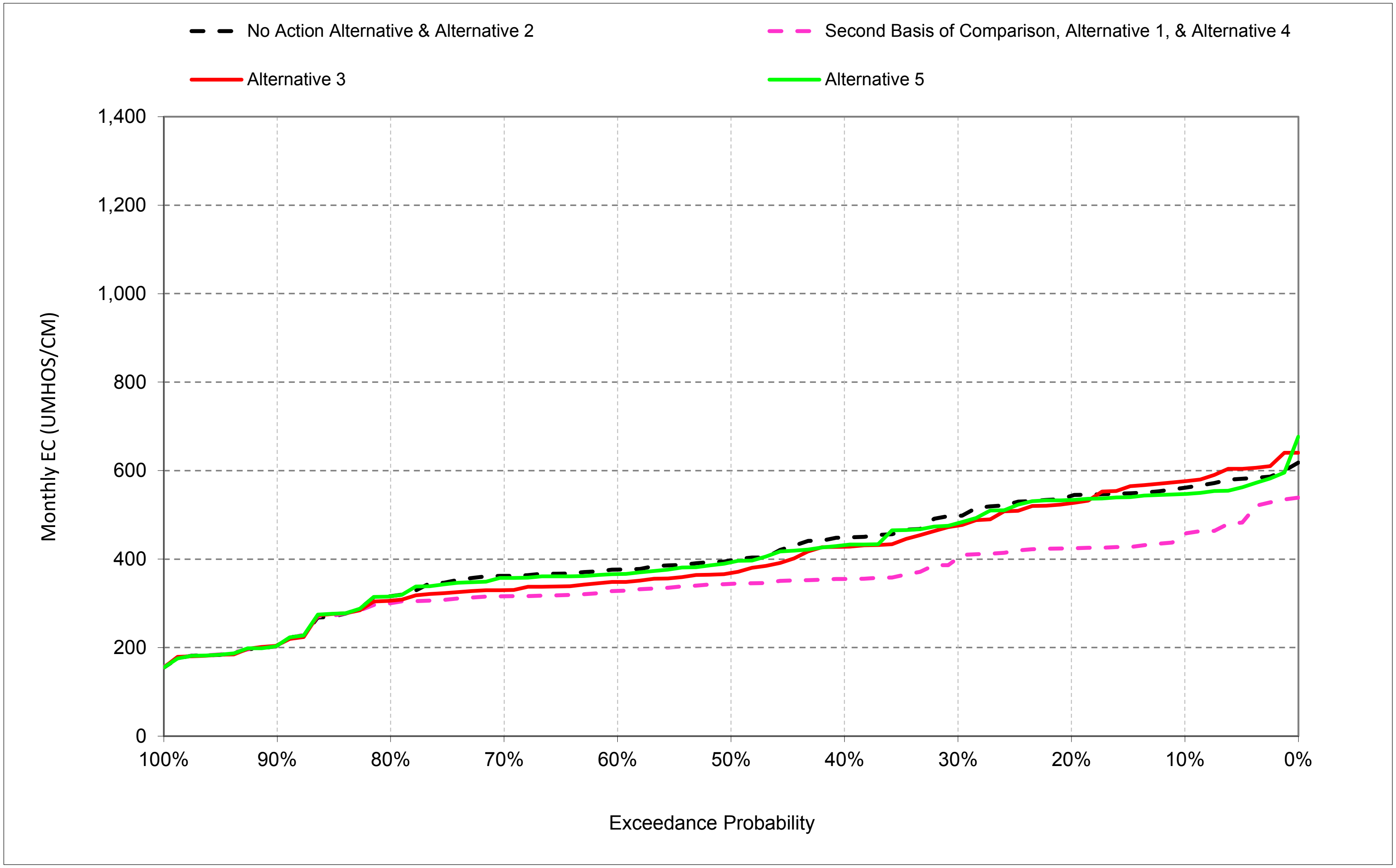
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.7. Jones Pumping Plant Salinity, Electrical Conductivity, April



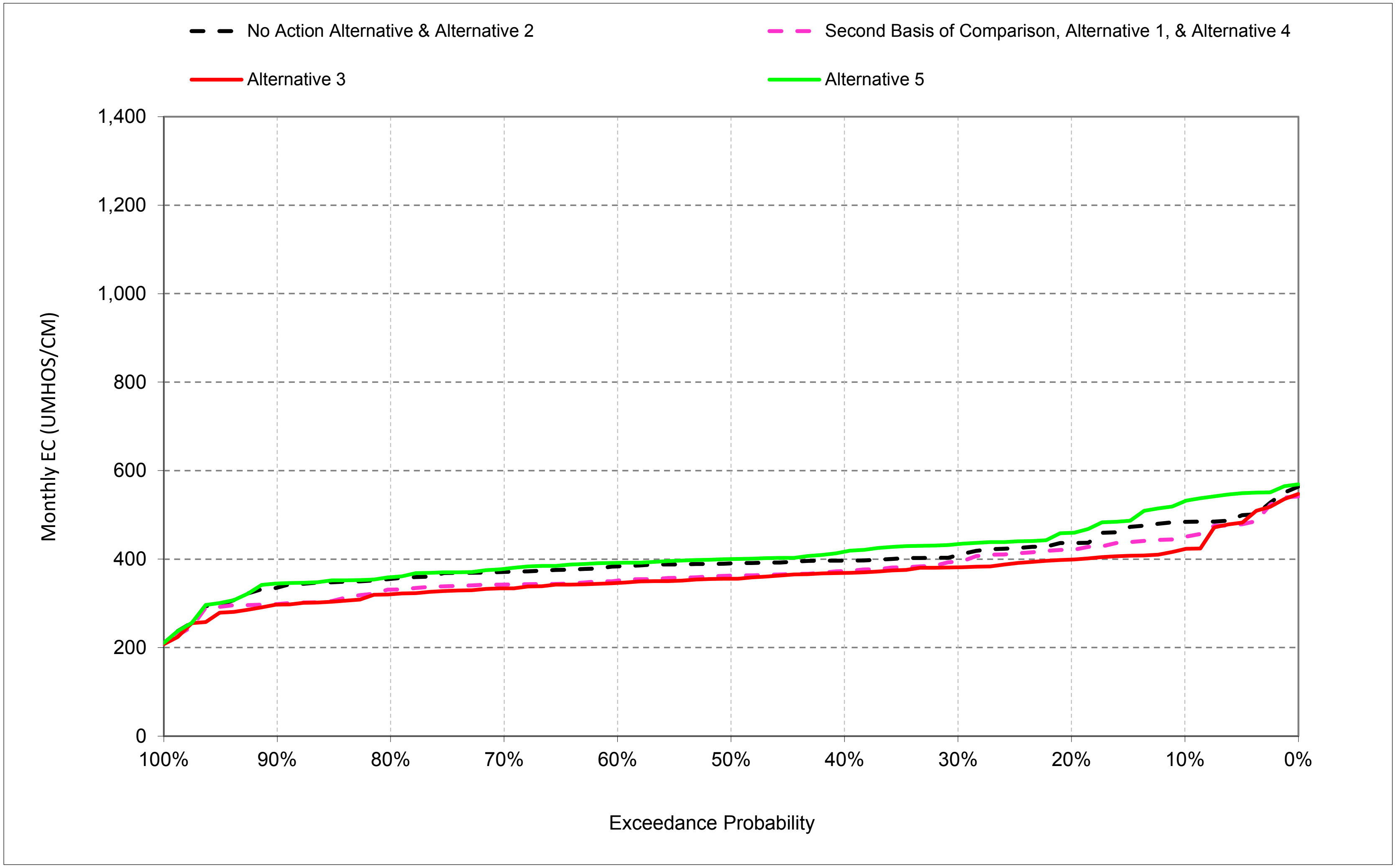
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.8. Jones Pumping Plant Salinity, Electrical Conductivity, May



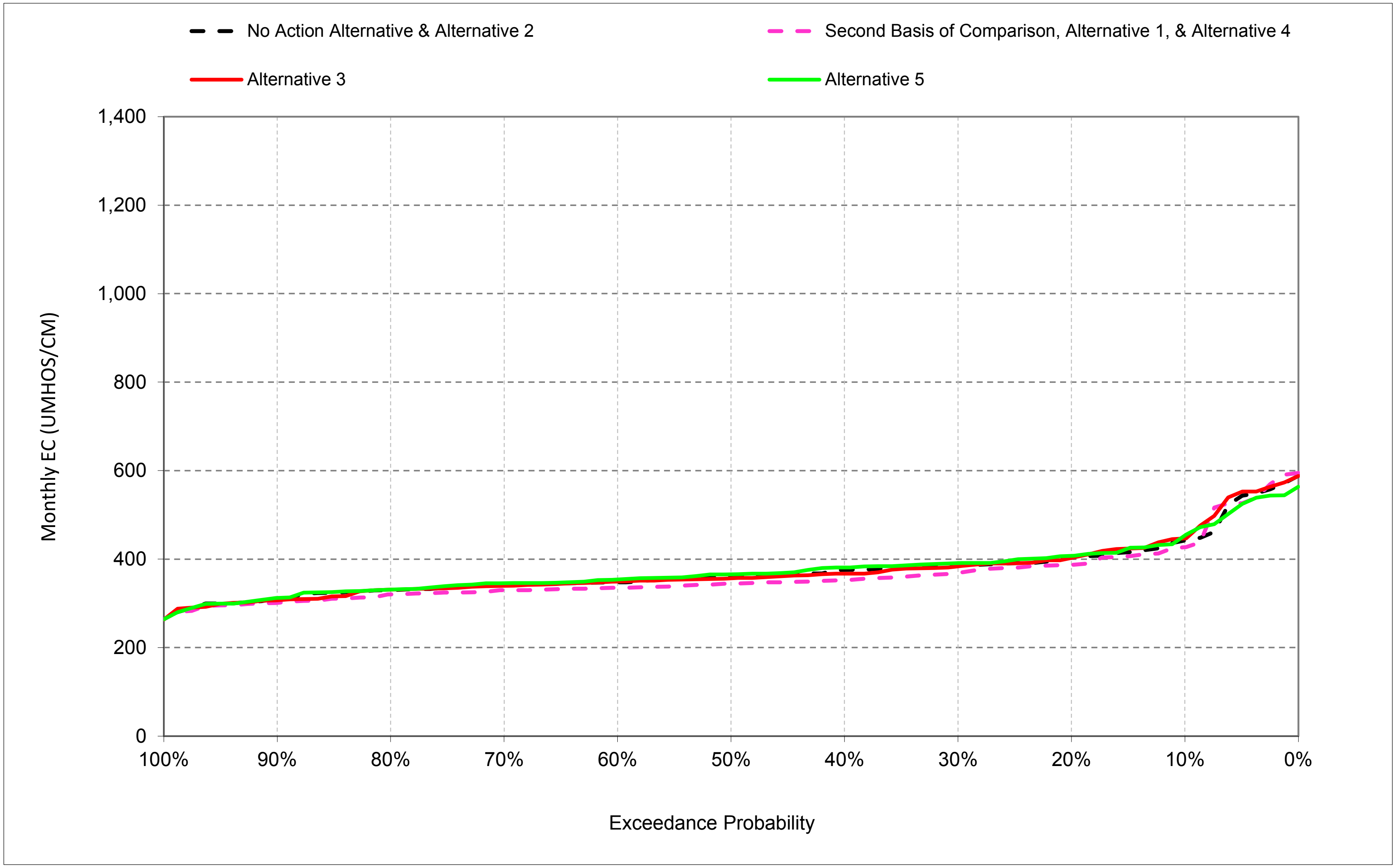
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.9. Jones Pumping Plant Salinity, Electrical Conductivity, June



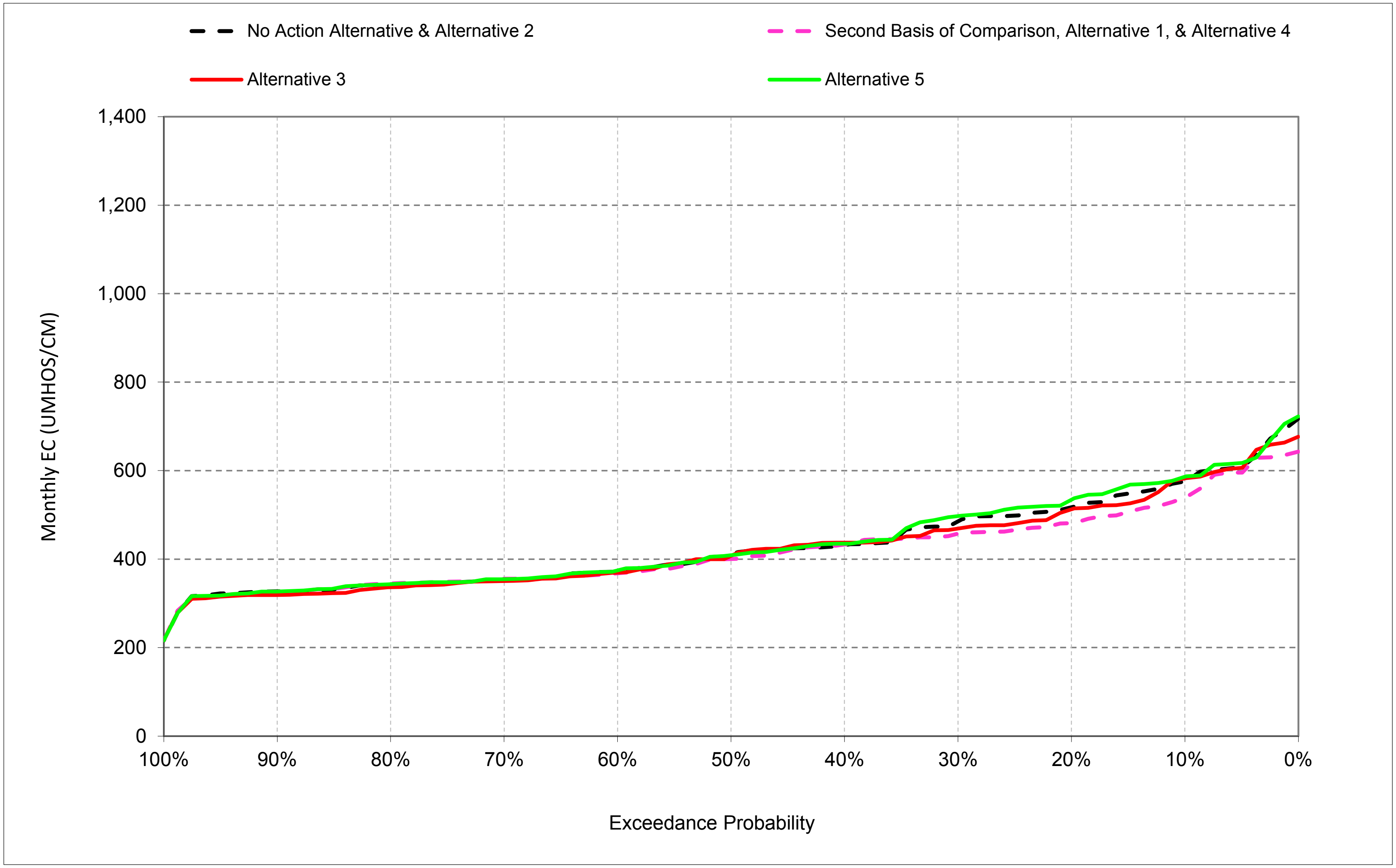
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.10. Jones Pumping Plant Salinity, Electrical Conductivity, July



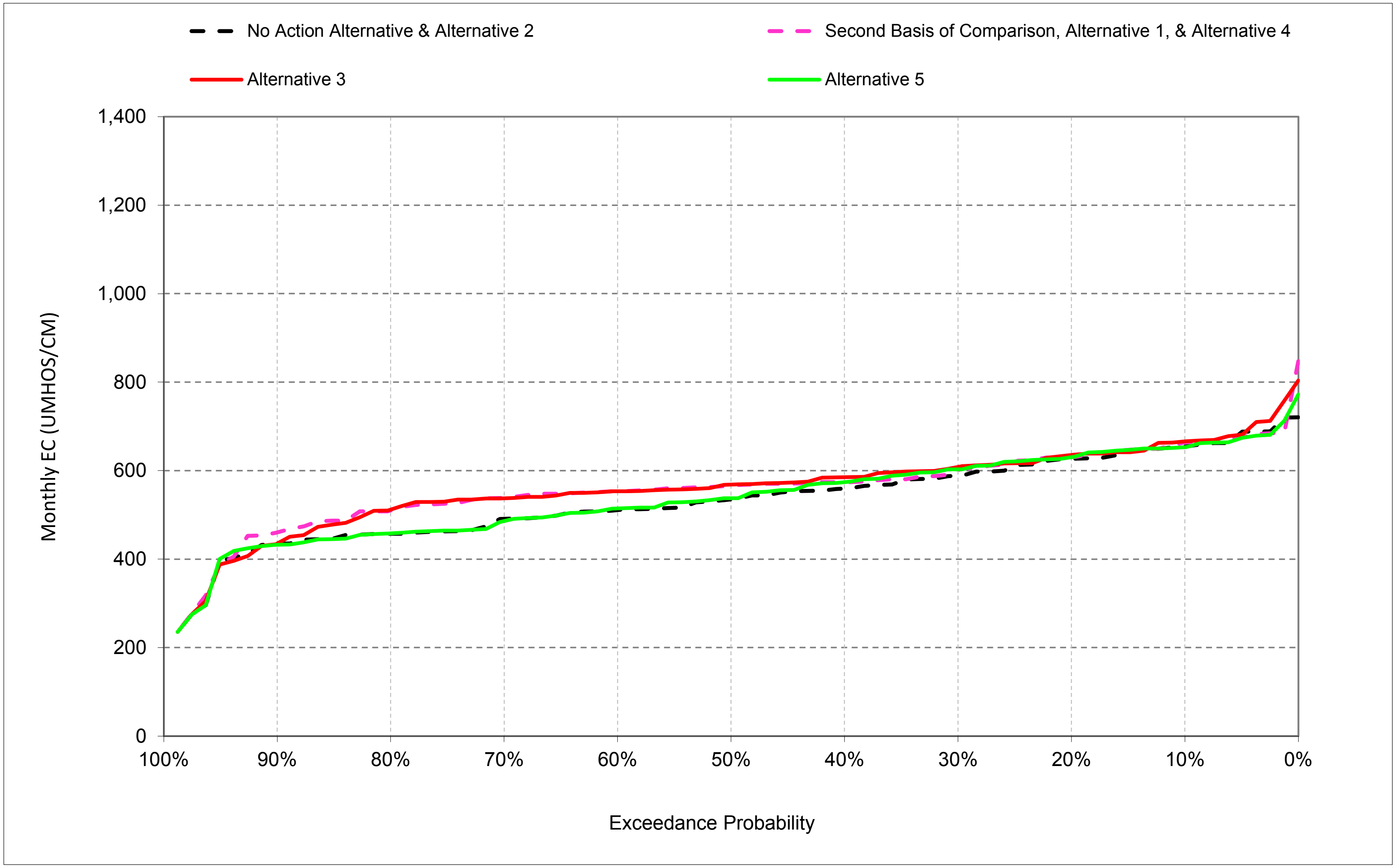
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.11. Jones Pumping Plant Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.7.12. Jones Pumping Plant Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.7.1. Jones Pumping Plant Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	734	805	837	801	816	786	617	561	484	442	576	655
20%	702	688	766	763	712	673	543	543	436	403	517	627
30%	680	637	715	704	688	616	476	498	409	386	485	588
40%	644	610	650	667	653	576	438	449	397	376	432	559
50%	608	545	532	639	604	530	371	397	390	361	411	535
60%	394	406	494	605	541	429	330	376	384	347	374	511
70%	380	367	454	571	484	366	312	362	371	344	353	491
80%	364	344	435	518	409	316	282	316	355	330	341	457
90%	356	334	423	452	326	288	231	205	335	311	327	436
Long Term												
Full Simulation Period[b]	536	529	590	629	583	518	404	410	396	374	430	536
Water Year Types[c]												
Wet (32%)	472	446	495	518	408	337	264	288	352	349	340	462
Above Normal (16%)	606	595	600	624	574	451	353	375	388	343	355	448
Below Normal (13%)	478	460	561	630	621	534	407	433	403	343	418	591
Dry (24%)	537	546	628	692	673	623	486	482	406	384	520	588
Critical (15%)	649	673	745	768	789	792	626	571	476	474	571	652

Alternative 1

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	755	807	831	822	759	665	525	456	450	427	539	664
20%	724	718	777	759	702	605	479	425	421	387	481	630
30%	708	678	747	733	637	544	417	402	394	369	458	601
40%	692	650	720	710	570	509	379	355	373	353	433	574
50%	678	635	703	682	542	475	358	344	363	345	400	568
60%	655	611	682	576	496	426	328	328	352	335	368	554
70%	637	587	626	510	442	375	309	316	342	330	356	542
80%	619	563	539	462	392	320	283	300	331	320	345	519
90%	546	476	431	432	324	295	233	204	298	301	326	469
Long Term												
Full Simulation Period[b]	657	630	668	627	541	478	372	348	372	363	418	563
Water Year Types[c]												
Wet (32%)	608	578	569	481	380	339	261	264	335	341	336	484
Above Normal (16%)	704	657	665	620	512	417	327	319	357	331	358	565
Below Normal (13%)	619	579	670	673	599	500	393	363	348	331	418	568
Dry (24%)	673	644	723	703	613	534	428	394	385	359	479	598
Critical (15%)	724	734	796	779	750	735	545	471	465	481	559	665

Alternative 1 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	21	1	-6	21	-57	-122	-92	-105	-34	-15	-37	9
20%	22	30	11	-4	-10	-68	-63	-119	-15	-16	-36	4
30%	29	42	32	29	-51	-72	-59	-95	-15	-17	-27	13
40%	49	41	70	43	-83	-67	-59	-94	-24	-23	1	15
50%	70	90	171	44	-62	-55	-13	-53	-28	-16	-11	33
60%	261	205	188	-29	-45	-2	-3	-48	-32	-12	-6	43
70%	257	220	172	-62	-42	9	-3	-46	-29	-14	2	51
80%	255	219	104	-56	-17	4	1	-16	-25	-10	4	62
90%	190	143	8	-20	-1	7	2	-1	-37	-10	-1	33
Long Term												
Full Simulation Period[b]	122	101	79	-2	-42	-40	-33	-62	-24	-11	-13	27
Water Year Types[c]												
Wet (32%)	136	132	73	-37	-28	1	-3	-24	-16	-8	-4	22
Above Normal (16%)	98	61	65	-4	-61	-34	-25	-56	-31	-13	3	117
Below Normal (13%)	141	120	109	43	-22	-34	-14	-70	-55	-12	0	-22
Dry (24%)	136	98	95	11	-59	-89	-58	-88	-21	-25	-41	10
Critical (15%)	75	61	51	11	-39	-58	-81	-99	-11	7	-12	13

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.7.2. Jones Pumping Plant Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	734	805	837	801	816	786	617	561	484	442	576	655
20%	702	688	766	763	712	673	543	543	436	403	517	627
30%	680	637	715	704	688	616	476	498	409	386	485	588
40%	644	610	650	667	653	576	438	449	397	376	432	559
50%	608	545	532	639	604	530	371	397	390	361	411	535
60%	394	406	494	605	541	429	330	376	384	347	374	511
70%	380	367	454	571	484	366	312	362	371	344	353	491
80%	364	344	435	518	409	316	282	316	355	330	341	457
90%	356	334	423	452	326	288	231	205	335	311	327	436
Long Term												
Full Simulation Period[b]	536	529	590	629	583	518	404	410	396	374	430	536
Water Year Types[c]												
Wet (32%)	472	446	495	518	408	337	264	288	352	349	340	462
Above Normal (16%)	606	595	600	624	574	451	353	375	388	343	355	448
Below Normal (13%)	478	460	561	630	621	534	407	433	403	343	418	591
Dry (24%)	537	546	628	692	673	623	486	482	406	384	520	588
Critical (15%)	649	673	745	768	789	792	626	571	476	474	571	652

Alternative 3

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	754	802	832	807	811	776	617	576	423	447	582	666
20%	724	713	776	778	734	673	524	526	399	403	513	635
30%	711	672	741	747	683	612	476	476	381	384	469	612
40%	689	647	729	720	643	567	397	428	369	367	437	586
50%	664	631	707	702	594	501	367	369	355	356	407	569
60%	651	619	680	638	525	441	321	348	346	349	370	553
70%	633	602	631	597	458	372	308	330	334	340	351	539
80%	614	566	539	499	390	314	275	306	321	331	337	522
90%	546	492	453	439	305	289	231	205	297	307	319	451
Long Term												
Full Simulation Period[b]	656	637	672	647	574	511	397	399	362	374	424	564
Water Year Types[c]												
Wet (32%)	603	585	580	517	388	337	260	275	328	349	332	473
Above Normal (16%)	715	676	678	661	551	431	335	344	340	342	357	570
Below Normal (13%)	618	576	674	685	615	521	408	431	350	350	428	603
Dry (24%)	665	655	729	720	675	613	477	469	368	378	501	596
Critical (15%)	729	734	771	760	796	798	620	578	460	477	566	664

Alternative 3 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	20	-3	-5	6	-5	-10	0	15	-61	4	7	11
20%	22	25	10	16	21	0	-19	-17	-37	0	-5	9
30%	31	35	26	44	-5	-4	0	-22	-27	-2	-16	23
40%	45	38	78	53	-10	-9	-41	-21	-28	-8	5	26
50%	56	86	175	63	-10	-30	-4	-29	-35	-4	-4	34
60%	257	213	186	33	-16	13	-10	-28	-37	2	-4	42
70%	252	235	177	25	-25	6	-4	-32	-37	-4	-3	48
80%	250	222	104	-19	-18	-2	-8	-10	-35	1	-5	64
90%	190	159	30	-13	-21	1	0	0	-38	-4	-8	15
Long Term												
Full Simulation Period[b]	121	108	83	19	-10	-7	-7	-11	-34	0	-6	28
Water Year Types[c]												
Wet (32%)	131	139	85	-2	-21	-1	-5	-13	-24	1	-8	11
Above Normal (16%)	109	80	78	37	-23	-20	-18	-31	-48	-2	2	122
Below Normal (13%)	140	116	113	55	-6	-14	1	-2	-53	7	11	13
Dry (24%)	128	109	101	29	2	-10	-10	-12	-38	-6	-18	8
Critical (15%)	80	61	26	-7	7	5	-5	7	-16	4	-5	12

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.7.3. Jones Pumping Plant Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	734	805	837	801	816	786	617	561	484	442	576	655
20%	702	688	766	763	712	673	543	543	436	403	517	627
30%	680	637	715	704	688	616	476	498	409	386	485	588
40%	644	610	650	667	653	576	438	449	397	376	432	559
50%	608	545	532	639	604	530	371	397	390	361	411	535
60%	394	406	494	605	541	429	330	376	384	347	374	511
70%	380	367	454	571	484	366	312	362	371	344	353	491
80%	364	344	435	518	409	316	282	316	355	330	341	457
90%	356	334	423	452	326	288	231	205	335	311	327	436
Long Term												
Full Simulation Period[b]	536	529	590	629	583	518	404	410	396	374	430	536
Water Year Types[c]												
Wet (32%)	472	446	495	518	408	337	264	288	352	349	340	462
Above Normal (16%)	606	595	600	624	574	451	353	375	388	343	355	448
Below Normal (13%)	478	460	561	630	621	534	407	433	403	343	418	591
Dry (24%)	537	546	628	692	673	623	486	482	406	384	520	588
Critical (15%)	649	673	745	768	789	792	626	571	476	474	571	652

Alternative 5

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	761	800	832	802	816	786	613	547	531	453	586	653
20%	708	710	758	763	718	673	546	534	459	408	534	630
30%	671	641	722	702	689	616	462	481	434	391	497	603
40%	651	613	656	666	653	576	425	431	417	381	435	574
50%	605	553	533	638	604	530	378	393	400	366	409	538
60%	397	408	495	606	541	429	330	366	391	354	375	515
70%	383	361	457	574	484	369	312	357	378	345	355	486
80%	364	345	429	519	409	317	282	316	359	331	343	458
90%	358	334	423	452	325	288	233	205	345	312	327	433
Long Term												
Full Simulation Period[b]	540	530	589	630	584	519	401	404	411	376	435	540
Water Year Types[c]												
Wet (32%)	474	449	497	518	408	339	265	283	352	350	341	462
Above Normal (16%)	617	593	596	623	574	451	350	364	390	344	355	448
Below Normal (13%)	477	461	561	630	620	534	406	434	416	345	419	596
Dry (24%)	541	545	626	697	675	623	481	486	437	394	535	600
Critical (15%)	653	674	745	769	789	794	617	544	514	468	573	659

Alternative 5 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	27	-5	-5	1	0	0	-4	-14	47	11	10	-2
20%	6	22	-7	0	6	0	3	-9	23	5	17	4
30%	-8	5	8	-1	1	0	-14	-16	25	5	12	15
40%	8	3	6	-1	0	0	-13	-17	20	5	3	14
50%	-3	8	1	-1	0	0	7	-4	10	5	-2	3
60%	3	2	0	0	0	0	0	-10	8	7	1	4
70%	2	-6	3	3	0	3	0	-5	7	2	1	-5
80%	1	1	-6	0	0	1	-1	0	4	1	2	1
90%	2	0	0	0	0	0	2	0	10	1	0	-2
Long Term												
Full Simulation Period[b]	4	1	0	1	0	1	-3	-6	15	2	4	5
Water Year Types[c]												
Wet (32%)	2	4	2	0	0	2	0	-5	0	1	1	0
Above Normal (16%)	11	-3	-5	-1	0	0	-3	-11	2	0	0	0
Below Normal (13%)	0	2	0	0	-1	0	-1	1	12	3	1	5
Dry (24%)	5	-1	-1	5	2	0	-5	4	31	10	15	12
Critical (15%)	4	1	1	1	0	1	-9	-26	38	-5	2	7

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.7.4. Jones Pumping Plant Salinity, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	755	807	831	822	759	665	525	456	450	427	539	664
20%	724	718	777	759	702	605	479	425	421	387	481	630
30%	708	678	747	733	637	544	417	402	394	369	458	601
40%	692	650	720	710	570	509	379	355	373	353	433	574
50%	678	635	703	682	542	475	358	344	363	345	400	568
60%	655	611	682	576	496	426	328	328	352	335	368	554
70%	637	587	626	510	442	375	309	316	342	330	356	542
80%	619	563	539	462	392	320	283	300	331	320	345	519
90%	546	476	431	432	324	295	233	204	298	301	326	469
Long Term												
Full Simulation Period[b]	657	630	668	627	541	478	372	348	372	363	418	563
Water Year Types[c]												
Wet (32%)	608	578	569	481	380	339	261	264	335	341	336	484
Above Normal (16%)	704	657	665	620	512	417	327	319	357	331	358	565
Below Normal (13%)	619	579	670	673	599	500	393	363	348	331	418	568
Dry (24%)	673	644	723	703	613	534	428	394	385	359	479	598
Critical (15%)	724	734	796	779	750	735	545	471	465	481	559	665

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	734	805	837	801	816	786	617	561	484	442	576	655
20%	702	688	766	763	712	673	543	543	436	403	517	627
30%	680	637	715	704	688	616	476	498	409	386	485	588
40%	644	610	650	667	653	576	438	449	397	376	432	559
50%	608	545	532	639	604	530	371	397	390	361	411	535
60%	394	406	494	605	541	429	330	376	384	347	374	511
70%	380	367	454	571	484	366	312	362	371	344	353	491
80%	364	344	435	518	409	316	282	316	355	330	341	457
90%	356	334	423	452	326	288	231	205	335	311	327	436
Long Term												
Full Simulation Period[b]	536	529	590	629	583	518	404	410	396	374	430	536
Water Year Types[c]												
Wet (32%)	472	446	495	518	408	337	264	288	352	349	340	462
Above Normal (16%)	606	595	600	624	574	451	353	375	388	343	355	448
Below Normal (13%)	478	460	561	630	621	534	407	433	403	343	418	591
Dry (24%)	537	546	628	692	673	623	486	482	406	384	520	588
Critical (15%)	649	673	745	768	789	792	626	571	476	474	571	652

No Action Alternative minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-21	-1	6	-21	57	122	92	105	34	15	37	-9
20%	-22	-30	-11	4	10	68	63	119	15	16	36	-4
30%	-29	-42	-32	-29	51	72	59	95	15	17	27	-13
40%	-49	-41	-70	-43	83	67	59	94	24	23	-1	-15
50%	-70	-90	-171	-44	62	55	13	53	28	16	11	-33
60%	-261	-205	-188	29	45	2	3	48	32	12	6	-43
70%	-257	-220	-172	62	42	-9	3	46	29	14	-2	-51
80%	-255	-219	-104	56	17	-4	-1	16	25	10	-4	-62
90%	-190	-143	-8	20	1	-7	-2	1	37	10	1	-33
Long Term												
Full Simulation Period[b]	-122	-101	-79	2	42	40	33	62	24	11	13	-27
Water Year Types[c]												
Wet (32%)	-136	-132	-73	37	28	-1	3	24	16	8	4	-22
Above Normal (16%)	-98	-61	-65	4	61	34	25	56	31	13	-3	-117
Below Normal (13%)	-141	-120	-109	-43	22	34	14	70	55	12	0	22
Dry (24%)	-136	-98	-95	-11	59	89	58	88	21	25	41	-10
Critical (15%)	-75	-61	-51	-11	39	58	81	99	11	-7	12	-13

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.7.5. Jones Pumping Plant Salinity, Monthly EC

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	755	807	831	822	759	665	525	456	450	427	539	664
20%	724	718	777	759	702	605	479	425	421	387	481	630
30%	708	678	747	733	637	544	417	402	394	369	458	601
40%	692	650	720	710	570	509	379	355	373	353	433	574
50%	678	635	703	682	542	475	358	344	363	345	400	568
60%	655	611	682	576	496	426	328	328	352	335	368	554
70%	637	587	626	510	442	375	309	316	342	330	356	542
80%	619	563	539	462	392	320	283	300	331	320	345	519
90%	546	476	431	432	324	295	233	204	298	301	326	469
Long Term												
Full Simulation Period[b]	657	630	668	627	541	478	372	348	372	363	418	563
Water Year Types[c]												
Wet (32%)	608	578	569	481	380	339	261	264	335	341	336	484
Above Normal (16%)	704	657	665	620	512	417	327	319	357	331	358	565
Below Normal (13%)	619	579	670	673	599	500	393	363	348	331	418	568
Dry (24%)	673	644	723	703	613	534	428	394	385	359	479	598
Critical (15%)	724	734	796	779	750	735	545	471	465	481	559	665

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	754	802	832	807	811	776	617	576	423	447	582	666
20%	724	713	776	778	734	673	524	526	399	403	513	635
30%	711	672	741	747	683	612	476	476	381	384	469	612
40%	689	647	729	720	643	567	397	428	369	367	437	586
50%	664	631	707	702	594	501	367	369	355	356	407	569
60%	651	619	680	638	525	441	321	348	346	349	370	553
70%	633	602	631	597	458	372	308	330	334	340	351	539
80%	614	566	539	499	390	314	275	306	321	331	337	522
90%	546	492	453	439	305	289	231	205	297	307	319	451
Long Term												
Full Simulation Period[b]	656	637	672	647	574	511	397	399	362	374	424	564
Water Year Types[c]												
Wet (32%)	603	585	580	517	388	337	260	275	328	349	332	473
Above Normal (16%)	715	676	678	661	551	431	335	344	340	342	357	570
Below Normal (13%)	618	576	674	685	615	521	408	431	350	350	428	603
Dry (24%)	665	655	729	720	675	613	477	469	368	378	501	596
Critical (15%)	729	734	771	760	796	798	620	578	460	477	566	664

Alternative 3 minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	-1	-5	1	-14	52	112	92	120	-27	20	43	2
20%	0	-5	-1	20	31	68	44	102	-22	15	31	5
30%	2	-6	-5	15	46	68	59	74	-13	15	11	11
40%	-3	-3	9	10	73	58	18	73	-4	14	4	12
50%	-13	-4	4	19	52	25	9	24	-7	12	7	1
60%	-4	8	-2	62	29	15	-7	20	-5	14	1	-1
70%	-4	15	5	87	16	-3	-1	14	-8	10	-5	-3
80%	-4	3	0	37	-1	-5	-8	6	-10	11	-8	3
90%	0	16	22	6	-19	-6	-2	2	-1	6	-7	-18
Long Term												
Full Simulation Period[b]	-1	7	4	21	32	33	26	51	-10	11	6	1
Water Year Types[c]												
Wet (32%)	-5	7	11	35	8	-2	-2	11	-7	8	-4	-11
Above Normal (16%)	11	19	13	41	38	14	7	25	-18	11	-1	4
Below Normal (13%)	-1	-3	4	12	15	21	15	68	3	19	10	35
Dry (24%)	-8	11	6	18	61	79	49	76	-17	19	23	-2
Critical (15%)	5	0	-25	-19	46	63	76	107	-5	-3	7	-1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.7.6. Jones Pumping Plant Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	755	807	831	822	759	665	525	456	450	427	539	664
20%	724	718	777	759	702	605	479	425	421	387	481	630
30%	708	678	747	733	637	544	417	402	394	369	458	601
40%	692	650	720	710	570	509	379	355	373	353	433	574
50%	678	635	703	682	542	475	358	344	363	345	400	568
60%	655	611	682	576	496	426	328	328	352	335	368	554
70%	637	587	626	510	442	375	309	316	342	330	356	542
80%	619	563	539	462	392	320	283	300	331	320	345	519
90%	546	476	431	432	324	295	233	204	298	301	326	469
Long Term												
Full Simulation Period[b]	657	630	668	627	541	478	372	348	372	363	418	563
Water Year Types[c]												
Wet (32%)	608	578	569	481	380	339	261	264	335	341	336	484
Above Normal (16%)	704	657	665	620	512	417	327	319	357	331	358	565
Below Normal (13%)	619	579	670	673	599	500	393	363	348	331	418	568
Dry (24%)	673	644	723	703	613	534	428	394	385	359	479	598
Critical (15%)	724	734	796	779	750	735	545	471	465	481	559	665

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	761	800	832	802	816	786	613	547	531	453	586	653
20%	708	710	758	763	718	673	546	534	459	408	534	630
30%	671	641	722	702	689	616	462	481	434	391	497	603
40%	651	613	656	666	653	576	425	431	417	381	435	574
50%	605	553	533	638	604	530	378	393	400	366	409	538
60%	397	408	495	606	541	429	330	366	391	354	375	515
70%	383	361	457	574	484	369	312	357	378	345	355	486
80%	364	345	429	519	409	317	282	316	359	331	343	458
90%	358	334	423	452	325	288	233	205	345	312	327	433
Long Term												
Full Simulation Period[b]	540	530	589	630	584	519	401	404	411	376	435	540
Water Year Types[c]												
Wet (32%)	474	449	497	518	408	339	265	283	352	350	341	462
Above Normal (16%)	617	593	596	623	574	451	350	364	390	344	355	448
Below Normal (13%)	477	461	561	630	620	534	406	434	416	345	419	596
Dry (24%)	541	545	626	697	675	623	481	486	437	394	535	600
Critical (15%)	653	674	745	769	789	794	617	544	514	468	573	659

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	6	-7	1	-20	57	122	88	91	81	26	47	-11
20%	-16	-8	-18	5	16	68	66	109	38	20	53	0
30%	-37	-37	-24	-31	52	72	46	79	40	22	40	2
40%	-41	-37	-64	-44	83	67	46	76	44	28	1	0
50%	-73	-81	-170	-45	62	55	20	49	37	21	9	-31
60%	-258	-203	-188	29	45	2	3	38	40	19	7	-40
70%	-255	-226	-170	65	42	-6	3	41	36	16	-1	-56
80%	-254	-219	-110	56	17	-2	-1	16	28	11	-1	-61
90%	-188	-142	-8	20	1	-7	0	1	47	11	1	-35
Long Term												
Full Simulation Period[b]	-118	-100	-79	4	42	40	30	56	39	14	17	-22
Water Year Types[c]												
Wet (32%)	-134	-129	-71	37	28	0	3	19	17	9	5	-22
Above Normal (16%)	-87	-64	-69	3	61	34	22	45	33	13	-3	-117
Below Normal (13%)	-142	-118	-109	-43	21	34	13	71	68	15	0	28
Dry (24%)	-132	-98	-96	-5	62	89	53	92	52	35	56	2
Critical (15%)	-71	-60	-51	-10	39	59	72	73	48	-12	14	-6

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

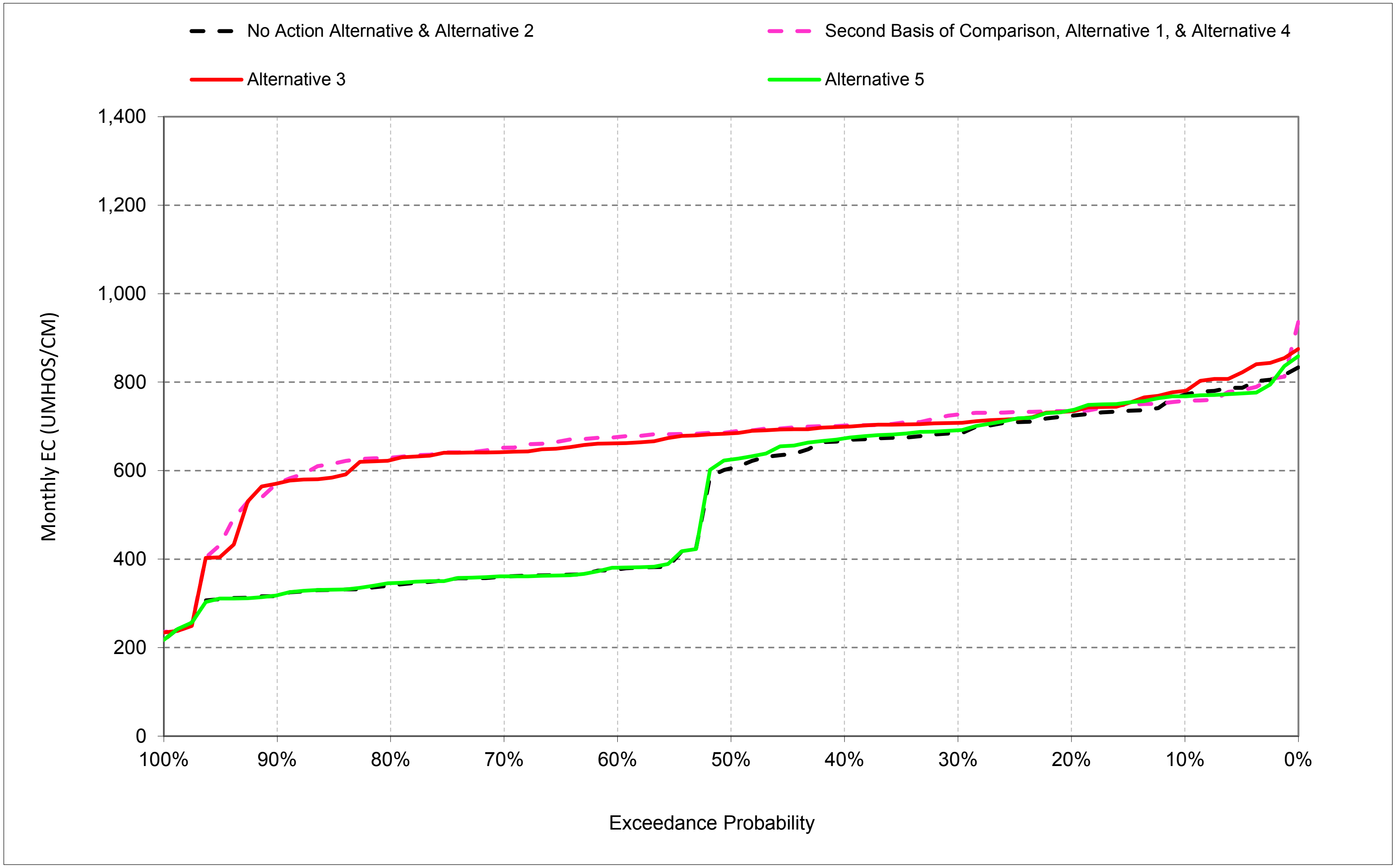
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

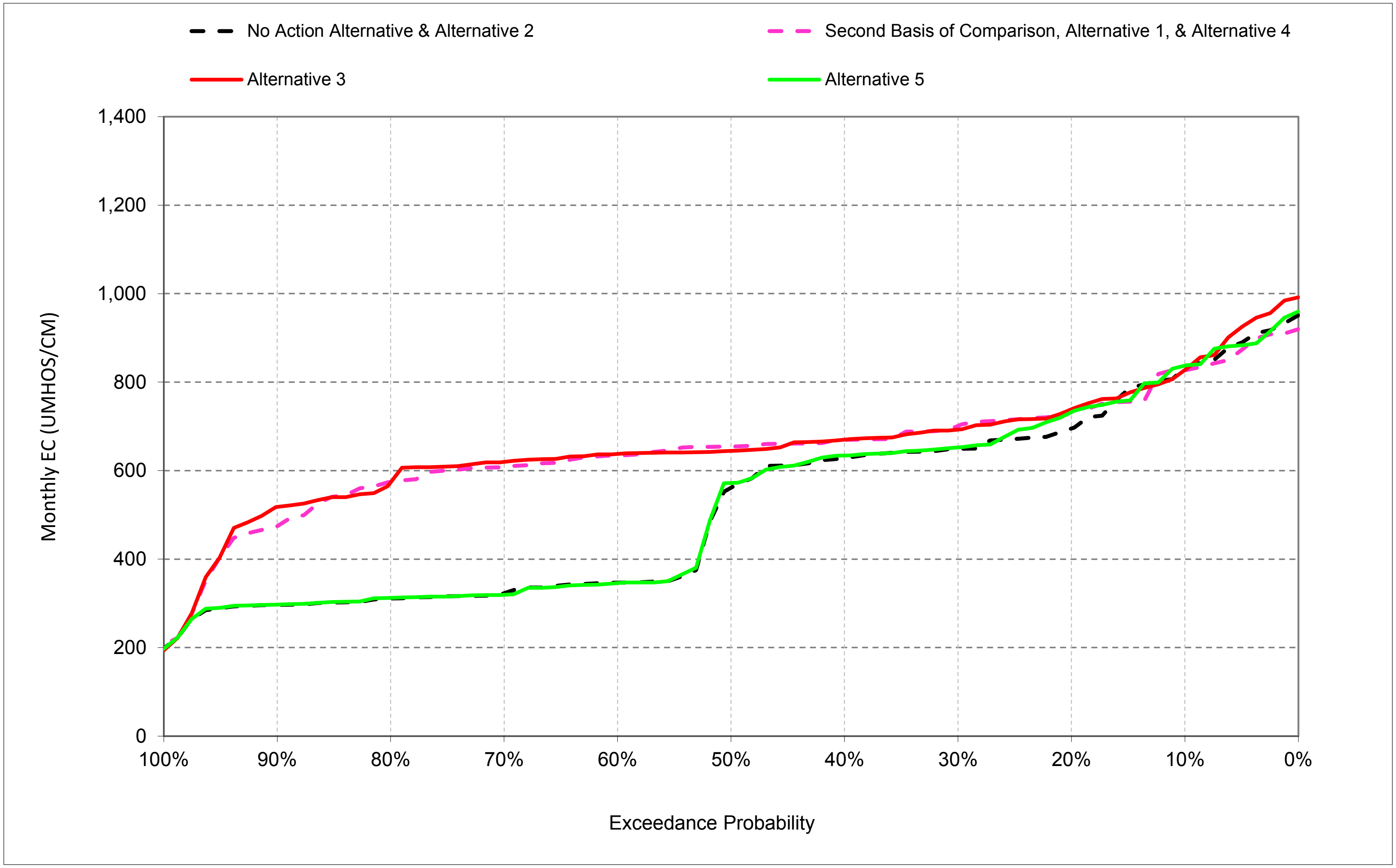
B.8. Banks Pumping Plant Salinity

Figure 6E.B.8.1. Banks Pumping Plant Salinity, Electrical Conductivity, October



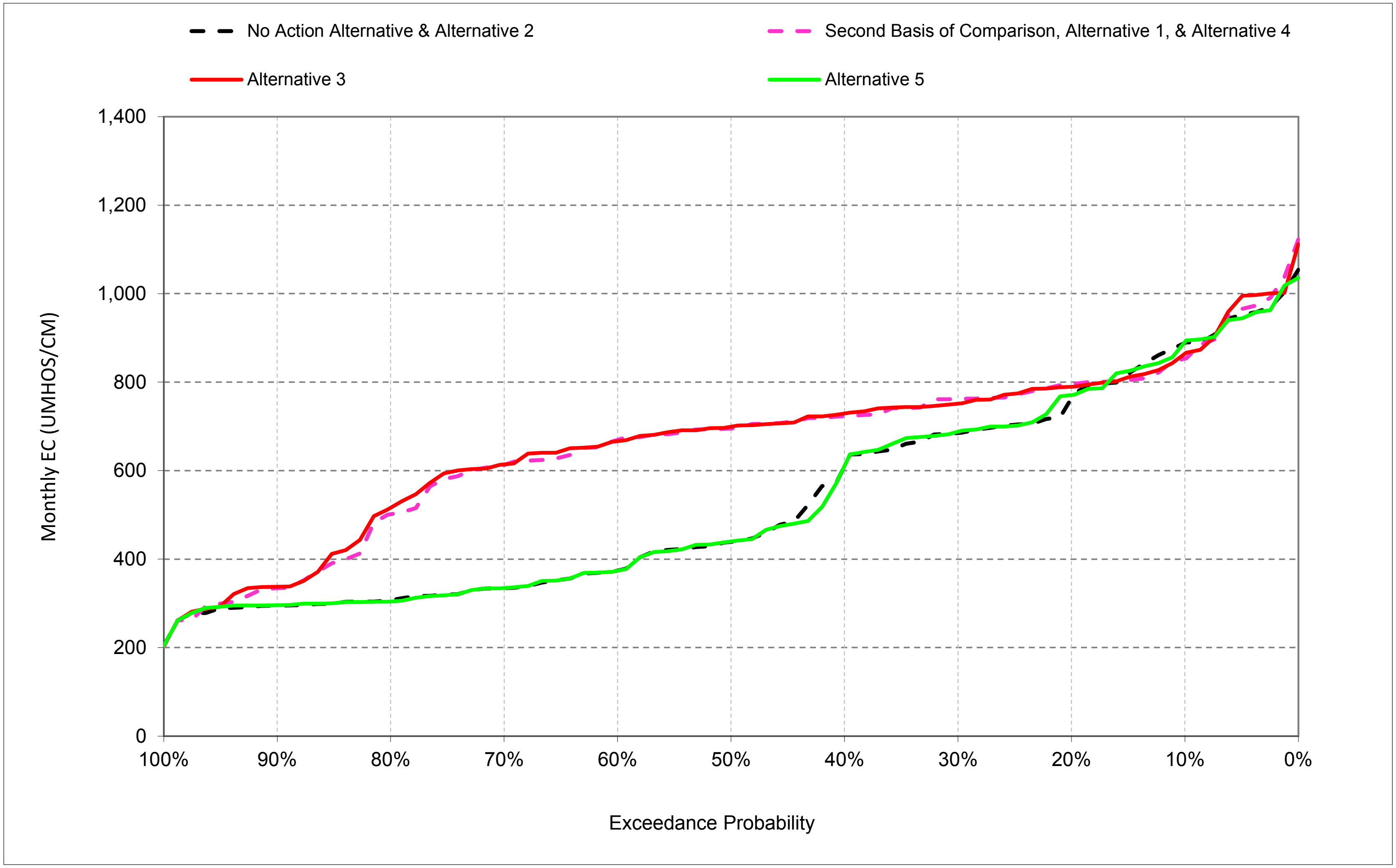
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.2. Banks Pumping Plant Salinity, Electrical Conductivity, November



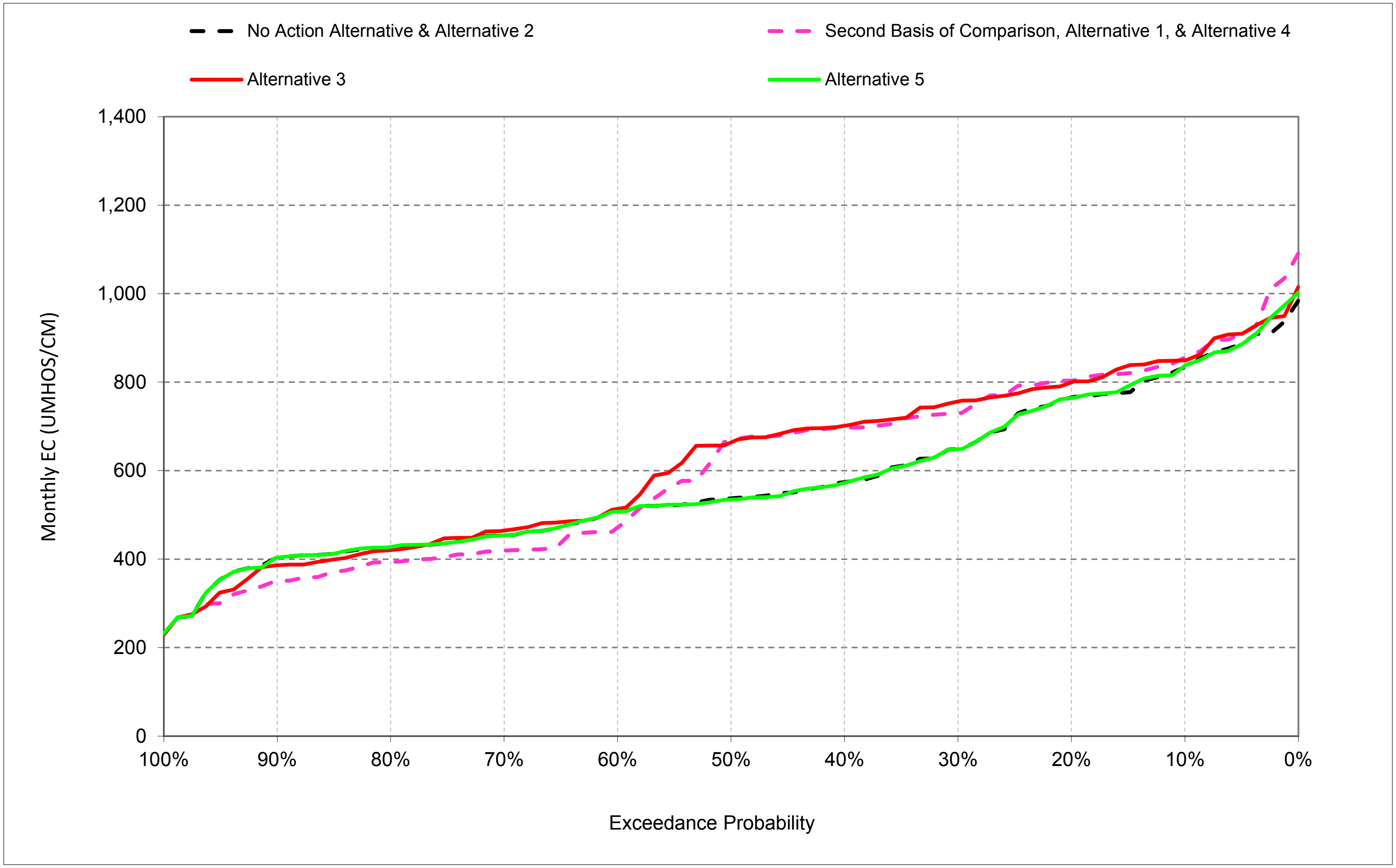
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.3. Banks Pumping Plant Salinity, Electrical Conductivity, December



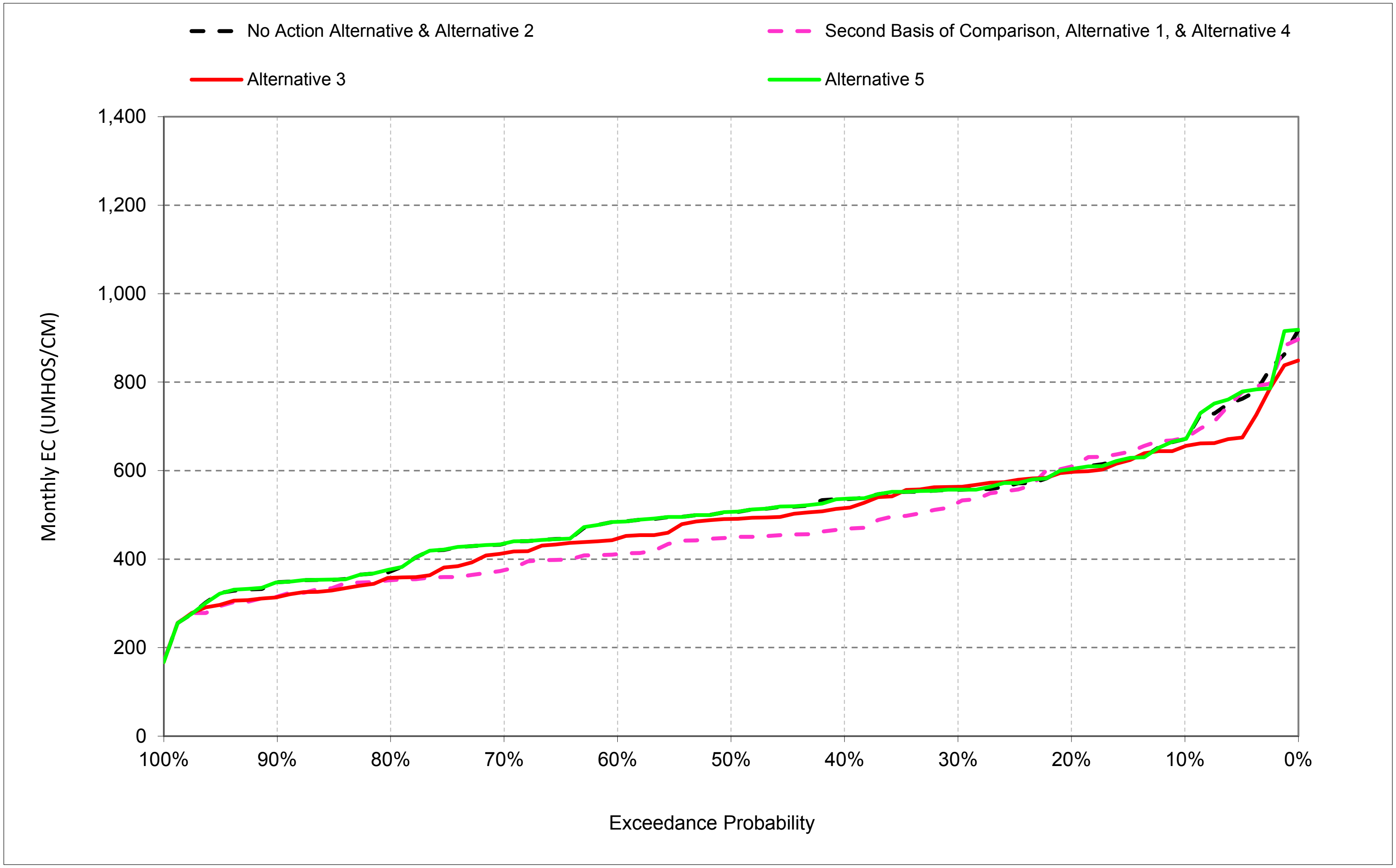
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.4. Banks Pumping Plant Salinity, Electrical Conductivity, January



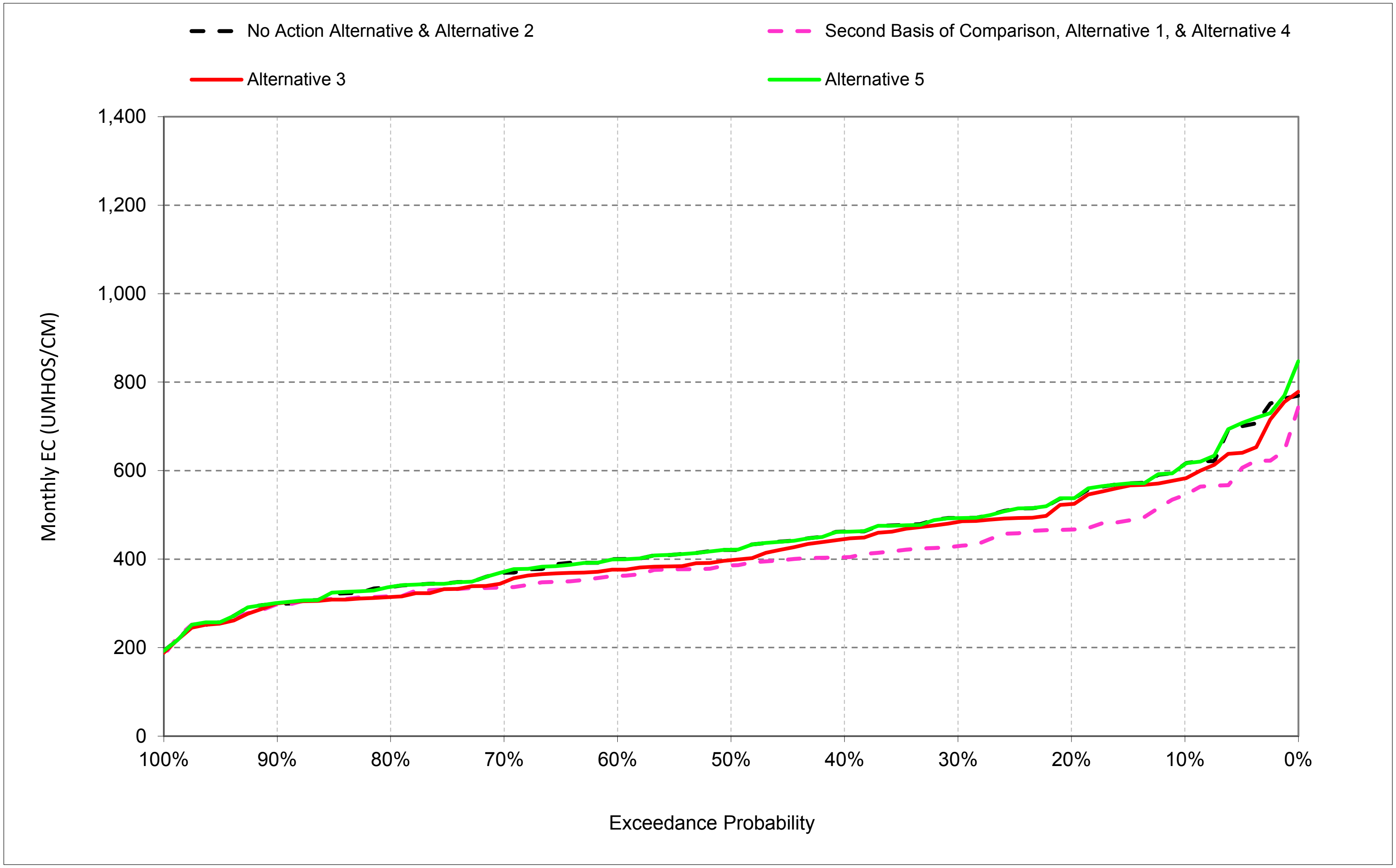
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.5. Banks Pumping Plant Salinity, Electrical Conductivity, February



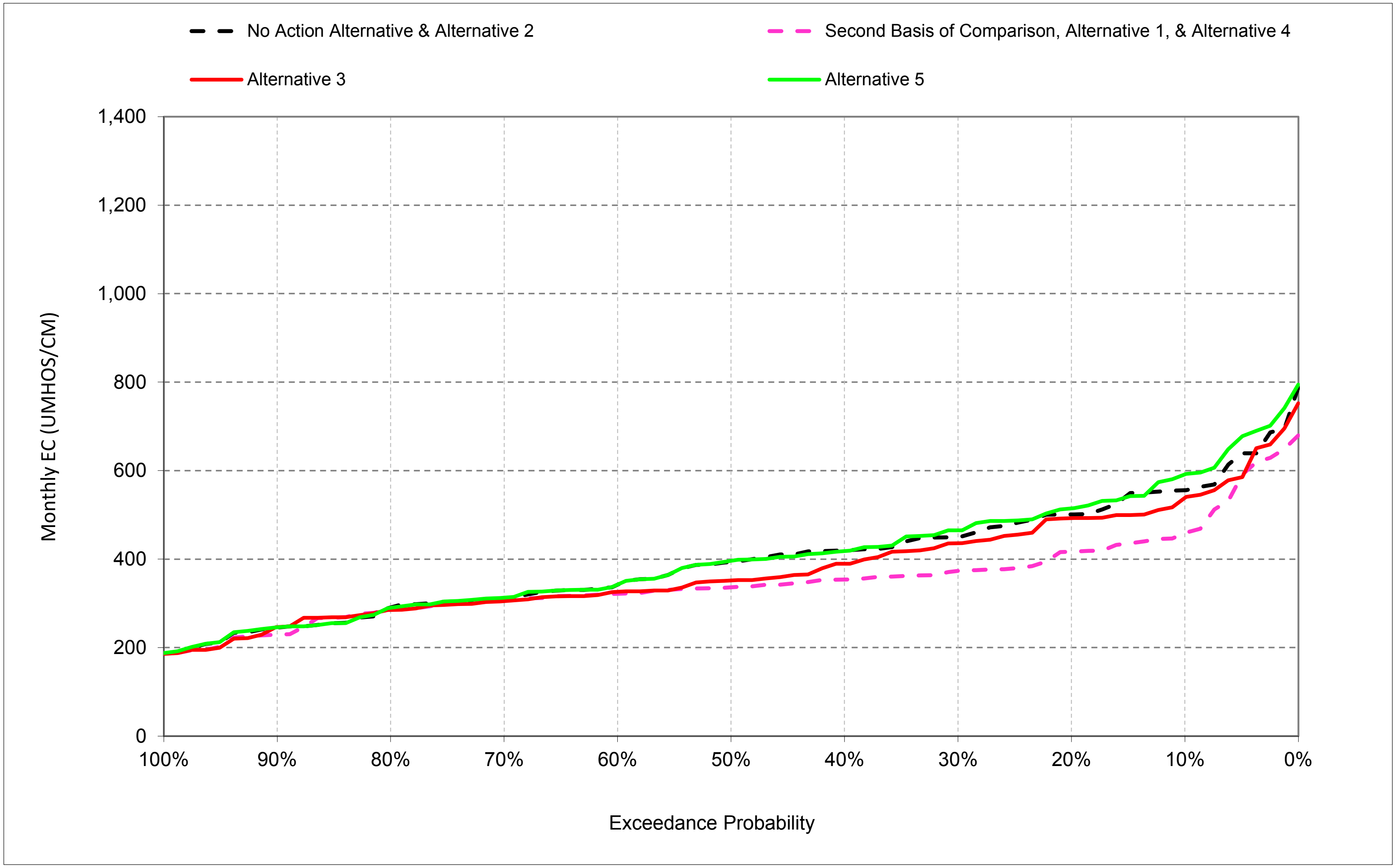
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.6. Banks Pumping Plant Salinity, Electrical Conductivity, March



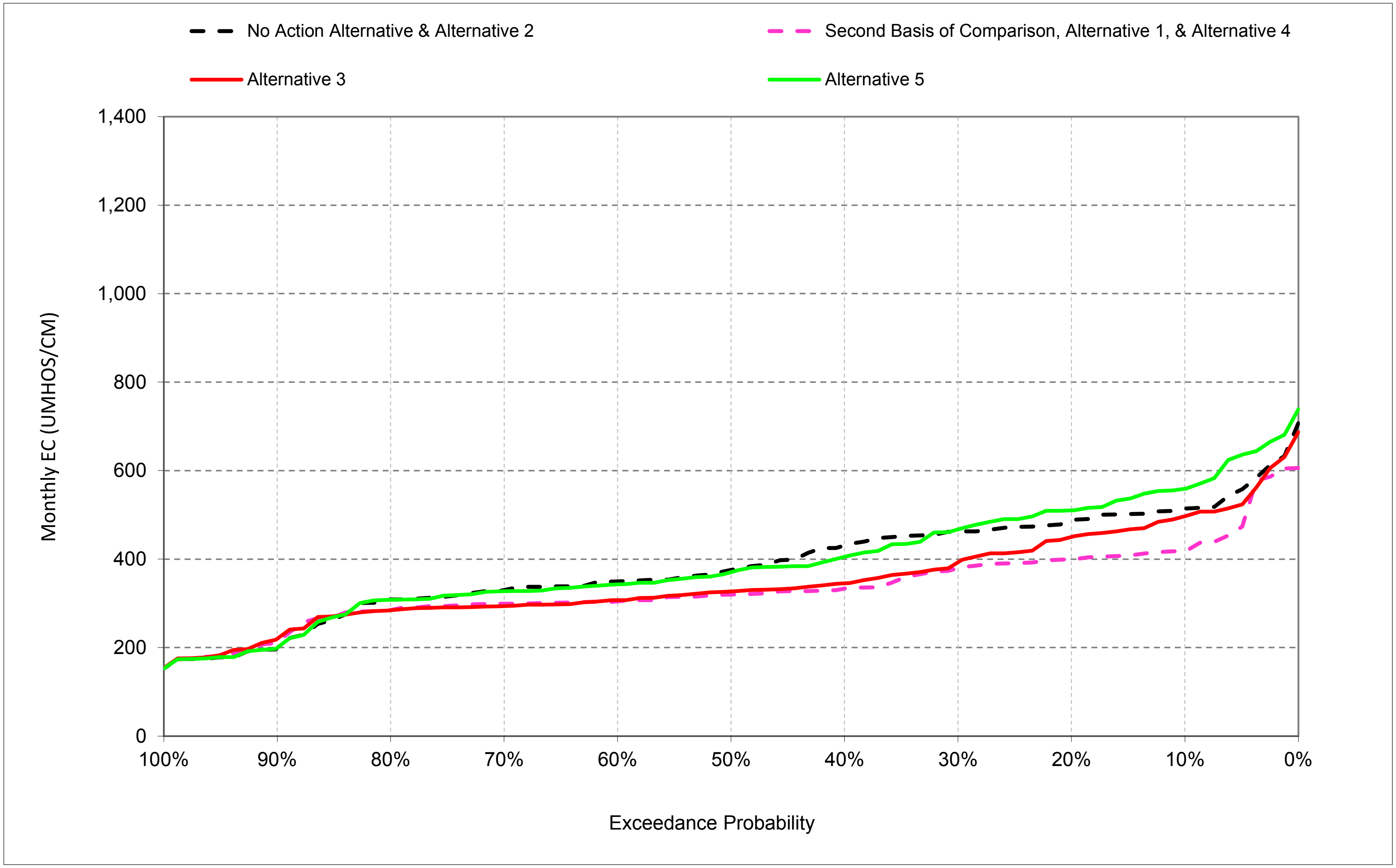
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.7. Banks Pumping Plant Salinity, Electrical Conductivity, April



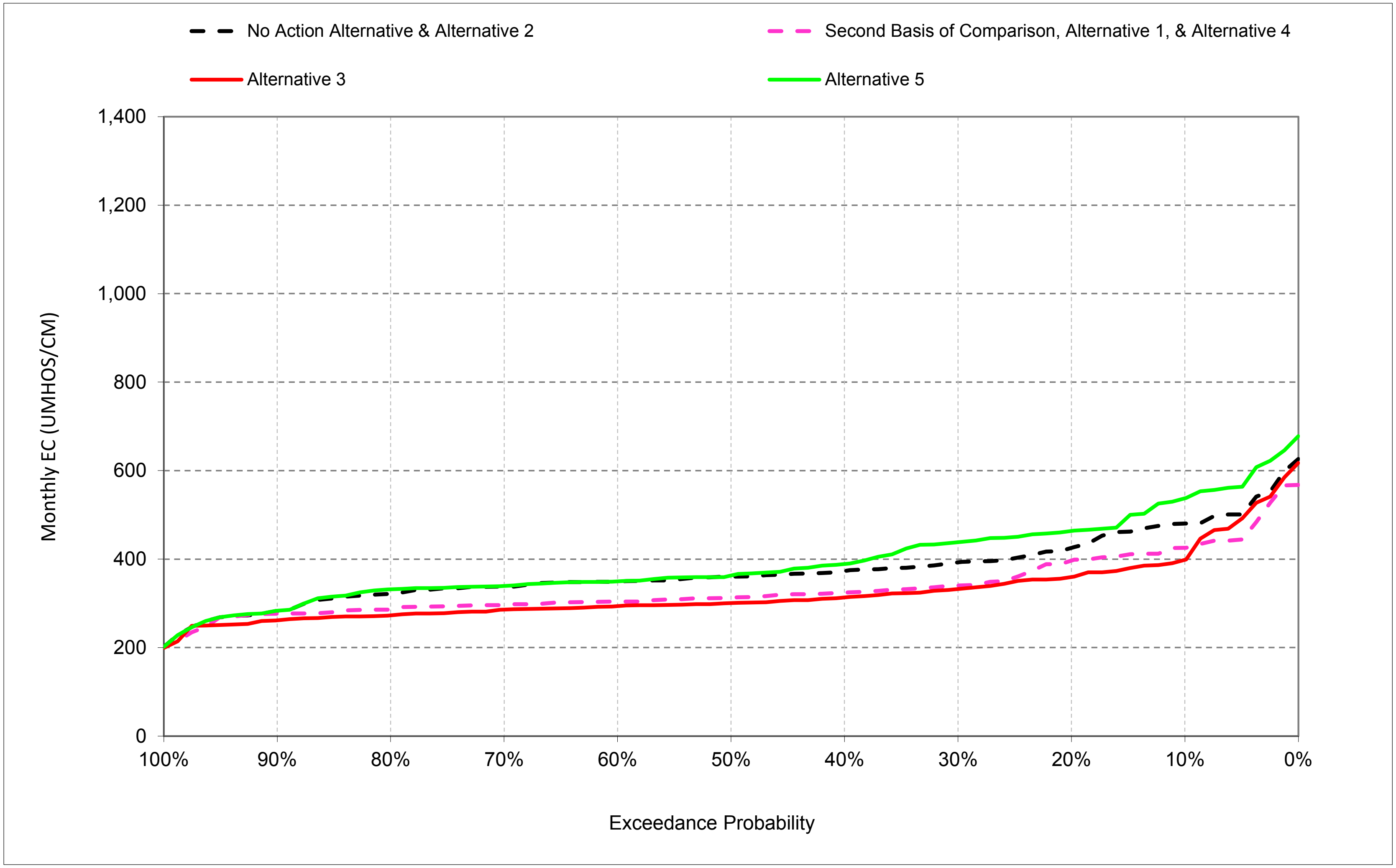
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.8. Banks Pumping Plant Salinity, Electrical Conductivity, May



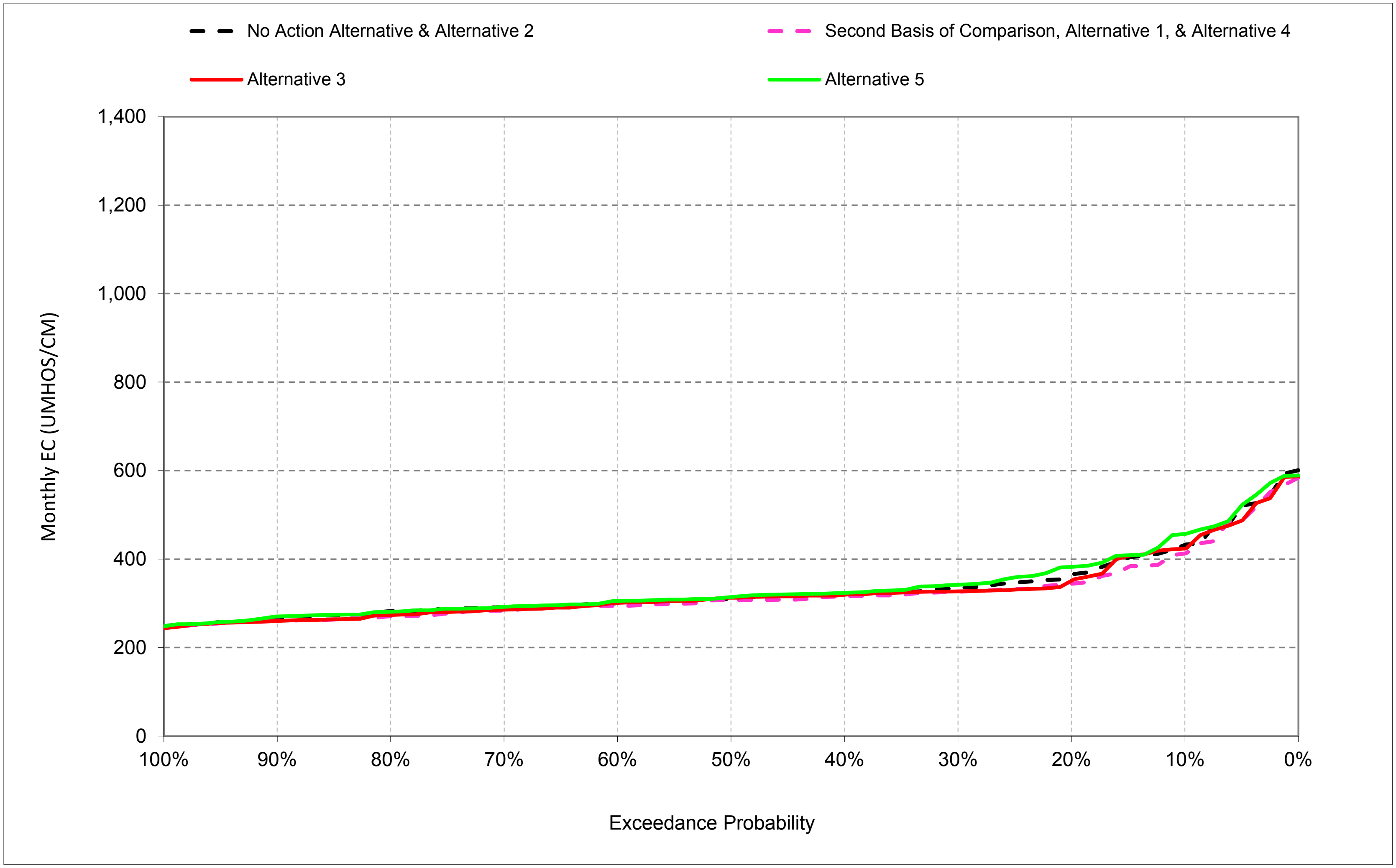
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.9. Banks Pumping Plant Salinity, Electrical Conductivity, June



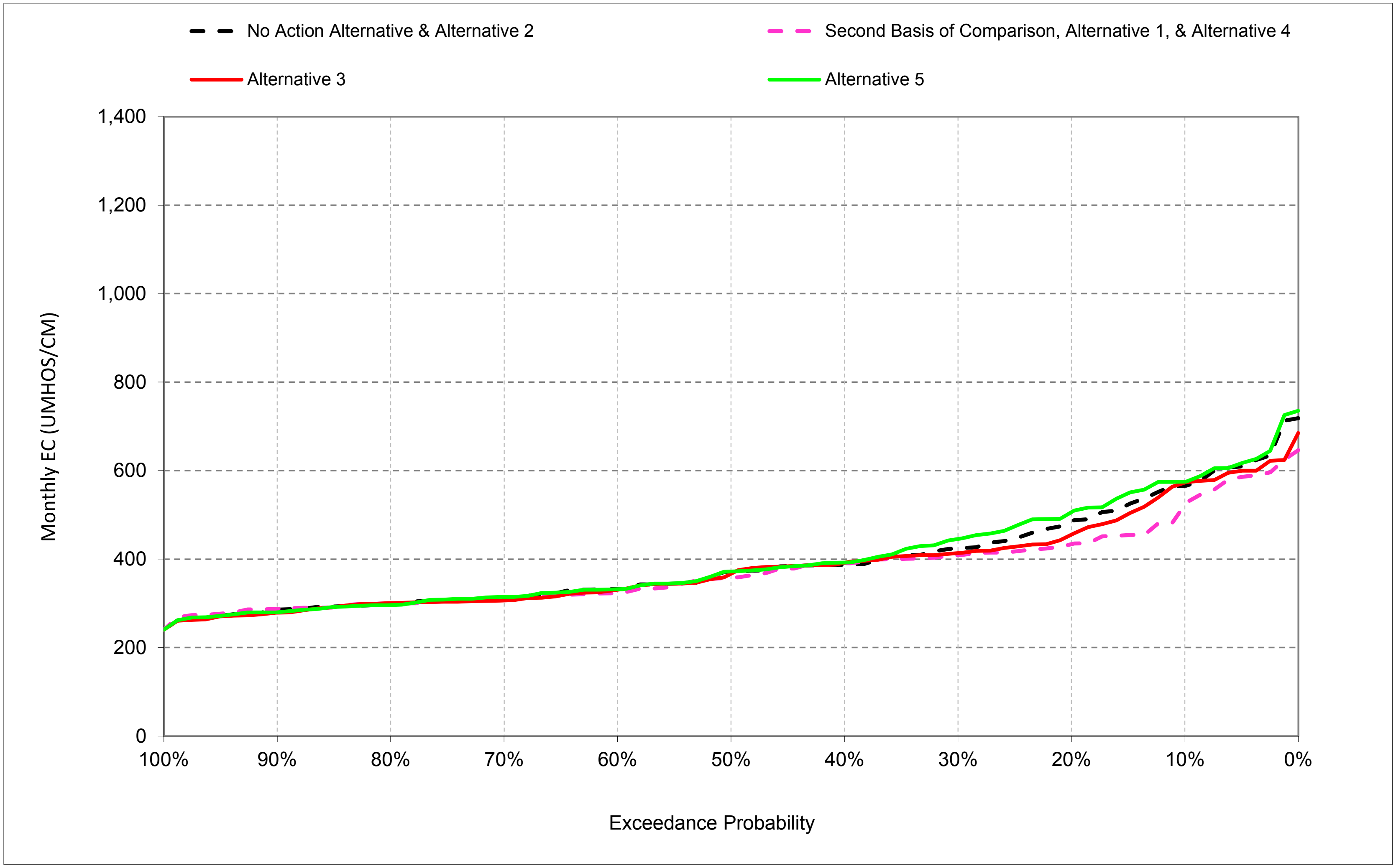
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.10. Banks Pumping Plant Salinity, Electrical Conductivity, July



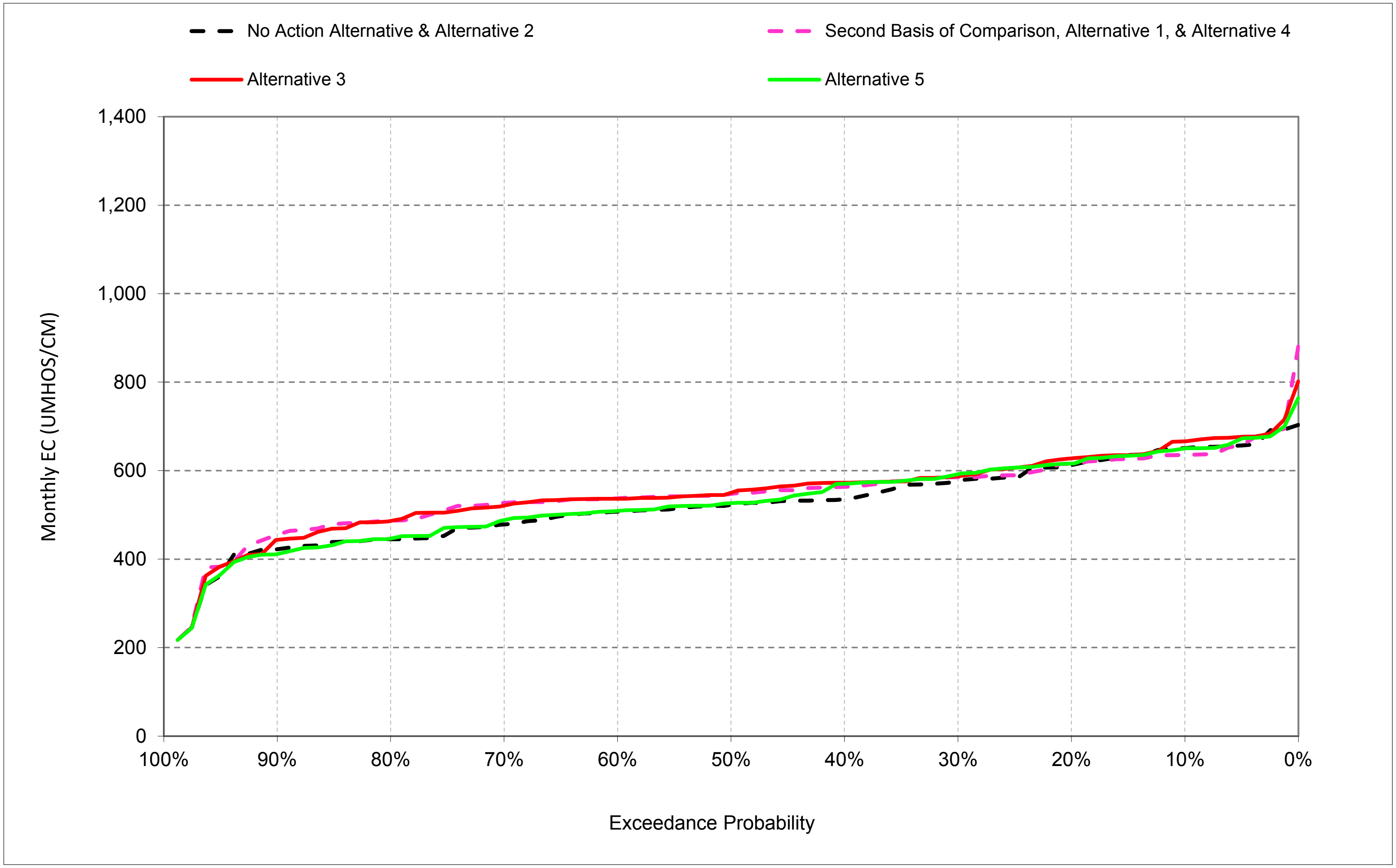
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.11. Banks Pumping Plant Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.8.12. Banks Pumping Plant Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.8.1. Banks Pumping Plant Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	771	833	888	834	671	615	556	514	481	432	566	651
20%	724	695	763	765	603	538	501	487	425	364	485	612
30%	684	649	685	649	557	493	451	462	393	335	424	577
40%	668	628	610	574	536	462	420	431	373	322	387	536
50%	605	561	439	537	506	421	394	376	361	311	371	523
60%	377	347	374	507	484	400	342	350	349	301	332	507
70%	360	323	334	454	435	369	312	330	338	292	314	478
80%	340	311	307	427	372	337	291	309	322	282	299	445
90%	317	296	295	403	348	299	245	198	283	268	286	422
Long Term												
Full Simulation Period[b]	534	521	532	575	508	442	398	386	374	333	394	525
Water Year Types[c]												
Wet (32%)	468	426	410	443	392	329	272	270	310	290	304	463
Above Normal (16%)	611	599	557	558	501	406	357	355	352	283	309	434
Below Normal (13%)	478	438	485	568	528	464	417	417	393	309	378	582
Dry (24%)	529	538	572	654	557	495	464	444	388	349	489	575
Critical (15%)	654	689	745	754	667	618	587	548	501	475	535	619

Alternative 1

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	758	827	853	856	674	545	459	419	426	413	523	635
20%	735	734	796	804	609	467	417	399	397	344	434	616
30%	727	701	762	730	528	429	374	379	340	326	409	585
40%	702	670	723	697	468	404	354	333	324	316	391	564
50%	688	655	695	668	449	386	336	320	313	307	358	549
60%	676	634	669	472	411	362	322	304	304	294	324	539
70%	652	609	613	419	375	336	306	299	297	284	310	528
80%	629	575	502	393	352	316	286	285	287	271	300	488
90%	571	474	334	351	315	297	229	213	277	261	287	464
Long Term												
Full Simulation Period[b]	668	646	658	603	475	400	352	336	335	324	378	548
Water Year Types[c]												
Wet (32%)	620	594	548	421	349	319	264	254	292	289	300	479
Above Normal (16%)	708	667	649	593	442	368	319	304	300	274	312	554
Below Normal (13%)	634	594	649	654	561	443	379	347	305	293	381	553
Dry (24%)	684	664	722	700	519	414	377	371	354	333	436	583
Critical (15%)	731	755	809	802	635	546	512	477	460	465	521	631

Alternative 1 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	-14	-5	-35	21	3	-70	-97	-95	-55	-19	-43	-15
20%	10	39	33	38	6	-71	-84	-87	-29	-20	-51	3
30%	43	52	77	81	-29	-63	-77	-83	-52	-9	-16	8
40%	33	41	113	123	-68	-58	-66	-98	-49	-6	4	28
50%	83	93	256	131	-58	-35	-58	-56	-48	-4	-13	26
60%	299	288	295	-36	-73	-38	-20	-45	-45	-6	-8	32
70%	291	286	279	-35	-60	-33	-5	-31	-41	-8	-4	50
80%	289	264	194	-33	-20	-21	-4	-24	-35	-12	1	43
90%	254	178	39	-52	-32	-2	-16	15	-6	-7	1	42
Long Term												
Full Simulation Period[b]	134	125	126	28	-33	-43	-46	-51	-40	-9	-16	24
Water Year Types[c]												
Wet (32%)	152	168	137	-22	-43	-11	-8	-16	-18	-1	-5	15
Above Normal (16%)	97	69	92	35	-59	-38	-38	-51	-52	-9	2	120
Below Normal (13%)	157	156	164	86	33	-21	-38	-70	-88	-17	3	-29
Dry (24%)	155	126	149	46	-38	-81	-87	-72	-34	-16	-53	8
Critical (15%)	78	66	64	48	-32	-72	-76	-70	-40	-10	-14	11

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.8.2. Banks Pumping Plant Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	771	833	888	834	671	615	556	514	481	432	566	651
20%	724	695	763	765	603	538	501	487	425	364	485	612
30%	684	649	685	649	557	493	451	462	393	335	424	577
40%	668	628	610	574	536	462	420	431	373	322	387	536
50%	605	561	439	537	506	421	394	376	361	311	371	523
60%	377	347	374	507	484	400	342	350	349	301	332	507
70%	360	323	334	454	435	369	312	330	338	292	314	478
80%	340	311	307	427	372	337	291	309	322	282	299	445
90%	317	296	295	403	348	299	245	198	283	268	286	422
Long Term												
Full Simulation Period[b]	534	521	532	575	508	442	398	386	374	333	394	525
Water Year Types[c]												
Wet (32%)	468	426	410	443	392	329	272	270	310	290	304	463
Above Normal (16%)	611	599	557	558	501	406	357	355	352	283	309	434
Below Normal (13%)	478	438	485	568	528	464	417	417	393	309	378	582
Dry (24%)	529	538	572	654	557	495	464	444	388	349	489	575
Critical (15%)	654	689	745	754	667	618	587	548	501	475	535	619

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	780	827	864	849	655	582	538	497	398	424	573	666
20%	734	739	790	799	597	525	493	450	360	351	455	628
30%	708	693	751	756	563	484	436	393	333	327	413	591
40%	699	670	729	701	515	445	390	345	313	319	392	573
50%	684	644	699	664	491	398	352	327	301	313	367	556
60%	662	638	667	514	447	376	326	308	294	301	331	537
70%	642	620	614	465	414	348	305	294	286	286	307	527
80%	624	573	516	420	358	314	285	285	273	274	301	494
90%	571	518	338	386	314	300	247	220	261	260	279	446
Long Term												
Full Simulation Period[b]	665	654	662	618	487	426	379	351	325	328	386	551
Water Year Types[c]												
Wet (32%)	615	600	561	459	364	318	267	255	275	287	298	468
Above Normal (16%)	718	690	662	631	482	379	325	303	286	275	310	560
Below Normal (13%)	634	588	650	676	534	447	396	372	318	310	392	598
Dry (24%)	671	674	729	713	543	479	437	393	332	344	465	581
Critical (15%)	732	759	783	738	625	603	570	524	468	463	522	630

Alternative 3 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	9	-6	-24	15	-16	-33	-18	-17	-82	-8	7	15
20%	10	43	26	34	-6	-13	-8	-37	-66	-13	-30	15
30%	24	44	66	107	7	-9	-15	-69	-60	-8	-11	14
40%	31	42	119	128	-21	-17	-30	-86	-60	-3	5	38
50%	79	83	260	126	-16	-23	-42	-49	-60	1	-4	33
60%	285	291	293	6	-38	-24	-16	-42	-56	0	-1	30
70%	282	297	280	11	-21	-21	-7	-36	-52	-6	-8	48
80%	284	262	209	-6	-14	-23	-6	-24	-49	-9	2	49
90%	254	222	43	-17	-33	1	1	22	-21	-8	-7	24
Long Term												
Full Simulation Period[b]	131	133	130	43	-21	-17	-19	-35	-50	-5	-8	27
Water Year Types[c]												
Wet (32%)	147	174	151	17	-28	-12	-6	-15	-34	-3	-6	5
Above Normal (16%)	107	92	105	72	-20	-27	-32	-52	-66	-7	1	126
Below Normal (13%)	156	150	165	108	6	-17	-21	-45	-75	0	14	16
Dry (24%)	143	136	157	59	-13	-16	-27	-51	-56	-6	-25	6
Critical (15%)	78	70	38	-16	-42	-16	-18	-24	-33	-12	-13	11

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.8.3. Banks Pumping Plant Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	771	833	888	834	671	615	556	514	481	432	566	651
20%	724	695	763	765	603	538	501	487	425	364	485	612
30%	684	649	685	649	557	493	451	462	393	335	424	577
40%	668	628	610	574	536	462	420	431	373	322	387	536
50%	605	561	439	537	506	421	394	376	361	311	371	523
60%	377	347	374	507	484	400	342	350	349	301	332	507
70%	360	323	334	454	435	369	312	330	338	292	314	478
80%	340	311	307	427	372	337	291	309	322	282	299	445
90%	317	296	295	403	348	299	245	198	283	268	286	422
Long Term												
Full Simulation Period[b]	534	521	532	575	508	442	398	386	374	333	394	525
Water Year Types[c]												
Wet (32%)	468	426	410	443	392	329	272	270	310	290	304	463
Above Normal (16%)	611	599	557	558	501	406	357	355	352	283	309	434
Below Normal (13%)	478	438	485	568	528	464	417	417	393	309	378	582
Dry (24%)	529	538	572	654	557	495	464	444	388	349	489	575
Critical (15%)	654	689	745	754	667	618	587	548	501	475	535	619

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	768	837	890	837	671	615	591	559	537	457	575	650
20%	737	732	771	764	604	538	515	510	464	383	506	616
30%	691	652	688	649	557	493	465	467	438	342	446	592
40%	673	634	610	572	536	462	418	405	389	324	392	570
50%	625	572	440	535	507	421	396	370	363	314	372	526
60%	381	346	374	507	484	400	342	343	350	305	332	509
70%	361	320	335	454	435	371	313	328	339	292	314	488
80%	346	312	304	427	377	337	290	308	332	281	296	447
90%	319	297	296	404	348	301	246	200	284	270	280	418
Long Term												
Full Simulation Period[b]	538	524	532	576	509	444	404	394	394	338	400	531
Water Year Types[c]												
Wet (32%)	470	430	416	443	392	331	273	266	309	290	304	462
Above Normal (16%)	624	606	550	556	501	406	355	346	351	284	309	433
Below Normal (13%)	477	440	486	567	527	463	416	403	400	313	379	589
Dry (24%)	535	538	569	662	561	497	476	466	430	360	512	591
Critical (15%)	659	690	745	752	668	624	613	594	561	486	541	631

Alternative 5 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3	4	2	3	0	0	36	45	57	25	9	-1
20%	12	37	8	-1	1	0	14	23	39	19	21	4
30%	7	3	3	0	0	0	14	5	46	7	21	15
40%	5	6	0	-2	1	0	-1	-26	16	2	5	35
50%	20	11	1	-3	1	0	2	-5	2	3	1	3
60%	4	-1	0	0	0	0	0	-7	0	5	0	2
70%	1	-3	1	0	0	2	1	-3	1	1	0	10
80%	5	1	-3	1	5	0	-1	-1	10	-1	-3	2
90%	1	1	1	1	0	2	1	1	1	3	-6	-4
Long Term												
Full Simulation Period[b]	5	3	0	1	1	1	6	8	20	5	6	6
Water Year Types[c]												
Wet (32%)	2	5	6	0	1	1	1	-3	-1	0	0	-1
Above Normal (16%)	13	7	-6	-2	0	0	-2	-9	-1	1	0	-1
Below Normal (13%)	-1	2	1	-1	-1	-1	-1	-15	7	3	1	6
Dry (24%)	6	0	-4	7	4	1	12	22	42	11	23	16
Critical (15%)	5	1	-1	-2	1	5	25	46	61	10	6	12

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.8.4. Banks Pumping Plant Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	758	827	853	856	674	545	459	419	426	413	523	635
20%	735	734	796	804	609	467	417	399	397	344	434	616
30%	727	701	762	730	528	429	374	379	340	326	409	585
40%	702	670	723	697	468	404	354	333	324	316	391	564
50%	688	655	695	668	449	386	336	320	313	307	358	549
60%	676	634	669	472	411	362	322	304	304	294	324	539
70%	652	609	613	419	375	336	306	299	297	284	310	528
80%	629	575	502	393	352	316	286	285	287	271	300	488
90%	571	474	334	351	315	297	229	213	277	261	287	464
Long Term												
Full Simulation Period[b]	668	646	658	603	475	400	352	336	335	324	378	548
Water Year Types[c]												
Wet (32%)	620	594	548	421	349	319	264	254	292	289	300	479
Above Normal (16%)	708	667	649	593	442	368	319	304	300	274	312	554
Below Normal (13%)	634	594	649	654	561	443	379	347	305	293	381	553
Dry (24%)	684	664	722	700	519	414	377	371	354	333	436	583
Critical (15%)	731	755	809	802	635	546	512	477	460	465	521	631

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	771	833	888	834	671	615	556	514	481	432	566	651
20%	724	695	763	765	603	538	501	487	425	364	485	612
30%	684	649	685	649	557	493	451	462	393	335	424	577
40%	668	628	610	574	536	462	420	431	373	322	387	536
50%	605	561	439	537	506	421	394	376	361	311	371	523
60%	377	347	374	507	484	400	342	350	349	301	332	507
70%	360	323	334	454	435	369	312	330	338	292	314	478
80%	340	311	307	427	372	337	291	309	322	282	299	445
90%	317	296	295	403	348	299	245	198	283	268	286	422
Long Term												
Full Simulation Period[b]	534	521	532	575	508	442	398	386	374	333	394	525
Water Year Types[c]												
Wet (32%)	468	426	410	443	392	329	272	270	310	290	304	463
Above Normal (16%)	611	599	557	558	501	406	357	355	352	283	309	434
Below Normal (13%)	478	438	485	568	528	464	417	417	393	309	378	582
Dry (24%)	529	538	572	654	557	495	464	444	388	349	489	575
Critical (15%)	654	689	745	754	667	618	587	548	501	475	535	619

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14	5	35	-21	-3	70	97	95	55	19	43	15
20%	-10	-39	-33	-38	-6	71	84	87	29	20	51	-3
30%	-43	-52	-77	-81	29	63	77	83	52	9	16	-8
40%	-33	-41	-113	-123	68	58	66	98	49	6	-4	-28
50%	-83	-93	-256	-131	58	35	58	56	48	4	13	-26
60%	-299	-288	-295	36	73	38	20	45	45	6	8	-32
70%	-291	-286	-279	35	60	33	5	31	41	8	4	-50
80%	-289	-264	-194	33	20	21	4	24	35	12	-1	-43
90%	-254	-178	-39	52	32	2	16	-15	6	7	-1	-42
Long Term												
Full Simulation Period[b]	-134	-125	-126	-28	33	43	46	51	40	9	16	-24
Water Year Types[c]												
Wet (32%)	-152	-168	-137	22	43	11	8	16	18	1	5	-15
Above Normal (16%)	-97	-69	-92	-35	59	38	38	51	52	9	-2	-120
Below Normal (13%)	-157	-156	-164	-86	-33	21	38	70	88	17	-3	29
Dry (24%)	-155	-126	-149	-46	38	81	87	72	34	16	53	-8
Critical (15%)	-78	-66	-64	-48	32	72	76	70	40	10	14	-11

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.8.5. Banks Pumping Plant Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	758	827	853	856	674	545	459	419	426	413	523	635
20%	735	734	796	804	609	467	417	399	397	344	434	616
30%	727	701	762	730	528	429	374	379	340	326	409	585
40%	702	670	723	697	468	404	354	333	324	316	391	564
50%	688	655	695	668	449	386	336	320	313	307	358	549
60%	676	634	669	472	411	362	322	304	304	294	324	539
70%	652	609	613	419	375	336	306	299	297	284	310	528
80%	629	575	502	393	352	316	286	285	287	271	300	488
90%	571	474	334	351	315	297	229	213	277	261	287	464
Long Term												
Full Simulation Period[b]	668	646	658	603	475	400	352	336	335	324	378	548
Water Year Types[c]												
Wet (32%)	620	594	548	421	349	319	264	254	292	289	300	479
Above Normal (16%)	708	667	649	593	442	368	319	304	300	274	312	554
Below Normal (13%)	634	594	649	654	561	443	379	347	305	293	381	553
Dry (24%)	684	664	722	700	519	414	377	371	354	333	436	583
Critical (15%)	731	755	809	802	635	546	512	477	460	465	521	631

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	780	827	864	849	655	582	538	497	398	424	573	666
20%	734	739	790	799	597	525	493	450	360	351	455	628
30%	708	693	751	756	563	484	436	393	333	327	413	591
40%	699	670	729	701	515	445	390	345	313	319	392	573
50%	684	644	699	664	491	398	352	327	301	313	367	556
60%	662	638	667	514	447	376	326	308	294	301	331	537
70%	642	620	614	465	414	348	305	294	286	286	307	527
80%	624	573	516	420	358	314	285	285	273	274	301	494
90%	571	518	338	386	314	300	247	220	261	260	279	446
Long Term												
Full Simulation Period[b]	665	654	662	618	487	426	379	351	325	328	386	551
Water Year Types[c]												
Wet (32%)	615	600	561	459	364	318	267	255	275	287	298	468
Above Normal (16%)	718	690	662	631	482	379	325	303	286	275	310	560
Below Normal (13%)	634	588	650	676	534	447	396	372	318	310	392	598
Dry (24%)	671	674	729	713	543	479	437	393	332	344	465	581
Critical (15%)	732	759	783	738	625	603	570	524	468	463	522	630

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	22	0	11	-6	-19	37	79	78	-27	11	50	31
20%	0	4	-6	-4	-12	58	76	51	-37	7	22	12
30%	-19	-8	-11	26	36	55	62	13	-8	1	5	6
40%	-2	0	6	4	47	41	36	12	-11	3	1	10
50%	-4	-10	4	-5	42	12	16	7	-12	5	9	7
60%	-14	3	-3	42	35	14	4	3	-10	7	7	-2
70%	-10	11	1	46	38	12	-2	-5	-11	2	-4	-2
80%	-5	-1	14	27	6	-2	-1	0	-14	3	1	6
90%	0	44	4	35	-1	3	17	7	-15	-1	-8	-18
Long Term												
Full Simulation Period[b]	-3	8	4	15	12	26	27	16	-10	4	8	3
Water Year Types[c]												
Wet (32%)	-5	6	13	39	15	-1	2	1	-16	-1	-2	-11
Above Normal (16%)	10	23	13	38	40	11	6	-1	-14	1	-1	5
Below Normal (13%)	0	-6	1	21	-27	4	17	25	13	17	11	45
Dry (24%)	-13	10	8	13	25	65	61	22	-22	10	29	-2
Critical (15%)	0	5	-26	-64	-10	57	58	47	8	-1	2	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.8.6. Banks Pumping Plant Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	758	827	853	856	674	545	459	419	426	413	523	635
20%	735	734	796	804	609	467	417	399	397	344	434	616
30%	727	701	762	730	528	429	374	379	340	326	409	585
40%	702	670	723	697	468	404	354	333	324	316	391	564
50%	688	655	695	668	449	386	336	320	313	307	358	549
60%	676	634	669	472	411	362	322	304	304	294	324	539
70%	652	609	613	419	375	336	306	299	297	284	310	528
80%	629	575	502	393	352	316	286	285	287	271	300	488
90%	571	474	334	351	315	297	229	213	277	261	287	464
Long Term												
Full Simulation Period[b]	668	646	658	603	475	400	352	336	335	324	378	548
Water Year Types[c]												
Wet (32%)	620	594	548	421	349	319	264	254	292	289	300	479
Above Normal (16%)	708	667	649	593	442	368	319	304	300	274	312	554
Below Normal (13%)	634	594	649	654	561	443	379	347	305	293	381	553
Dry (24%)	684	664	722	700	519	414	377	371	354	333	436	583
Critical (15%)	731	755	809	802	635	546	512	477	460	465	521	631

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	768	837	890	837	671	615	591	559	537	457	575	650
20%	737	732	771	764	604	538	515	510	464	383	506	616
30%	691	652	688	649	557	493	465	467	438	342	446	592
40%	673	634	610	572	536	462	418	405	389	324	392	570
50%	625	572	440	535	507	421	396	370	363	314	372	526
60%	381	346	374	507	484	400	342	343	350	305	332	509
70%	361	320	335	454	435	371	313	328	339	292	314	488
80%	346	312	304	427	377	337	290	308	332	281	296	447
90%	319	297	296	404	348	301	246	200	284	270	280	418
Long Term												
Full Simulation Period[b]	538	524	532	576	509	444	404	394	394	338	400	531
Water Year Types[c]												
Wet (32%)	470	430	416	443	392	331	273	266	309	290	304	462
Above Normal (16%)	624	606	550	556	501	406	355	346	351	284	309	433
Below Normal (13%)	477	440	486	567	527	463	416	403	400	313	379	589
Dry (24%)	535	538	569	662	561	497	476	466	430	360	512	591
Critical (15%)	659	690	745	752	668	624	613	594	561	486	541	631

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	10	10	37	-19	-3	70	133	140	112	44	52	15
20%	2	-2	-25	-39	-5	71	98	111	67	38	72	1
30%	-36	-49	-74	-81	29	64	92	88	98	16	37	7
40%	-29	-36	-113	-125	68	58	64	72	65	8	2	7
50%	-63	-82	-255	-134	58	35	60	50	50	7	14	-23
60%	-295	-289	-295	36	73	38	20	38	46	11	8	-30
70%	-291	-289	-278	35	60	35	6	28	43	8	4	-40
80%	-283	-262	-197	34	25	21	4	23	45	10	-4	-41
90%	-252	-178	-38	53	32	4	17	-13	7	10	-7	-46
Long Term												
Full Simulation Period[b]	-129	-122	-126	-27	34	44	52	58	60	14	22	-18
Water Year Types[c]												
Wet (32%)	-150	-164	-132	22	44	12	9	12	17	1	4	-16
Above Normal (16%)	-85	-61	-99	-36	59	38	36	42	51	10	-3	-121
Below Normal (13%)	-158	-154	-164	-87	-34	20	37	56	95	20	-2	35
Dry (24%)	-149	-126	-153	-38	42	82	99	94	76	27	76	8
Critical (15%)	-73	-64	-64	-50	33	78	101	117	101	21	20	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

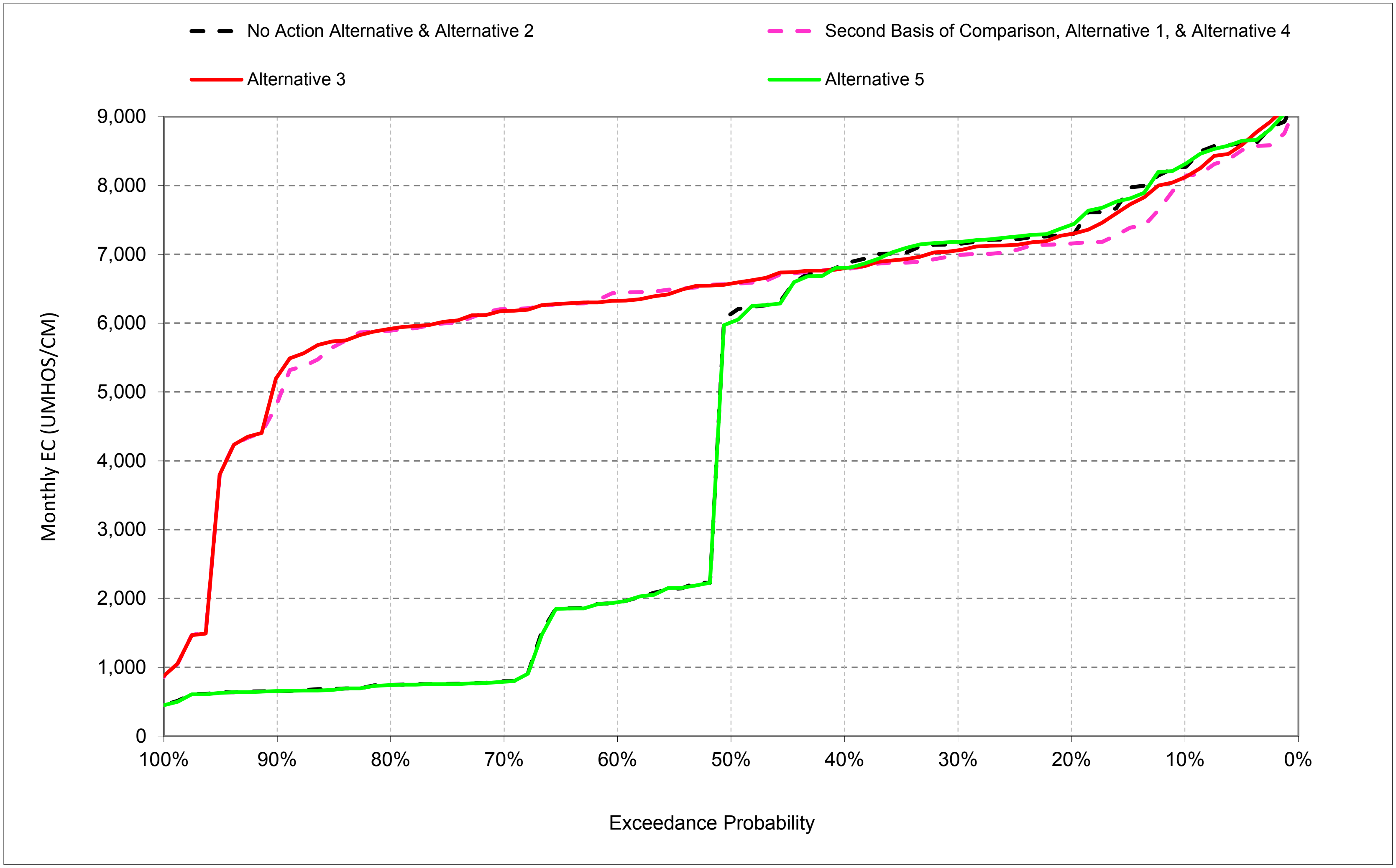
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

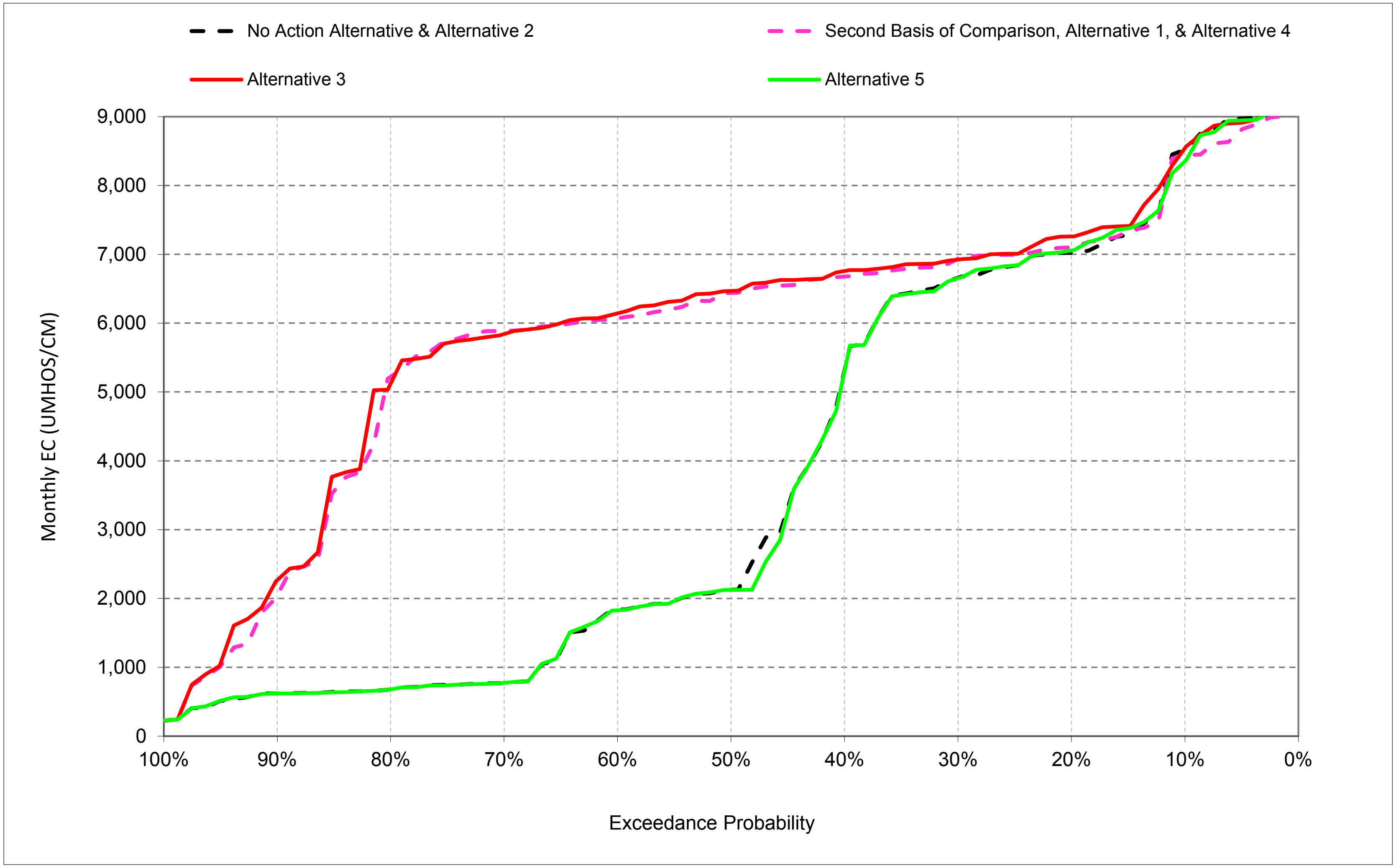
B.9. Antioch Salinity

Figure 6E.B.9.1. Antioch Salinity, Electrical Conductivity, October



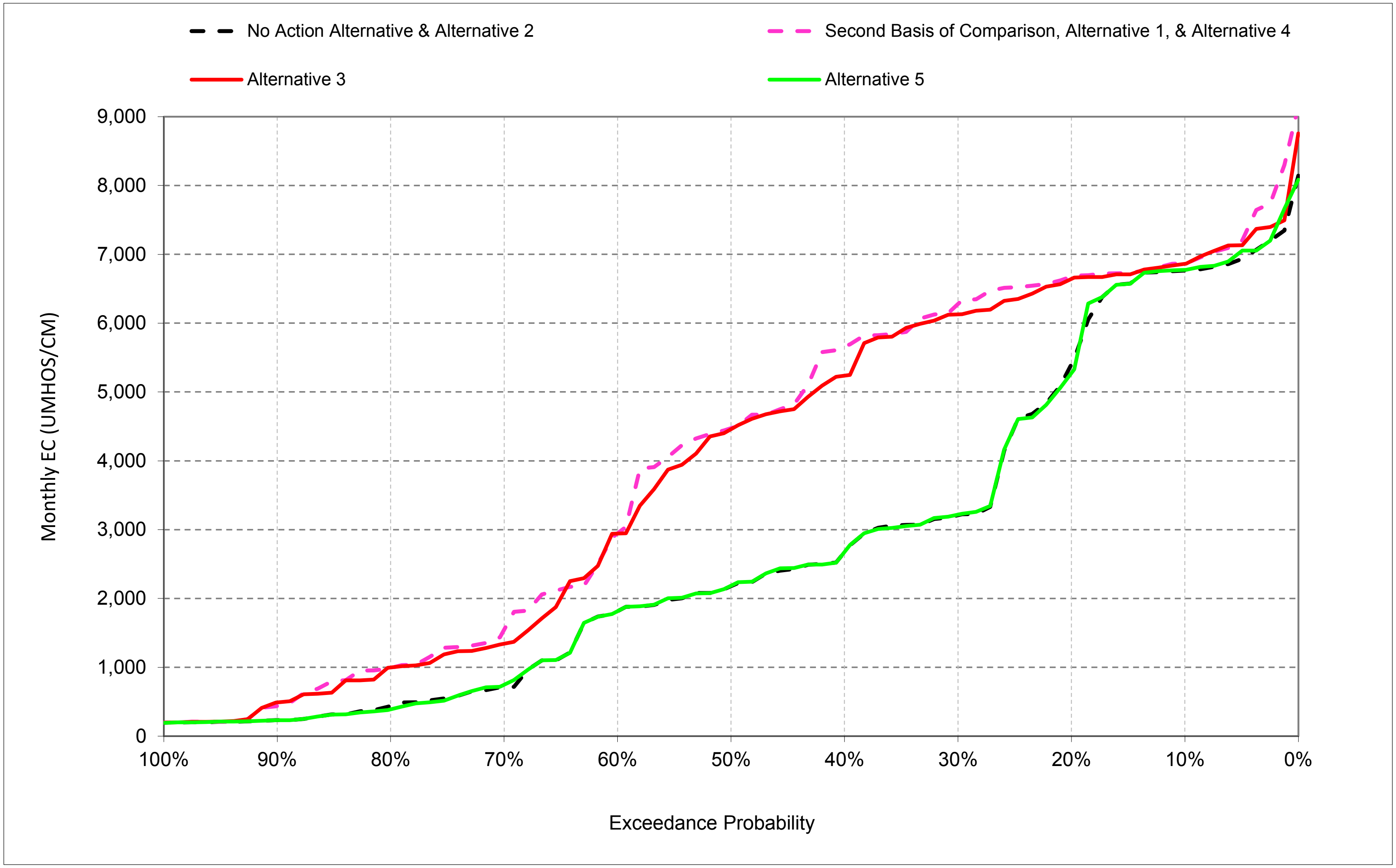
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.2. Antioch Salinity, Electrical Conductivity, November



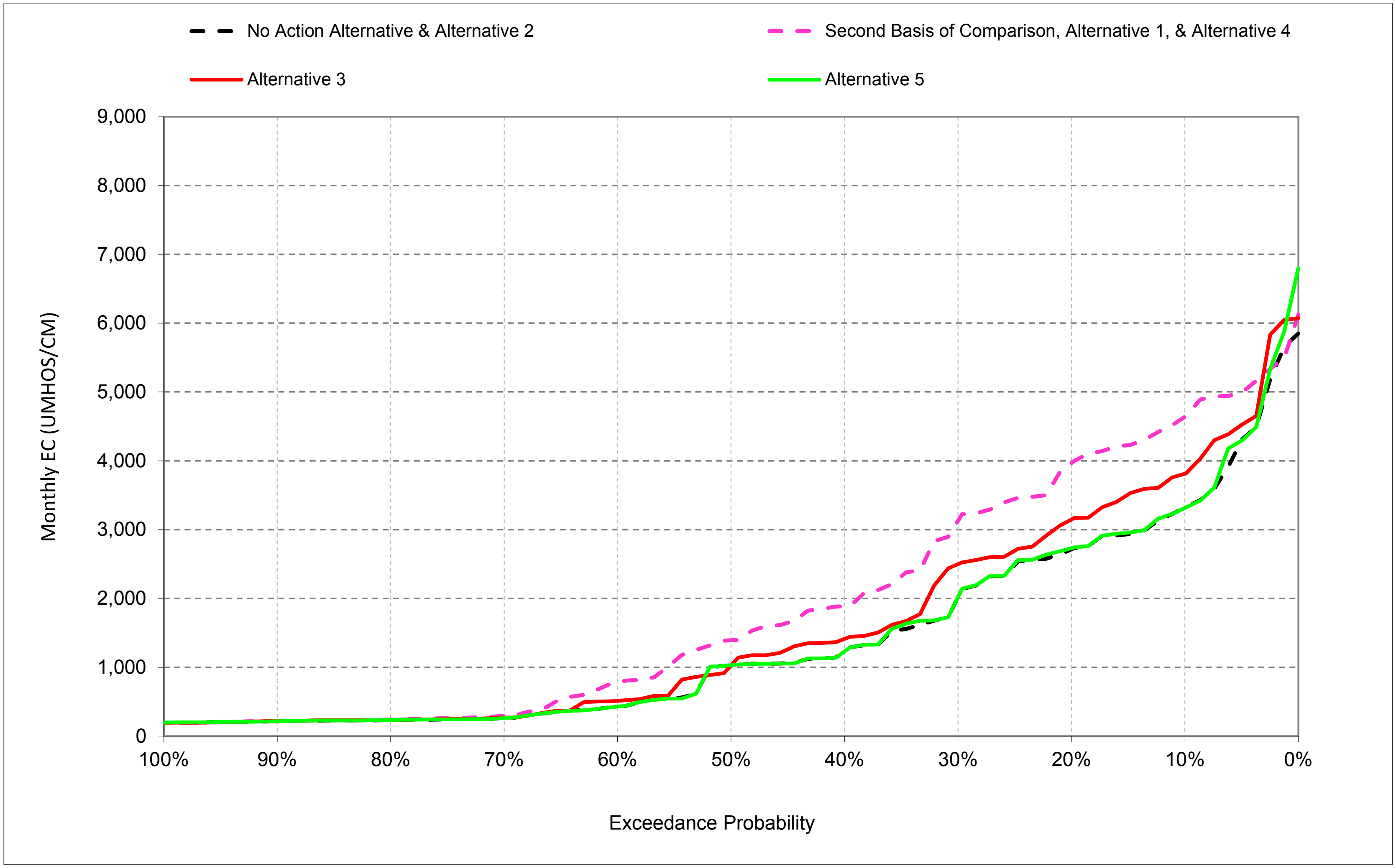
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.3. Antioch Salinity, Electrical Conductivity, December



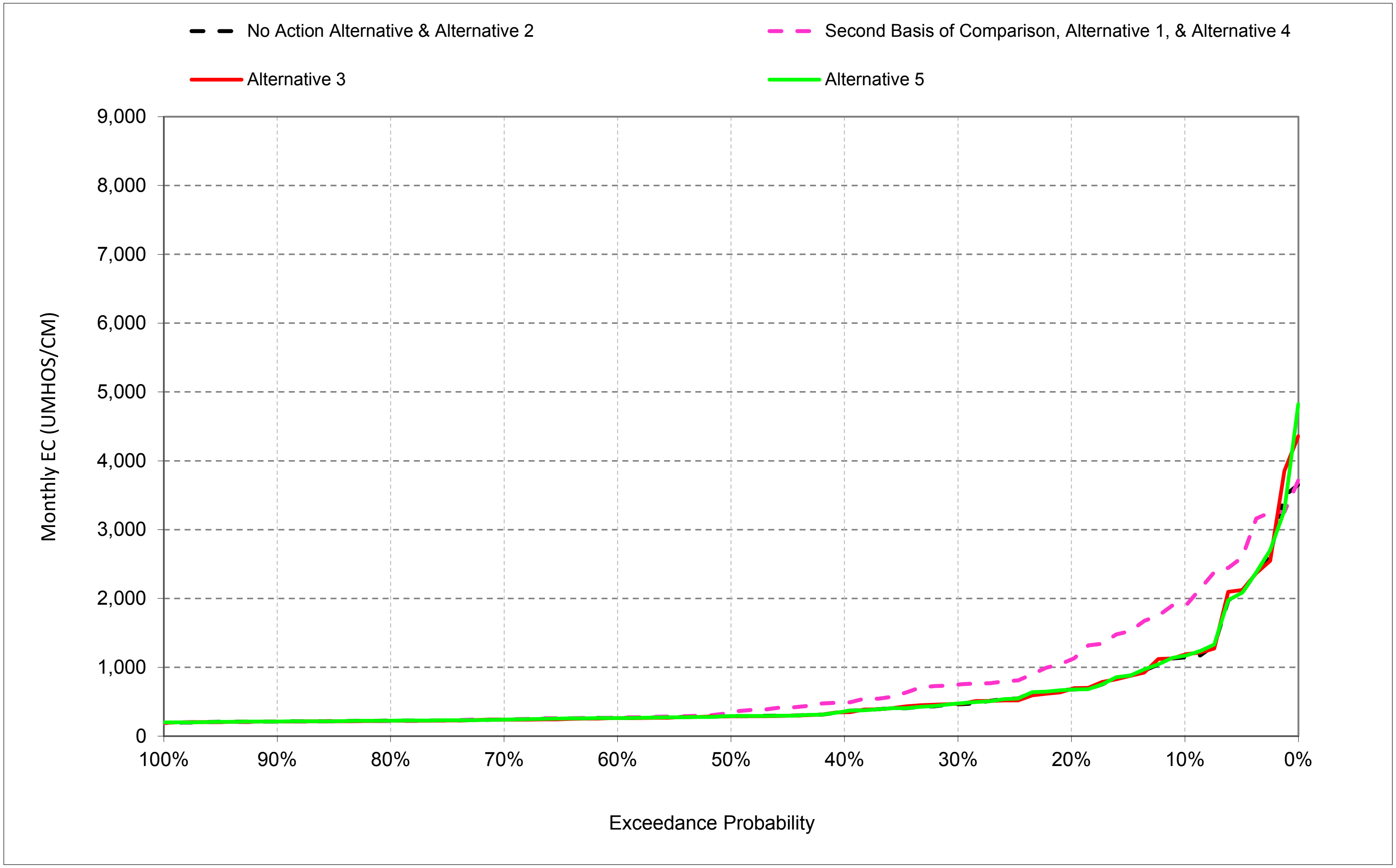
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.4. Antioch Salinity, Electrical Conductivity, January



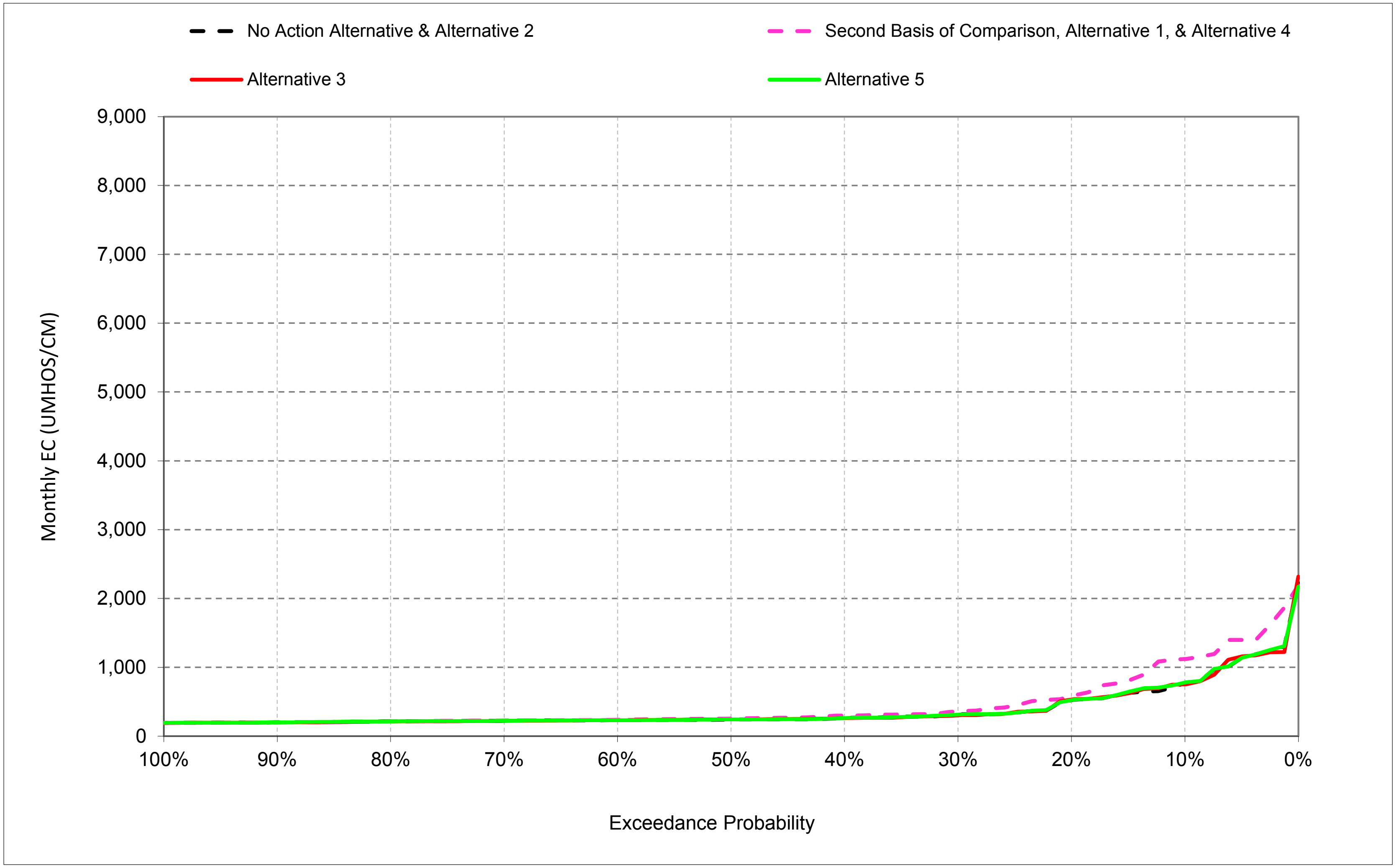
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.5. Antioch Salinity, Electrical Conductivity, February



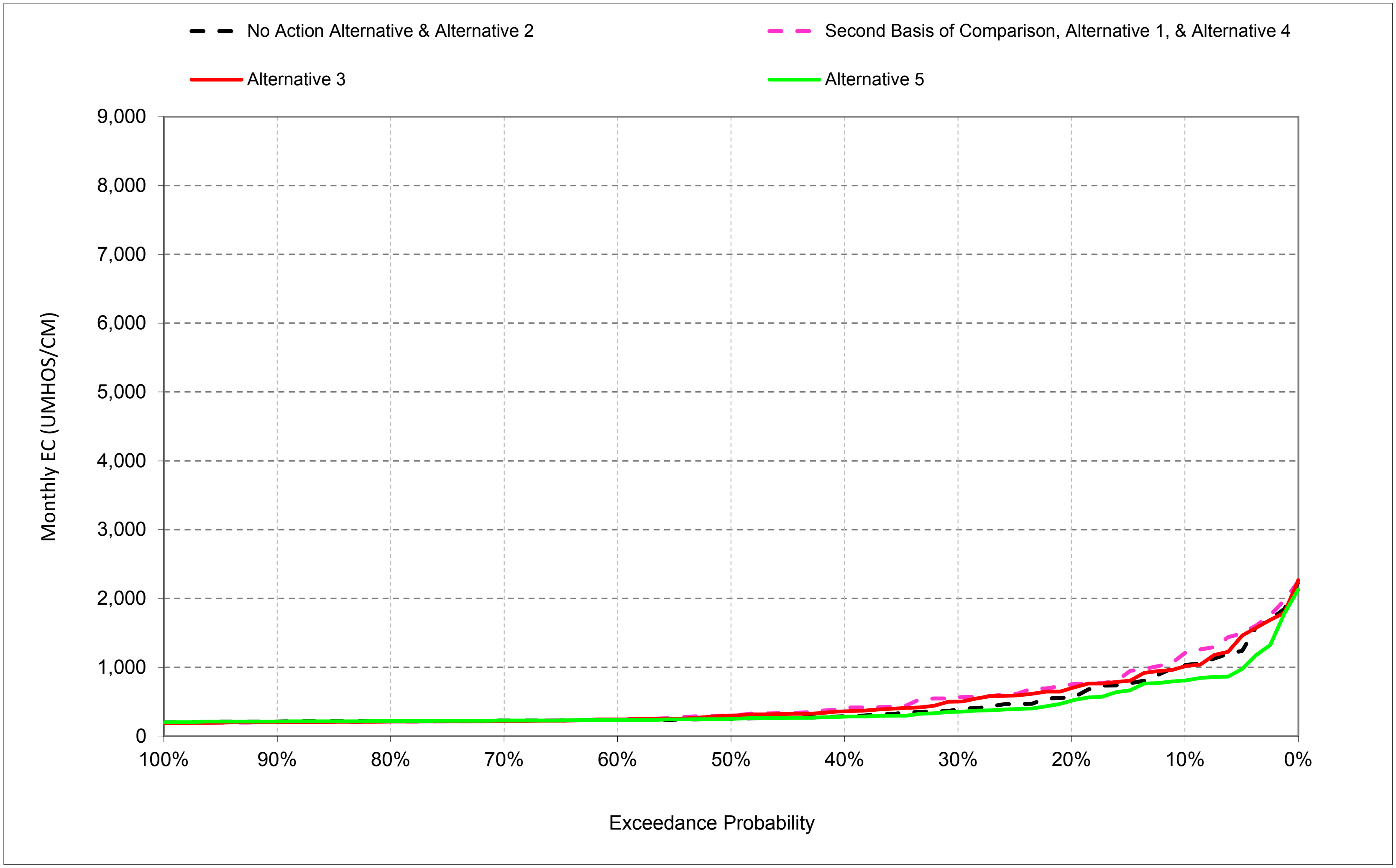
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.6. Antioch Salinity, Electrical Conductivity, March



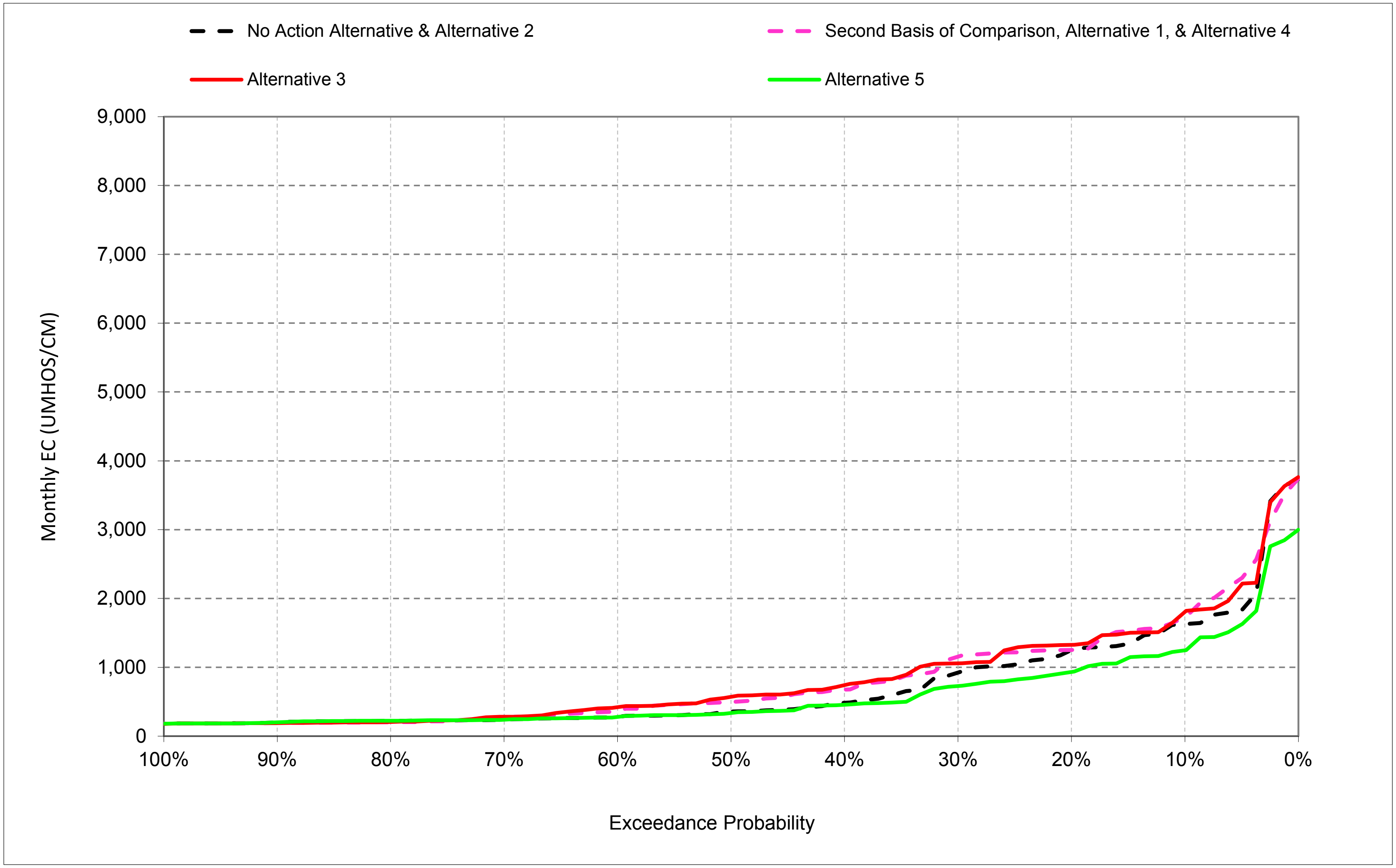
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.7. Antioch Salinity, Electrical Conductivity, April



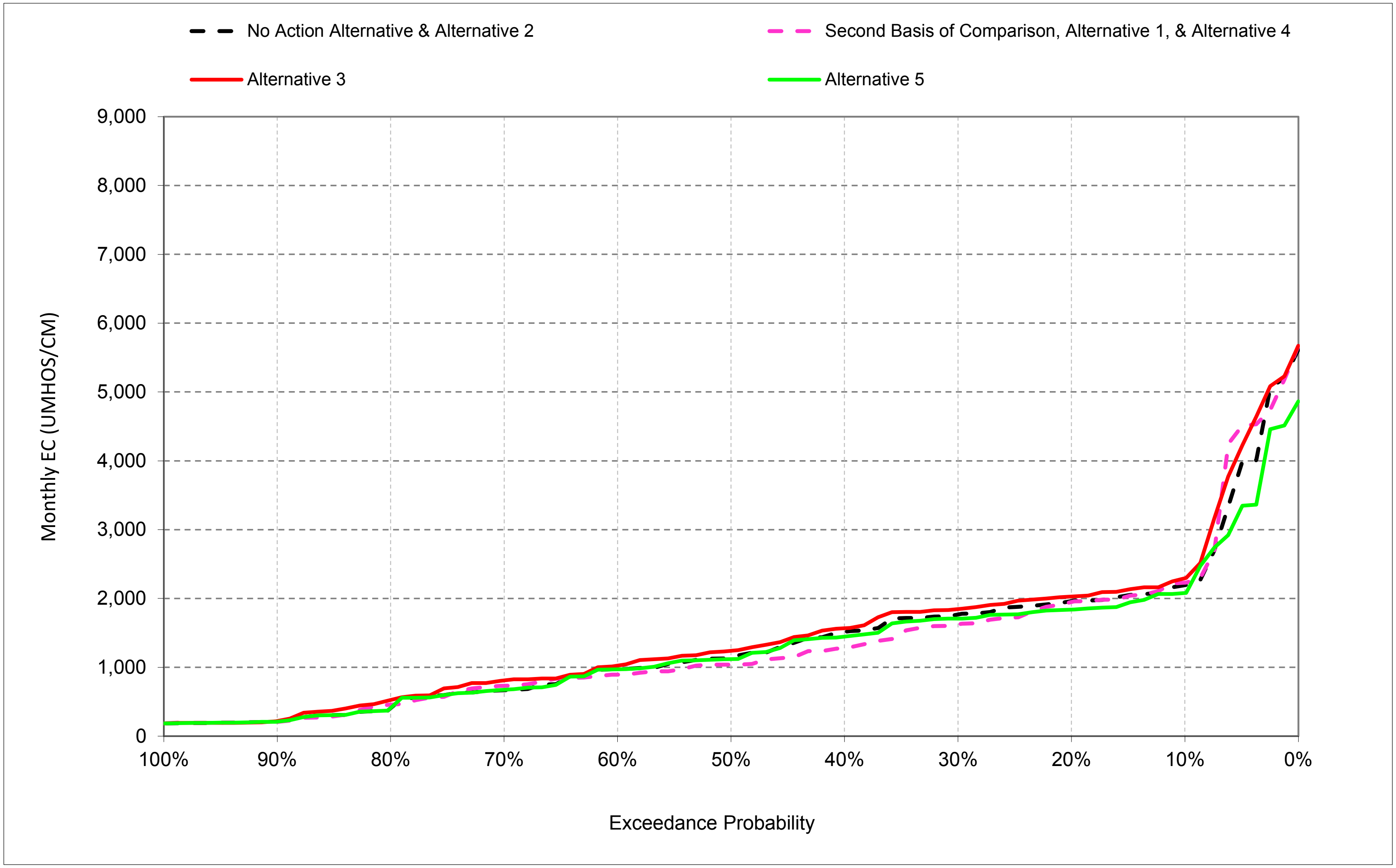
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.8. Antioch Salinity, Electrical Conductivity, May



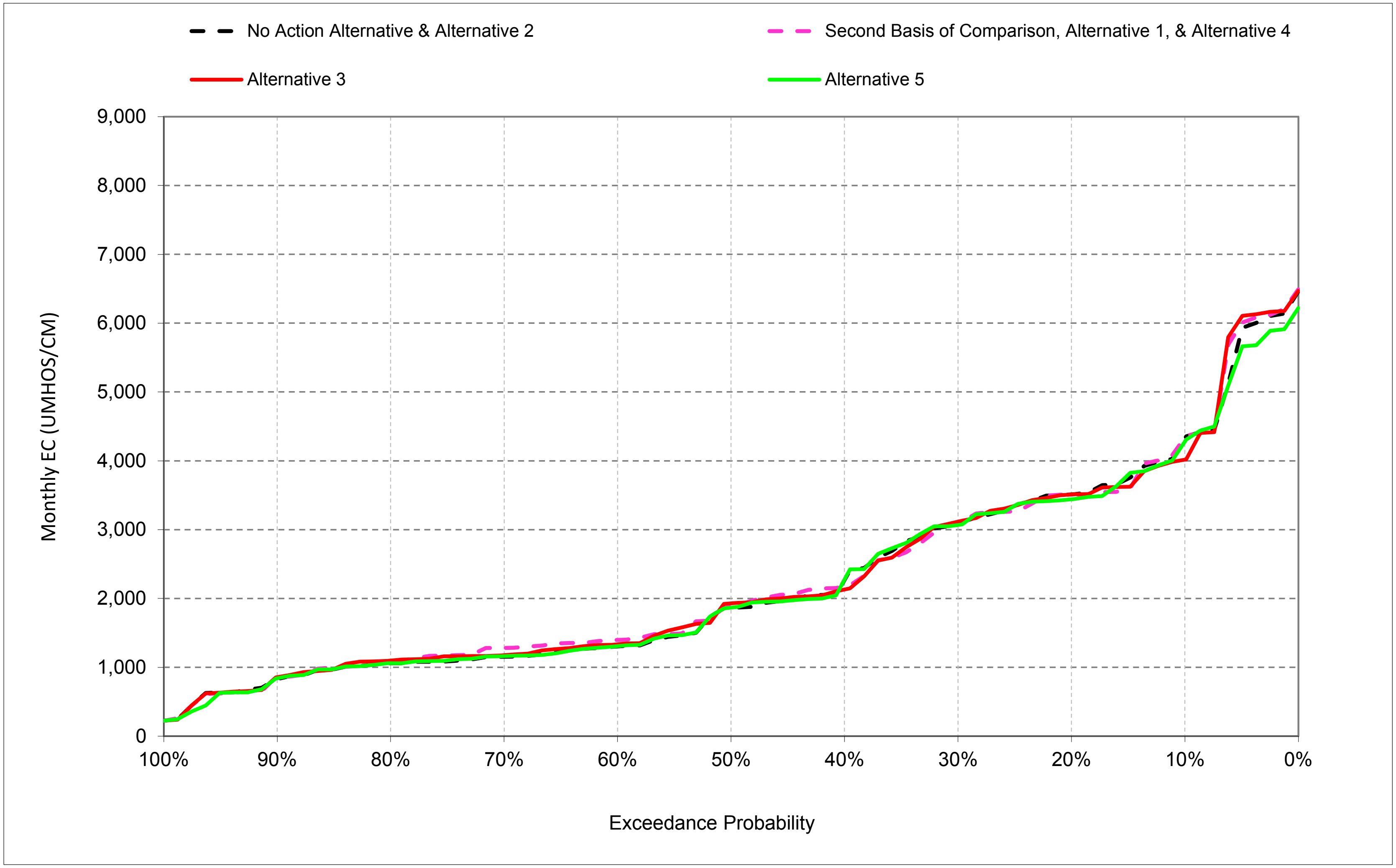
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.9. Antioch Salinity, Electrical Conductivity, June



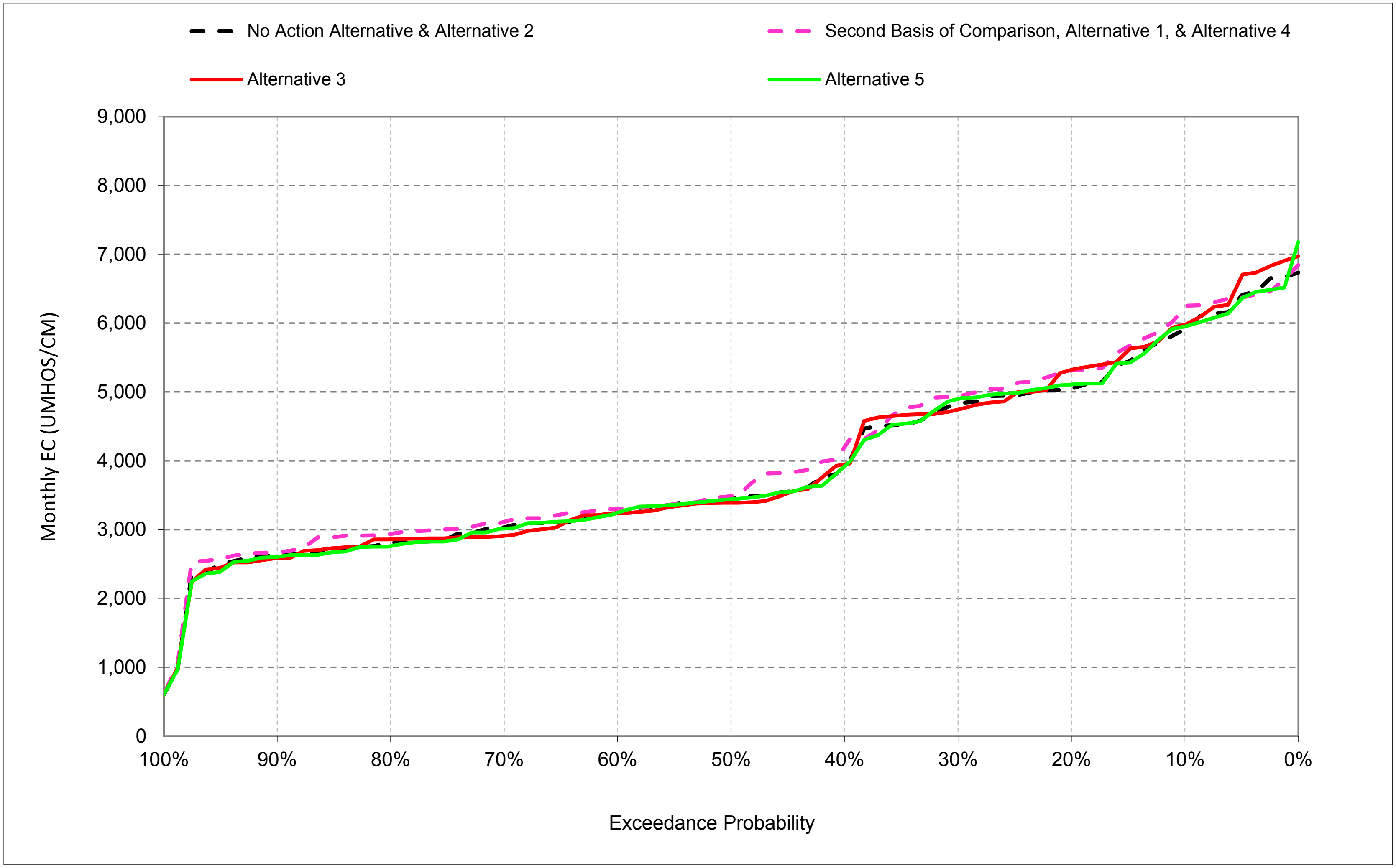
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.10. Antioch Salinity, Electrical Conductivity, July



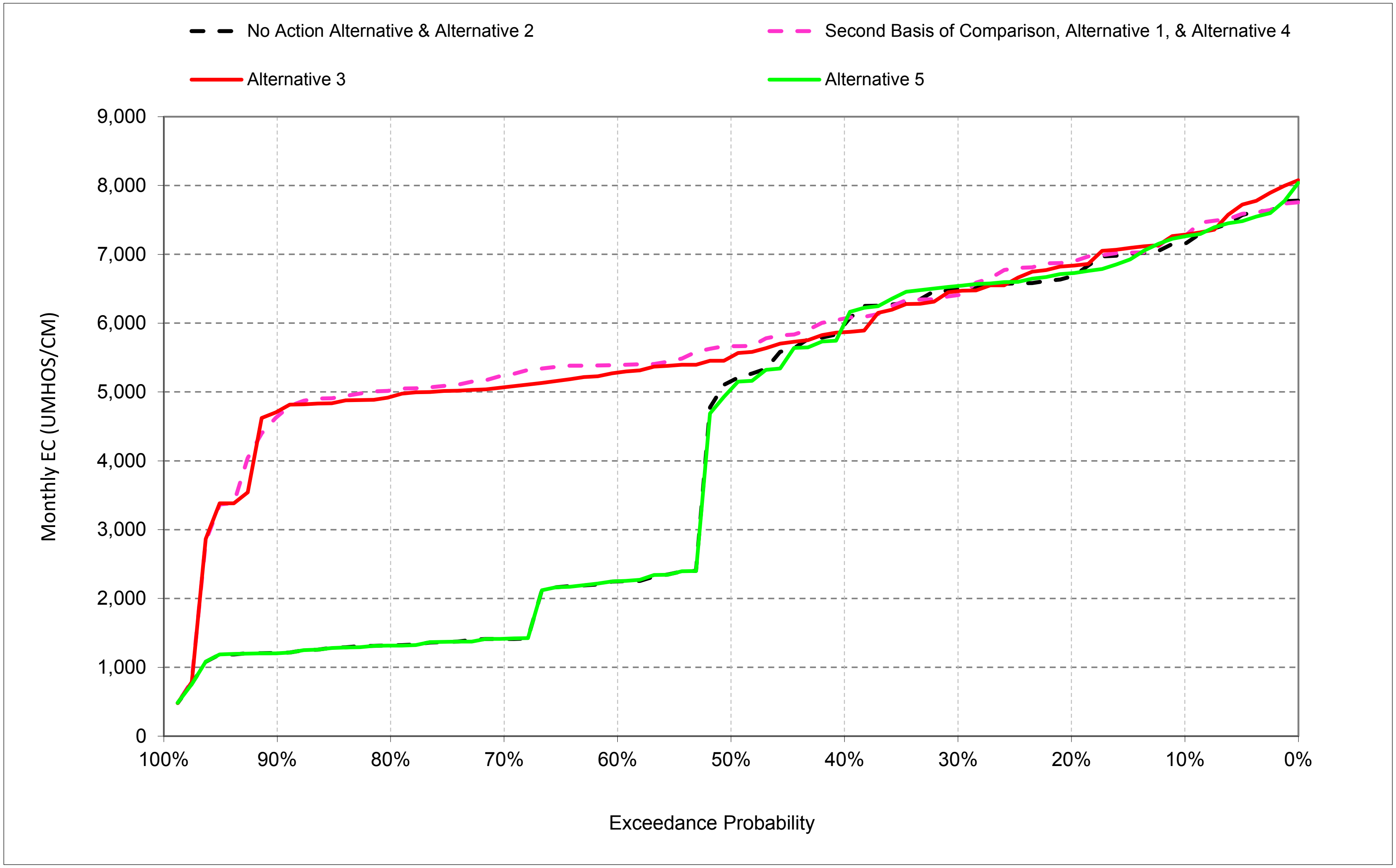
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.11. Antioch Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.9.12. Antioch Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.9.1. Antioch Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,269	8,523	6,763	3,320	1,142	771	1,029	1,628	2,192	4,322	5,909	7,163
20%	7,297	7,021	5,403	2,716	676	521	564	1,250	1,960	3,511	5,054	6,677
30%	7,151	6,658	3,210	2,015	462	313	392	922	1,767	3,094	4,825	6,497
40%	6,852	5,310	2,674	1,230	357	262	288	485	1,514	2,268	3,930	5,981
50%	6,136	2,127	2,179	1,030	289	241	250	356	1,150	1,863	3,459	5,157
60%	1,944	1,839	1,814	430	264	232	232	281	974	1,303	3,247	2,247
70%	797	774	712	261	238	223	225	238	667	1,153	3,035	1,414
80%	745	678	437	234	224	214	219	221	406	1,057	2,812	1,322
90%	655	621	231	215	212	200	213	200	209	829	2,632	1,219
Long Term												
Full Simulation Period[b]	4,357	3,817	2,769	1,427	569	384	449	722	1,384	2,278	3,917	4,173
Water Year Types[c]												
Wet (32%)	2,942	2,175	861	374	241	221	223	241	545	919	2,804	1,244
Above Normal (16%)	5,638	4,065	2,362	727	275	225	233	298	963	1,247	2,878	2,243
Below Normal (13%)	3,018	2,846	2,728	1,564	576	397	430	669	1,448	1,961	3,512	5,704
Dry (24%)	4,693	4,494	3,908	2,128	741	403	471	830	1,609	3,290	4,892	6,457
Critical (15%)	6,705	6,865	5,485	3,174	1,303	867	1,153	2,093	3,225	4,943	6,200	7,400

Alternative 1

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,123	8,439	6,868	4,639	1,903	1,120	1,205	1,726	2,229	4,336	6,230	7,278
20%	7,156	7,100	6,677	3,967	1,113	581	751	1,252	1,947	3,509	5,312	6,895
30%	6,985	6,934	6,276	3,125	748	361	563	1,154	1,625	3,100	4,945	6,407
40%	6,786	6,677	5,659	1,885	489	298	402	676	1,283	2,177	4,198	6,066
50%	6,571	6,439	4,473	1,391	345	255	302	497	1,039	1,890	3,486	5,666
60%	6,439	6,067	2,944	784	269	238	242	371	893	1,398	3,302	5,393
70%	6,203	5,888	1,546	292	242	227	220	278	730	1,281	3,112	5,241
80%	5,892	5,219	989	238	219	214	210	203	456	1,058	2,936	5,022
90%	4,839	2,042	438	215	210	199	205	190	208	853	2,670	4,657
Long Term												
Full Simulation Period[b]	6,379	5,877	4,016	1,934	755	454	513	821	1,354	2,307	4,038	5,739
Water Year Types[c]												
Wet (32%)	5,652	4,968	1,663	482	248	222	231	277	510	969	2,846	4,539
Above Normal (16%)	6,900	5,688	3,849	1,169	338	228	255	394	864	1,288	3,015	5,204
Below Normal (13%)	5,956	5,206	4,384	2,752	1,026	505	550	839	1,245	2,015	3,765	5,818
Dry (24%)	6,661	6,582	5,503	2,942	1,004	481	560	933	1,607	3,240	5,044	6,588
Critical (15%)	7,307	7,494	6,481	3,480	1,639	1,112	1,291	2,258	3,390	5,021	6,298	7,433

Alternative 1 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-147	-84	104	1,318	760	349	177	98	36	13	321	115
20%	-141	79	1,274	1,251	437	60	187	2	-13	-2	258	218
30%	-166	276	3,067	1,110	287	47	171	231	-143	5	119	-90
40%	-66	1,367	2,985	655	132	36	114	191	-231	-91	268	85
50%	435	4,312	2,294	362	56	14	52	141	-111	27	27	509
60%	4,495	4,228	1,131	354	5	6	10	90	-82	94	55	3,146
70%	5,406	5,115	835	31	4	4	-5	39	64	128	78	3,827
80%	5,147	4,540	552	4	-5	-1	-9	-18	50	1	124	3,700
90%	4,184	1,422	206	0	-2	-1	-8	-10	-1	24	38	3,438
Long Term												
Full Simulation Period[b]	2,022	2,061	1,247	507	186	70	64	99	-30	29	121	1,566
Water Year Types[c]												
Wet (32%)	2,709	2,793	802	108	7	1	9	36	-36	50	42	3,295
Above Normal (16%)	1,262	1,622	1,488	442	64	4	22	96	-99	42	138	2,961
Below Normal (13%)	2,938	2,360	1,656	1,188	449	107	120	170	-203	54	253	114
Dry (24%)	1,968	2,088	1,595	813	262	79	89	103	-2	-50	153	132
Critical (15%)	603	629	996	306	336	245	138	164	166	78	98	32

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.9.2. Antioch Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,269	8,523	6,763	3,320	1,142	771	1,029	1,628	2,192	4,322	5,909	7,163
20%	7,297	7,021	5,403	2,716	676	521	564	1,250	1,960	3,511	5,054	6,677
30%	7,151	6,658	3,210	2,015	462	313	392	922	1,767	3,094	4,825	6,497
40%	6,852	5,310	2,674	1,230	357	262	288	485	1,514	2,268	3,930	5,981
50%	6,136	2,127	2,179	1,030	289	241	250	356	1,150	1,863	3,459	5,157
60%	1,944	1,839	1,814	430	264	232	232	281	974	1,303	3,247	2,247
70%	797	774	712	261	238	223	225	238	667	1,153	3,035	1,414
80%	745	678	437	234	224	214	219	221	406	1,057	2,812	1,322
90%	655	621	231	215	212	200	213	200	209	829	2,632	1,219
Long Term												
Full Simulation Period[b]	4,357	3,817	2,769	1,427	569	384	449	722	1,384	2,278	3,917	4,173
Water Year Types[c]												
Wet (32%)	2,942	2,175	861	374	241	221	223	241	545	919	2,804	1,244
Above Normal (16%)	5,638	4,065	2,362	727	275	225	233	298	963	1,247	2,878	2,243
Below Normal (13%)	3,018	2,846	2,728	1,564	576	397	430	669	1,448	1,961	3,512	5,704
Dry (24%)	4,693	4,494	3,908	2,128	741	403	471	830	1,609	3,290	4,892	6,457
Critical (15%)	6,705	6,865	5,485	3,174	1,303	867	1,153	2,093	3,225	4,943	6,200	7,400

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,118	8,539	6,862	3,812	1,184	752	1,013	1,802	2,292	4,016	5,977	7,286
20%	7,295	7,260	6,644	3,146	683	530	695	1,327	2,027	3,511	5,322	6,834
30%	7,057	6,924	6,126	2,499	470	300	502	1,056	1,846	3,116	4,744	6,466
40%	6,798	6,757	5,238	1,413	345	259	361	742	1,566	2,128	3,948	5,868
50%	6,576	6,468	4,459	1,027	287	242	298	571	1,240	1,929	3,389	5,510
60%	6,325	6,142	2,942	511	261	231	242	421	1,025	1,334	3,240	5,284
70%	6,176	5,841	1,343	269	239	220	217	281	808	1,175	2,910	5,068
80%	5,918	5,120	997	237	222	212	210	205	525	1,098	2,860	4,930
90%	5,223	2,265	488	223	210	199	203	189	218	856	2,585	4,796
Long Term												
Full Simulation Period[b]	6,445	5,963	3,907	1,606	582	384	482	831	1,476	2,294	3,940	5,678
Water Year Types[c]												
Wet (32%)	5,617	5,033	1,607	415	238	221	229	299	610	950	2,741	4,498
Above Normal (16%)	7,143	5,772	3,619	868	270	220	248	412	1,002	1,270	2,928	5,152
Below Normal (13%)	6,062	5,318	4,395	1,974	614	404	512	863	1,593	1,980	3,488	5,527
Dry (24%)	6,669	6,676	5,442	2,367	731	400	514	954	1,716	3,234	4,967	6,559
Critical (15%)	7,462	7,590	6,198	3,380	1,391	871	1,202	2,205	3,354	5,038	6,338	7,470

Alternative 3 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-152	16	98	492	42	-19	-16	175	100	-306	68	123
20%	-2	239	1,240	430	7	9	131	77	67	0	269	157
30%	-93	266	2,917	484	8	-13	110	134	78	21	-82	-31
40%	-54	1,447	2,564	183	-12	-3	73	257	52	-140	18	-113
50%	440	4,341	2,279	-2	-3	0	48	215	90	66	-70	353
60%	4,381	4,303	1,128	81	-2	-1	10	140	50	31	-7	3,036
70%	5,379	5,068	631	8	1	-2	-7	42	141	22	-125	3,654
80%	5,173	4,441	560	3	-2	-2	-9	-16	118	41	48	3,607
90%	4,568	1,645	257	8	-2	-1	-10	-11	8	27	-47	3,576
Long Term												
Full Simulation Period[b]	2,088	2,147	1,138	179	13	0	33	109	91	16	23	1,505
Water Year Types[c]												
Wet (32%)	2,674	2,857	746	41	-3	1	6	58	65	31	-63	3,255
Above Normal (16%)	1,506	1,706	1,257	140	-5	-5	16	114	39	23	50	2,909
Below Normal (13%)	3,045	2,472	1,667	410	37	7	81	194	145	19	-24	-176
Dry (24%)	1,976	2,182	1,535	238	-11	-2	43	124	108	-56	76	102
Critical (15%)	757	725	713	206	88	4	49	112	130	95	139	70

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.9.3. Antioch Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,269	8,523	6,763	3,320	1,142	771	1,029	1,628	2,192	4,322	5,909	7,163
20%	7,297	7,021	5,403	2,716	676	521	564	1,250	1,960	3,511	5,054	6,677
30%	7,151	6,658	3,210	2,015	462	313	392	922	1,767	3,094	4,825	6,497
40%	6,852	5,310	2,674	1,230	357	262	288	485	1,514	2,268	3,930	5,981
50%	6,136	2,127	2,179	1,030	289	241	250	356	1,150	1,863	3,459	5,157
60%	1,944	1,839	1,814	430	264	232	232	281	974	1,303	3,247	2,247
70%	797	774	712	261	238	223	225	238	667	1,153	3,035	1,414
80%	745	678	437	234	224	214	219	221	406	1,057	2,812	1,322
90%	655	621	231	215	212	200	213	200	209	829	2,632	1,219
Long Term												
Full Simulation Period[b]	4,357	3,817	2,769	1,427	569	384	449	722	1,384	2,278	3,917	4,173
Water Year Types[c]												
Wet (32%)	2,942	2,175	861	374	241	221	223	241	545	919	2,804	1,244
Above Normal (16%)	5,638	4,065	2,362	727	275	225	233	298	963	1,247	2,878	2,243
Below Normal (13%)	3,018	2,846	2,728	1,564	576	397	430	669	1,448	1,961	3,512	5,704
Dry (24%)	4,693	4,494	3,908	2,128	741	403	471	830	1,609	3,290	4,892	6,457
Critical (15%)	6,705	6,865	5,485	3,174	1,303	867	1,153	2,093	3,225	4,943	6,200	7,400

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,310	8,347	6,774	3,316	1,168	776	809	1,248	2,079	4,277	5,950	7,261
20%	7,429	7,056	5,276	2,730	676	521	514	934	1,839	3,441	5,107	6,724
30%	7,180	6,651	3,218	2,018	474	314	354	729	1,708	3,068	4,899	6,540
40%	6,806	5,293	2,673	1,230	357	262	283	454	1,445	2,272	3,917	5,998
50%	6,010	2,123	2,185	1,029	290	241	250	337	1,119	1,868	3,442	5,041
60%	1,945	1,828	1,814	429	263	231	235	279	970	1,306	3,246	2,250
70%	791	774	746	261	238	222	225	238	674	1,162	3,014	1,421
80%	740	678	389	235	224	213	219	223	409	1,057	2,762	1,317
90%	655	619	230	215	212	200	213	200	209	841	2,603	1,219
Long Term												
Full Simulation Period[b]	4,354	3,805	2,775	1,450	584	385	402	613	1,315	2,254	3,907	4,172
Water Year Types[c]												
Wet (32%)	2,940	2,202	867	374	242	221	223	237	545	911	2,774	1,242
Above Normal (16%)	5,635	3,991	2,336	725	275	225	233	295	961	1,248	2,876	2,248
Below Normal (13%)	3,027	2,852	2,730	1,567	576	397	390	580	1,424	1,957	3,488	5,658
Dry (24%)	4,687	4,467	3,935	2,152	746	404	404	692	1,547	3,278	4,902	6,474
Critical (15%)	6,688	6,848	5,494	3,292	1,395	876	982	1,673	2,877	4,821	6,202	7,403

Alternative 5 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	41	-175	10	-5	26	5	-220	-380	-113	-46	41	98
20%	132	35	-127	14	0	0	-49	-317	-121	-70	54	47
30%	29	-7	8	2	13	0	-37	-194	-60	-26	73	43
40%	-46	-16	0	-1	0	0	-5	-31	-69	4	-13	17
50%	-126	-4	6	-1	0	0	0	-20	-32	5	-17	-116
60%	1	-10	0	-1	-1	0	2	-2	-4	3	-1	3
70%	-6	0	34	0	0	-1	1	0	7	9	-20	7
80%	-5	0	-49	1	0	-1	0	2	3	0	-50	-5
90%	0	-2	-1	0	0	0	0	0	0	12	-29	0
Long Term												
Full Simulation Period[b]	-4	-12	6	23	15	2	-47	-109	-69	-24	-10	-1
Water Year Types[c]												
Wet (32%)	-2	27	5	0	0	0	0	-4	0	-8	-31	-2
Above Normal (16%)	-3	-75	-26	-2	0	0	1	-2	-2	1	-2	5
Below Normal (13%)	9	6	1	3	-1	-1	-41	-89	-24	-4	-24	-46
Dry (24%)	-6	-27	28	24	5	1	-67	-137	-61	-12	11	17
Critical (15%)	-17	-17	9	118	92	9	-171	-420	-348	-122	2	3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.9.4. Antioch Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,123	8,439	6,868	4,639	1,903	1,120	1,205	1,726	2,229	4,336	6,230	7,278
20%	7,156	7,100	6,677	3,967	1,113	581	751	1,252	1,947	3,509	5,312	6,895
30%	6,985	6,934	6,276	3,125	748	361	563	1,154	1,625	3,100	4,945	6,407
40%	6,786	6,677	5,659	1,885	489	298	402	676	1,283	2,177	4,198	6,066
50%	6,571	6,439	4,473	1,391	345	255	302	497	1,039	1,890	3,486	5,666
60%	6,439	6,067	2,944	784	269	238	242	371	893	1,398	3,302	5,393
70%	6,203	5,888	1,546	292	242	227	220	278	730	1,281	3,112	5,241
80%	5,892	5,219	989	238	219	214	210	203	456	1,058	2,936	5,022
90%	4,839	2,042	438	215	210	199	205	190	208	853	2,670	4,657
Long Term												
Full Simulation Period[b]	6,379	5,877	4,016	1,934	755	454	513	821	1,354	2,307	4,038	5,739
Water Year Types[c]												
Wet (32%)	5,652	4,968	1,663	482	248	222	231	277	510	969	2,846	4,539
Above Normal (16%)	6,900	5,688	3,849	1,169	338	228	255	394	864	1,288	3,015	5,204
Below Normal (13%)	5,956	5,206	4,384	2,752	1,026	505	550	839	1,245	2,015	3,765	5,818
Dry (24%)	6,661	6,582	5,503	2,942	1,004	481	560	933	1,607	3,240	5,044	6,588
Critical (15%)	7,307	7,494	6,481	3,480	1,639	1,112	1,291	2,258	3,390	5,021	6,298	7,433

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,269	8,523	6,763	3,320	1,142	771	1,029	1,628	2,192	4,322	5,909	7,163
20%	7,297	7,021	5,403	2,716	676	521	564	1,250	1,960	3,511	5,054	6,677
30%	7,151	6,658	3,210	2,015	462	313	392	922	1,767	3,094	4,825	6,497
40%	6,852	5,310	2,674	1,230	357	262	288	485	1,514	2,268	3,930	5,981
50%	6,136	2,127	2,179	1,030	289	241	250	356	1,150	1,863	3,459	5,157
60%	1,944	1,839	1,814	430	264	232	232	281	974	1,303	3,247	2,247
70%	797	774	712	261	238	223	225	238	667	1,153	3,035	1,414
80%	745	678	437	234	224	214	219	221	406	1,057	2,812	1,322
90%	655	621	231	215	212	200	213	200	209	829	2,632	1,219
Long Term												
Full Simulation Period[b]	4,357	3,817	2,769	1,427	569	384	449	722	1,384	2,278	3,917	4,173
Water Year Types[c]												
Wet (32%)	2,942	2,175	861	374	241	221	223	241	545	919	2,804	1,244
Above Normal (16%)	5,638	4,065	2,362	727	275	225	233	298	963	1,247	2,878	2,243
Below Normal (13%)	3,018	2,846	2,728	1,564	576	397	430	669	1,448	1,961	3,512	5,704
Dry (24%)	4,693	4,494	3,908	2,128	741	403	471	830	1,609	3,290	4,892	6,457
Critical (15%)	6,705	6,865	5,485	3,174	1,303	867	1,153	2,093	3,225	4,943	6,200	7,400

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	147	84	-104	-1,318	-760	-349	-177	-98	-36	-13	-321	-115
20%	141	-79	-1,274	-1,251	-437	-60	-187	-2	13	2	-258	-218
30%	166	-276	-3,067	-1,110	-287	-47	-171	-231	143	-5	-119	90
40%	66	-1,367	-2,985	-655	-132	-36	-114	-191	231	91	-268	-85
50%	-435	-4,312	-2,294	-362	-56	-14	-52	-141	111	-27	-27	-509
60%	-4,495	-4,228	-1,131	-354	-5	-6	-10	-90	82	-94	-55	-3,146
70%	-5,406	-5,115	-835	-31	-4	-4	5	-39	-64	-128	-78	-3,827
80%	-5,147	-4,540	-552	-4	5	1	9	18	-50	-1	-124	-3,700
90%	-4,184	-1,422	-206	0	2	1	8	10	1	-24	-38	-3,438
Long Term												
Full Simulation Period[b]	-2,022	-2,061	-1,247	-507	-186	-70	-64	-99	30	-29	-121	-1,566
Water Year Types[c]												
Wet (32%)	-2,709	-2,793	-802	-108	-7	-1	-9	-36	36	-50	-42	-3,295
Above Normal (16%)	-1,262	-1,622	-1,488	-442	-64	-4	-22	-96	99	-42	-138	-2,961
Below Normal (13%)	-2,938	-2,360	-1,656	-1,188	-449	-107	-120	-170	203	-54	-253	-114
Dry (24%)	-1,968	-2,088	-1,595	-813	-262	-79	-89	-103	2	50	-153	-132
Critical (15%)	-603	-629	-996	-306	-336	-245	-138	-164	-166	-78	-98	-32

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.9.5. Antioch Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,123	8,439	6,868	4,639	1,903	1,120	1,205	1,726	2,229	4,336	6,230	7,278
20%	7,156	7,100	6,677	3,967	1,113	581	751	1,252	1,947	3,509	5,312	6,895
30%	6,985	6,934	6,276	3,125	748	361	563	1,154	1,625	3,100	4,945	6,407
40%	6,786	6,677	5,659	1,885	489	298	402	676	1,283	2,177	4,198	6,066
50%	6,571	6,439	4,473	1,391	345	255	302	497	1,039	1,890	3,486	5,666
60%	6,439	6,067	2,944	784	269	238	242	371	893	1,398	3,302	5,393
70%	6,203	5,888	1,546	292	242	227	220	278	730	1,281	3,112	5,241
80%	5,892	5,219	989	238	219	214	210	203	456	1,058	2,936	5,022
90%	4,839	2,042	438	215	210	199	205	190	208	853	2,670	4,657
Long Term												
Full Simulation Period[b]	6,379	5,877	4,016	1,934	755	454	513	821	1,354	2,307	4,038	5,739
Water Year Types[c]												
Wet (32%)	5,652	4,968	1,663	482	248	222	231	277	510	969	2,846	4,539
Above Normal (16%)	6,900	5,688	3,849	1,169	338	228	255	394	864	1,288	3,015	5,204
Below Normal (13%)	5,956	5,206	4,384	2,752	1,026	505	550	839	1,245	2,015	3,765	5,818
Dry (24%)	6,661	6,582	5,503	2,942	1,004	481	560	933	1,607	3,240	5,044	6,588
Critical (15%)	7,307	7,494	6,481	3,480	1,639	1,112	1,291	2,258	3,390	5,021	6,298	7,433

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,118	8,539	6,862	3,812	1,184	752	1,013	1,802	2,292	4,016	5,977	7,286
20%	7,295	7,260	6,644	3,146	683	530	695	1,327	2,027	3,511	5,322	6,834
30%	7,057	6,924	6,126	2,499	470	300	502	1,056	1,846	3,116	4,744	6,466
40%	6,798	6,757	5,238	1,413	345	259	361	742	1,566	2,128	3,948	5,868
50%	6,576	6,468	4,459	1,027	287	242	298	571	1,240	1,929	3,389	5,510
60%	6,325	6,142	2,942	511	261	231	242	421	1,025	1,334	3,240	5,284
70%	6,176	5,841	1,343	269	239	220	217	281	808	1,175	2,910	5,068
80%	5,918	5,120	997	237	222	212	210	205	525	1,098	2,860	4,930
90%	5,223	2,265	488	223	210	199	203	189	218	856	2,585	4,796
Long Term												
Full Simulation Period[b]	6,445	5,963	3,907	1,606	582	384	482	831	1,476	2,294	3,940	5,678
Water Year Types[c]												
Wet (32%)	5,617	5,033	1,607	415	238	221	229	299	610	950	2,741	4,498
Above Normal (16%)	7,143	5,772	3,619	868	270	220	248	412	1,002	1,270	2,928	5,152
Below Normal (13%)	6,062	5,318	4,395	1,974	614	404	512	863	1,593	1,980	3,488	5,527
Dry (24%)	6,669	6,676	5,442	2,367	731	400	514	954	1,716	3,234	4,967	6,559
Critical (15%)	7,462	7,590	6,198	3,380	1,391	871	1,202	2,205	3,354	5,038	6,338	7,470

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-5	100	-6	-827	-718	-368	-193	77	63	-320	-253	8
20%	139	160	-33	-821	-430	-51	-56	75	80	2	10	-61
30%	73	-11	-150	-627	-279	-60	-61	-97	221	16	-201	59
40%	12	79	-421	-472	-144	-39	-41	66	284	-49	-250	-199
50%	5	29	-15	-364	-59	-14	-4	74	201	38	-97	-155
60%	-114	75	-2	-273	-7	-7	0	50	132	-63	-62	-109
70%	-27	-47	-203	-23	-3	-6	-2	3	78	-106	-202	-173
80%	25	-99	8	-1	3	-1	-1	2	69	40	-76	-92
90%	384	223	50	8	0	0	-2	0	10	3	-85	138
Long Term												
Full Simulation Period[b]	66	86	-109	-328	-172	-70	-31	10	122	-13	-97	-62
Water Year Types[c]												
Wet (32%)	-35	64	-56	-67	-10	0	-2	22	100	-19	-105	-40
Above Normal (16%)	243	84	-230	-302	-68	-9	-6	18	139	-18	-88	-52
Below Normal (13%)	106	112	11	-779	-412	-100	-39	24	348	-35	-277	-291
Dry (24%)	8	95	-60	-575	-273	-81	-45	21	109	-6	-77	-29
Critical (15%)	154	96	-283	-100	-248	-241	-89	-53	-36	17	40	38

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.9.6. Antioch Salinity, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,123	8,439	6,868	4,639	1,903	1,120	1,205	1,726	2,229	4,336	6,230	7,278
20%	7,156	7,100	6,677	3,967	1,113	581	751	1,252	1,947	3,509	5,312	6,895
30%	6,985	6,934	6,276	3,125	748	361	563	1,154	1,625	3,100	4,945	6,407
40%	6,786	6,677	5,659	1,885	489	298	402	676	1,283	2,177	4,198	6,066
50%	6,571	6,439	4,473	1,391	345	255	302	497	1,039	1,890	3,486	5,666
60%	6,439	6,067	2,944	784	269	238	242	371	893	1,398	3,302	5,393
70%	6,203	5,888	1,546	292	242	227	220	278	730	1,281	3,112	5,241
80%	5,892	5,219	989	238	219	214	210	203	456	1,058	2,936	5,022
90%	4,839	2,042	438	215	210	199	205	190	208	853	2,670	4,657
Long Term												
Full Simulation Period[b]	6,379	5,877	4,016	1,934	755	454	513	821	1,354	2,307	4,038	5,739
Water Year Types[c]												
Wet (32%)	5,652	4,968	1,663	482	248	222	231	277	510	969	2,846	4,539
Above Normal (16%)	6,900	5,688	3,849	1,169	338	228	255	394	864	1,288	3,015	5,204
Below Normal (13%)	5,956	5,206	4,384	2,752	1,026	505	550	839	1,245	2,015	3,765	5,818
Dry (24%)	6,661	6,582	5,503	2,942	1,004	481	560	933	1,607	3,240	5,044	6,588
Critical (15%)	7,307	7,494	6,481	3,480	1,639	1,112	1,291	2,258	3,390	5,021	6,298	7,433

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8,310	8,347	6,774	3,316	1,168	776	809	1,248	2,079	4,277	5,950	7,261
20%	7,429	7,056	5,276	2,730	676	521	514	934	1,839	3,441	5,107	6,724
30%	7,180	6,651	3,218	2,018	474	314	354	729	1,708	3,068	4,899	6,540
40%	6,806	5,293	2,673	1,230	357	262	283	454	1,445	2,272	3,917	5,998
50%	6,010	2,123	2,185	1,029	290	241	250	337	1,119	1,868	3,442	5,041
60%	1,945	1,828	1,814	429	263	231	235	279	970	1,306	3,246	2,250
70%	791	774	746	261	238	222	225	238	674	1,162	3,014	1,421
80%	740	678	389	235	224	213	219	223	409	1,057	2,762	1,317
90%	655	619	230	215	212	200	213	200	209	841	2,603	1,219
Long Term												
Full Simulation Period[b]	4,354	3,805	2,775	1,450	584	385	402	613	1,315	2,254	3,907	4,172
Water Year Types[c]												
Wet (32%)	2,940	2,202	867	374	242	221	223	237	545	911	2,774	1,242
Above Normal (16%)	5,635	3,991	2,336	725	275	225	233	295	961	1,248	2,876	2,248
Below Normal (13%)	3,027	2,852	2,730	1,567	576	397	390	580	1,424	1,957	3,488	5,658
Dry (24%)	4,687	4,467	3,935	2,152	746	404	404	692	1,547	3,278	4,902	6,474
Critical (15%)	6,688	6,848	5,494	3,292	1,395	876	982	1,673	2,877	4,821	6,202	7,403

Alternative 5 minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	187	-91	-94	-1,323	-735	-344	-397	-478	-149	-59	-280	-17
20%	272	-45	-1,401	-1,237	-437	-60	-237	-318	-108	-68	-205	-171
30%	195	-283	-3,059	-1,108	-274	-47	-208	-425	83	-32	-46	133
40%	20	-1,384	-2,985	-656	-132	-36	-119	-222	162	96	-281	-69
50%	-561	-4,316	-2,288	-362	-56	-14	-52	-161	79	-23	-44	-625
60%	-4,494	-4,238	-1,131	-355	-6	-6	-8	-92	77	-91	-56	-3,142
70%	-5,412	-5,114	-800	-30	-4	-5	6	-40	-57	-119	-98	-3,820
80%	-5,152	-4,540	-600	-4	5	0	9	20	-47	-1	-174	-3,705
90%	-4,184	-1,424	-208	0	2	1	8	10	2	-12	-66	-3,438
Long Term												
Full Simulation Period[b]	-2,025	-2,072	-1,241	-484	-171	-69	-111	-207	-39	-53	-131	-1,568
Water Year Types[c]												
Wet (32%)	-2,711	-2,767	-796	-108	-7	-1	-9	-41	35	-58	-73	-3,297
Above Normal (16%)	-1,265	-1,697	-1,513	-444	-64	-3	-21	-98	98	-40	-140	-2,956
Below Normal (13%)	-2,929	-2,354	-1,655	-1,185	-450	-108	-161	-259	179	-58	-277	-160
Dry (24%)	-1,975	-2,115	-1,567	-789	-257	-78	-156	-241	-60	37	-142	-114
Critical (15%)	-620	-646	-987	-188	-244	-235	-309	-584	-513	-200	-96	-29

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

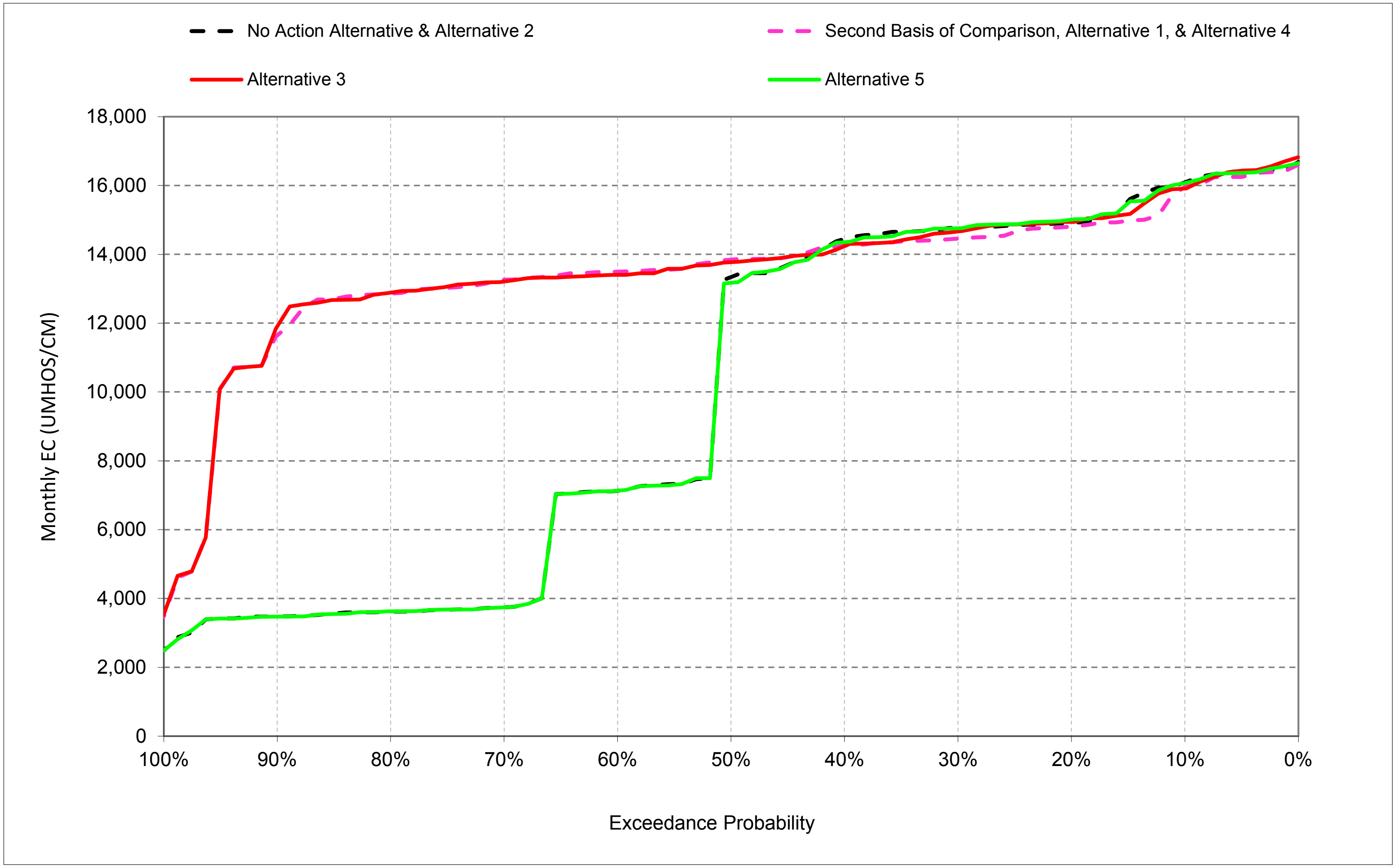
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

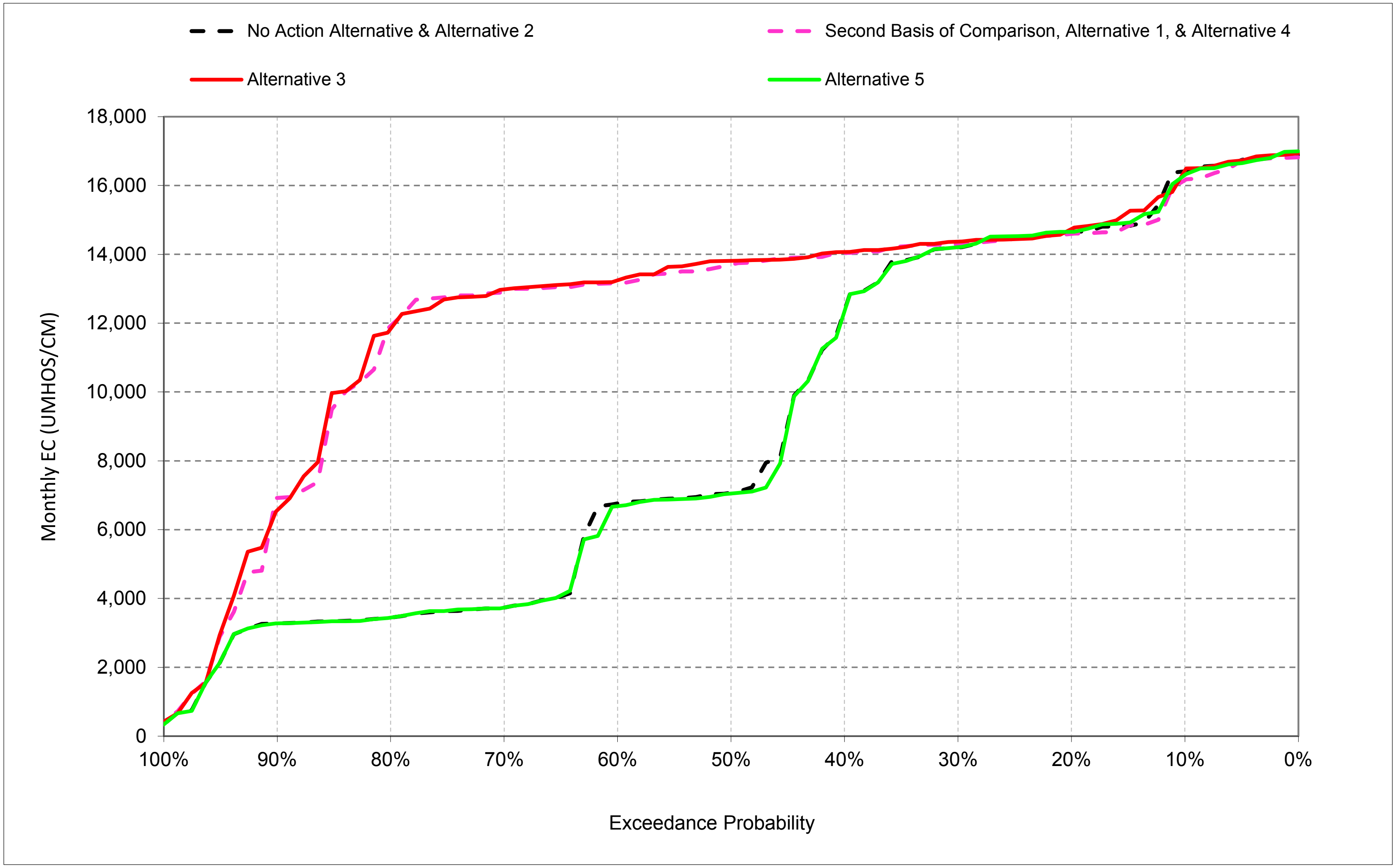
B.10.1 Chipps Island North Channel Salinity

Figure 6E.B.10.1.1. Chipps Island North Channel Salinity, Electrical Conductivity, October



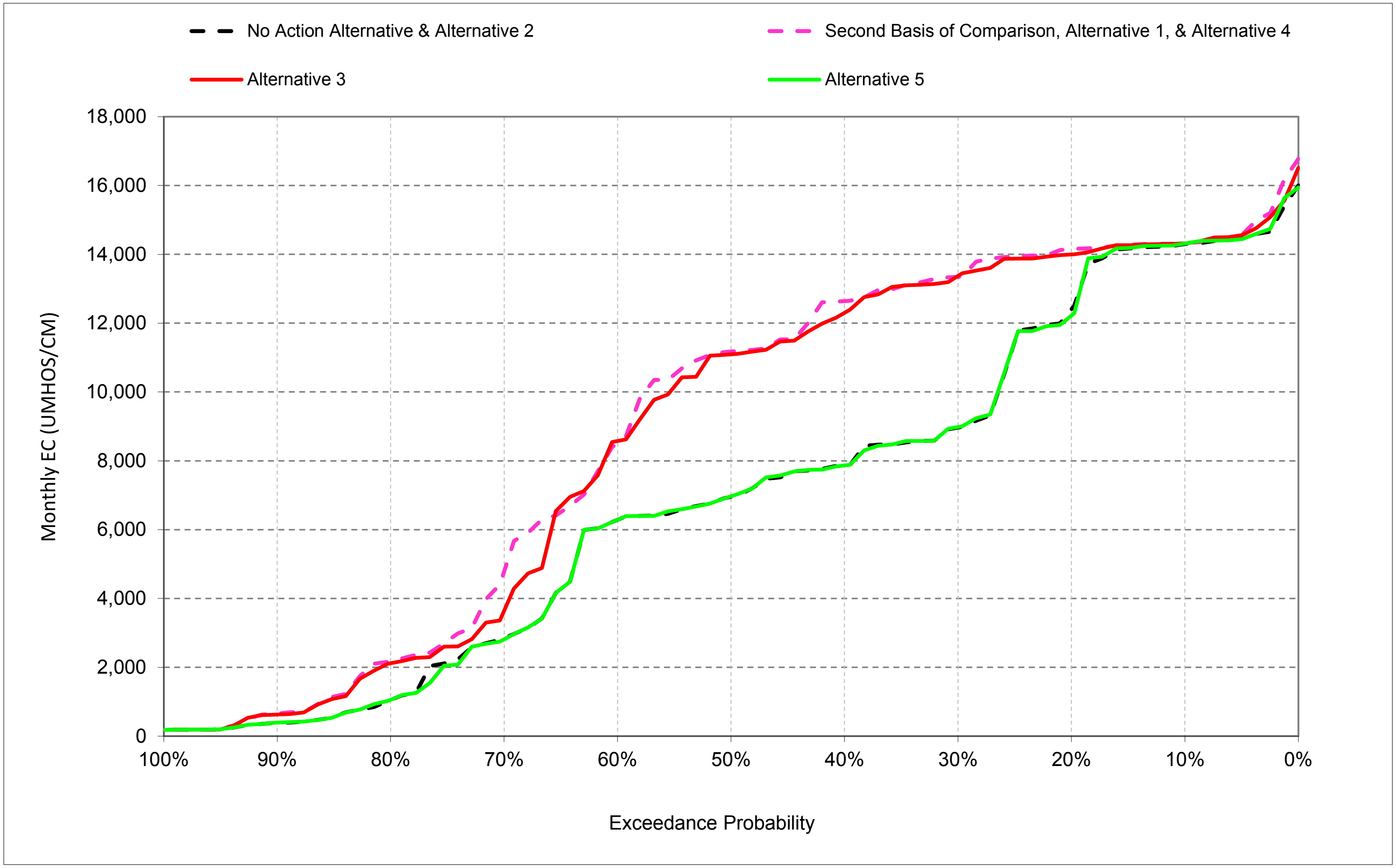
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.2. Chipps Island North Channel Salinity, Electrical Conductivity, November



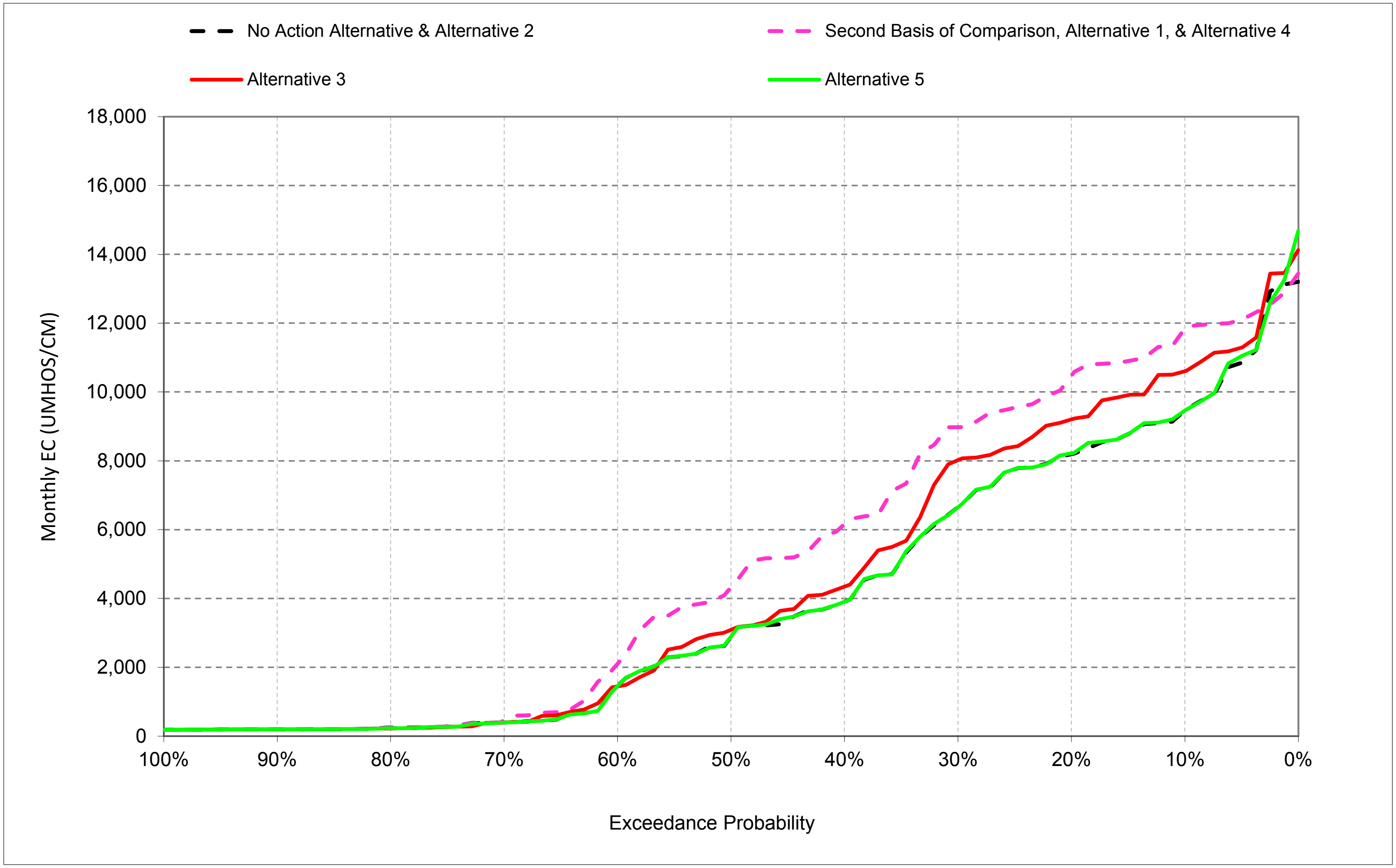
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.3. Chipps Island North Channel Salinity, Electrical Conductivity, December



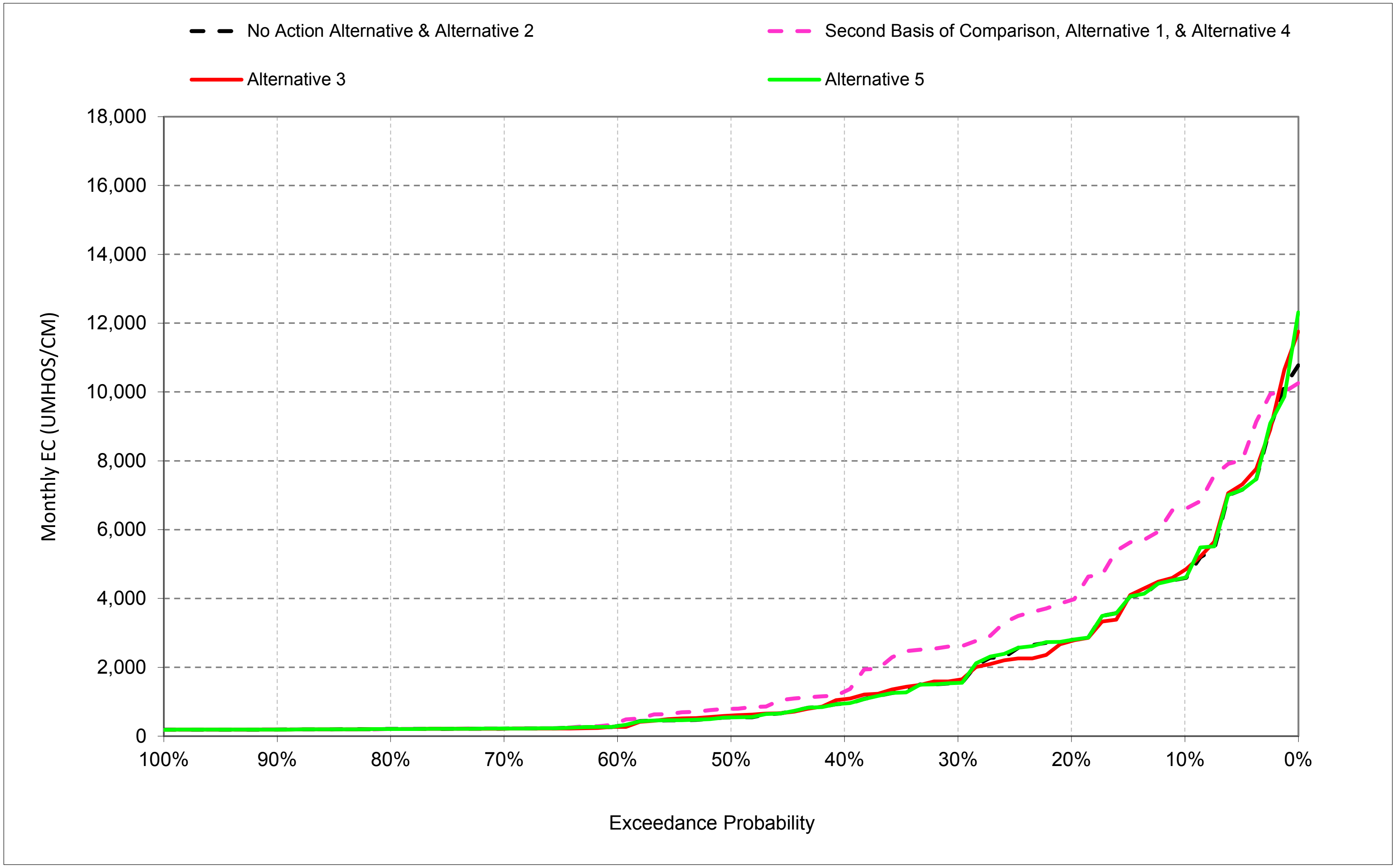
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.4. Chipps Island North Channel Salinity, Electrical Conductivity, January



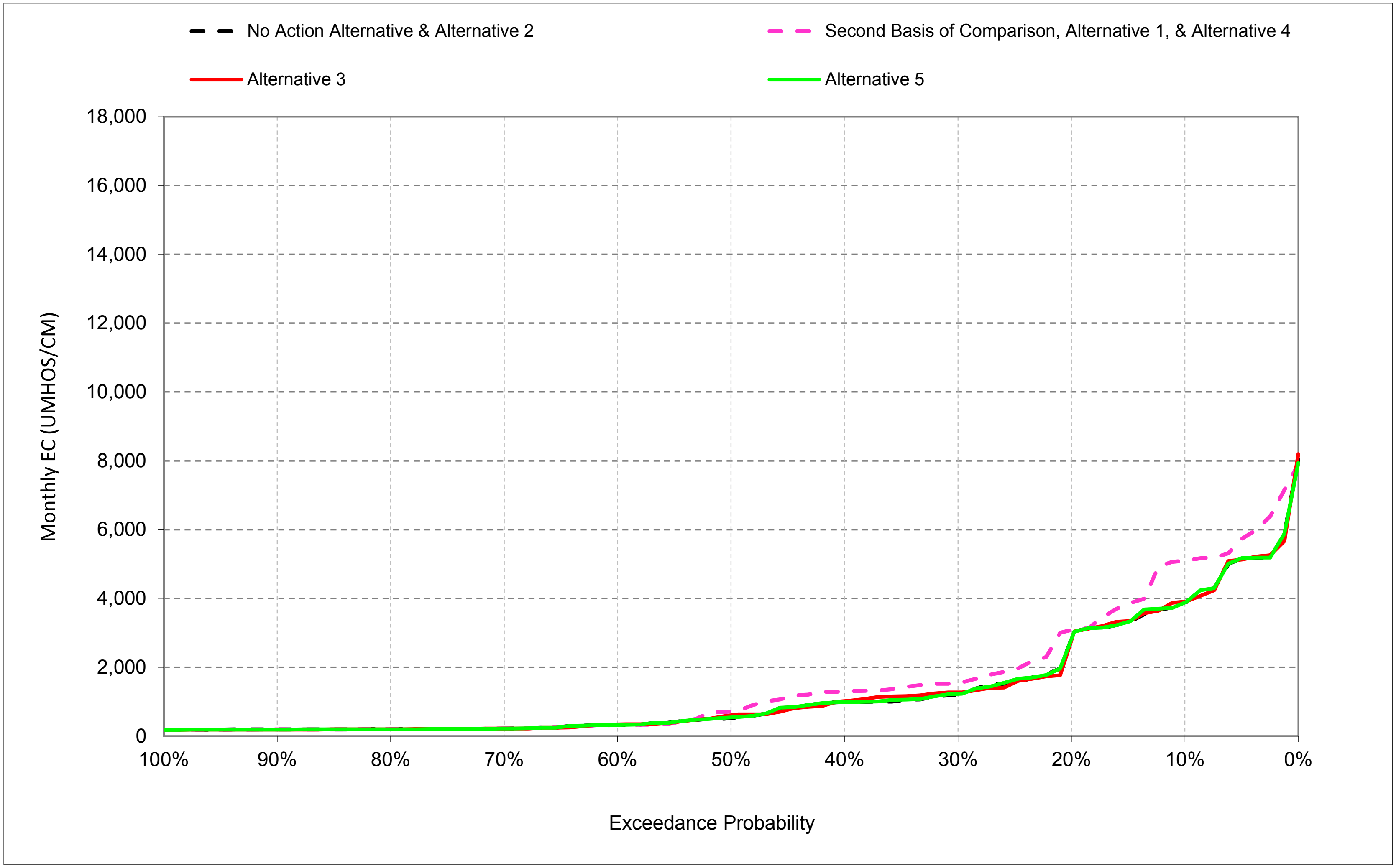
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.5. Chipps Island North Channel Salinity, Electrical Conductivity, February



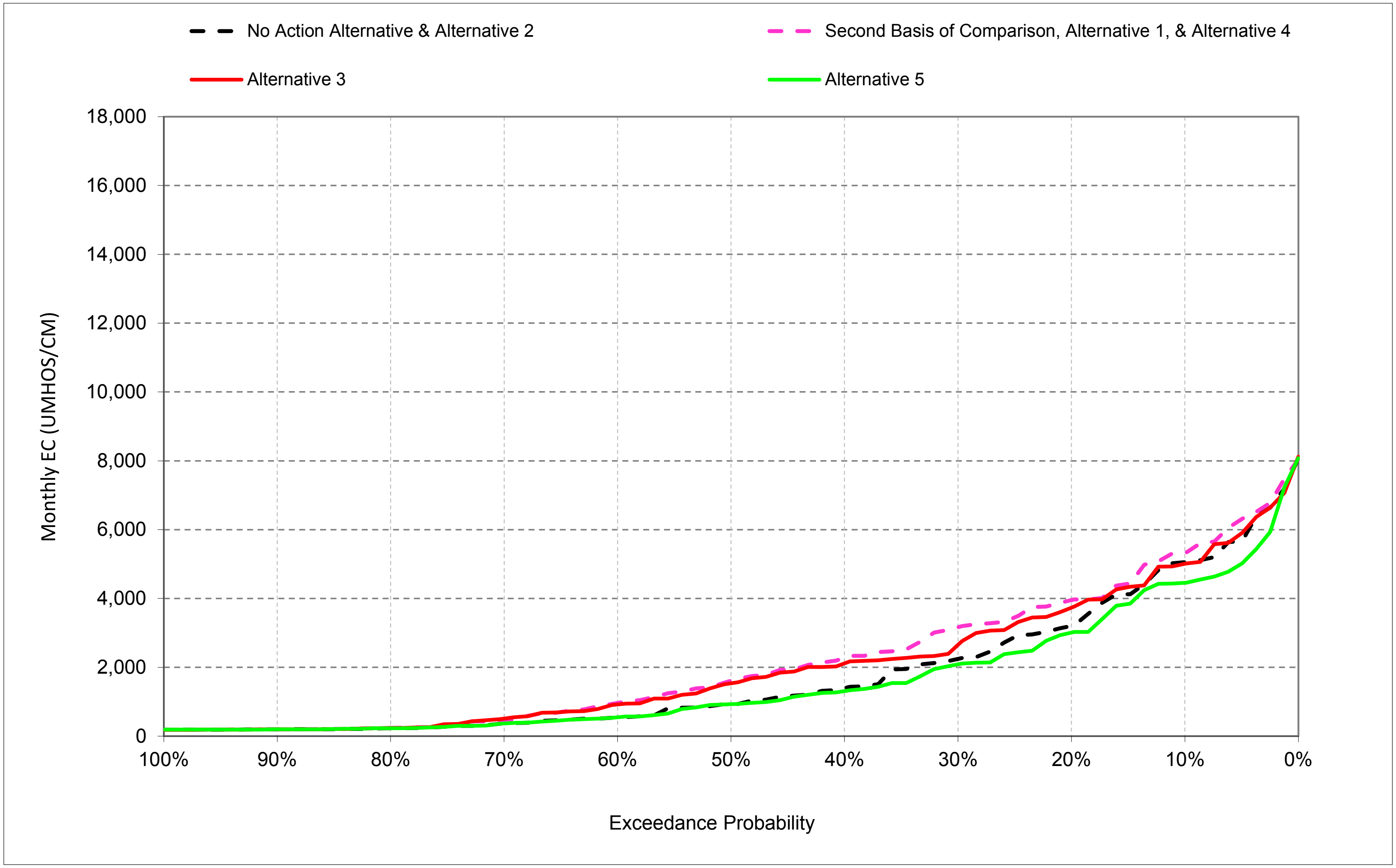
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.6. Chipps Island North Channel Salinity, Electrical Conductivity, March



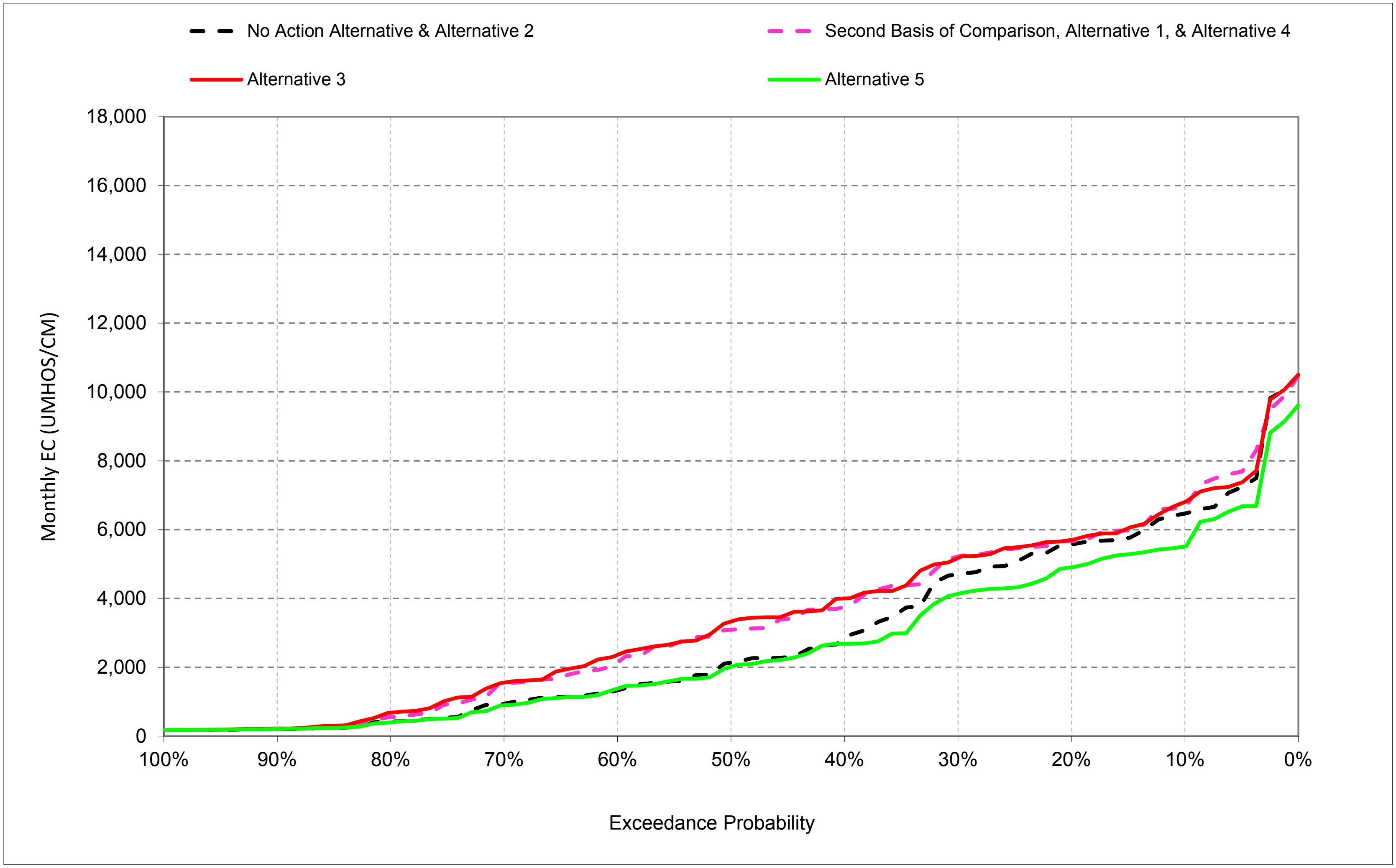
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.7. Chipps Island North Channel Salinity, Electrical Conductivity, April



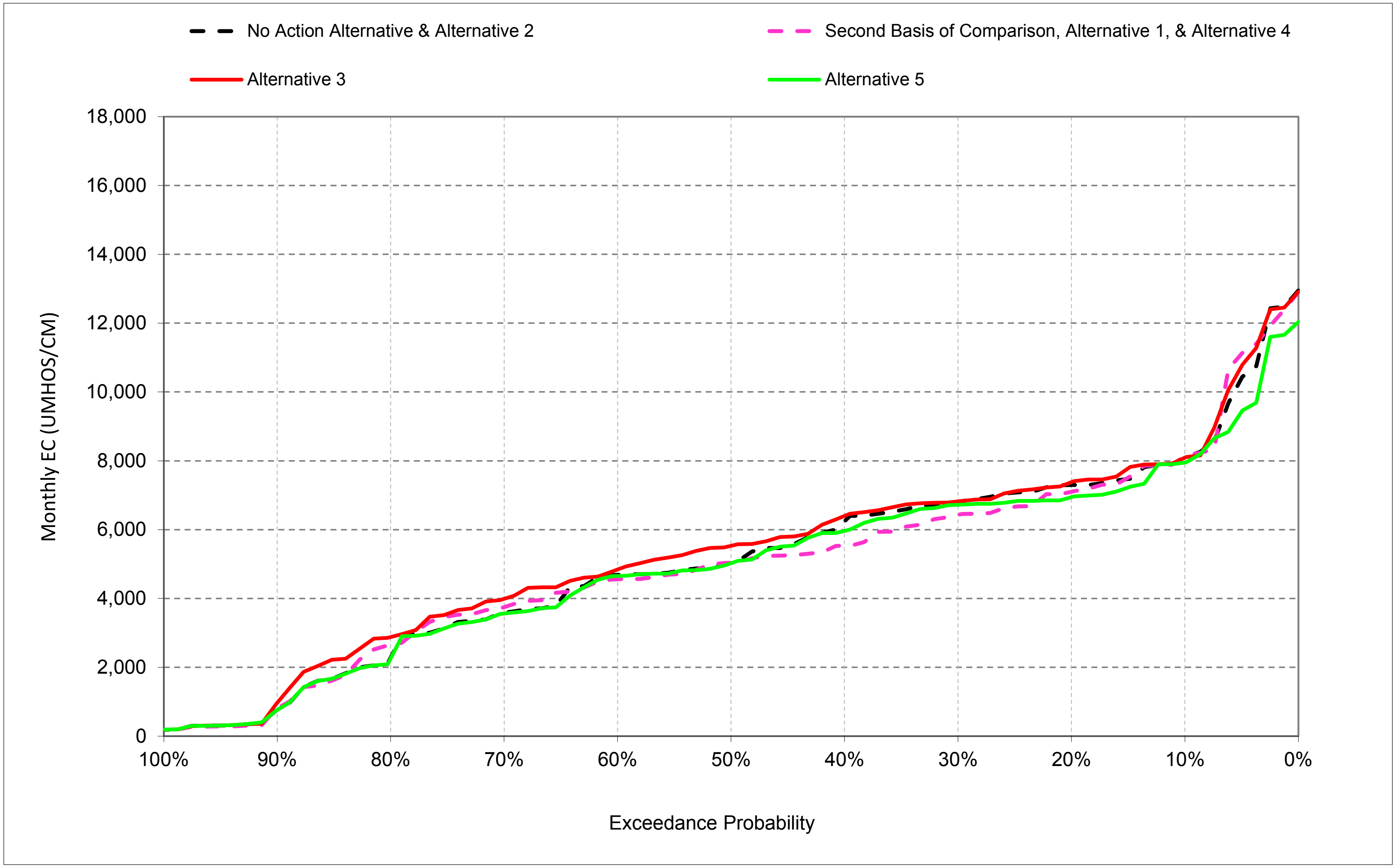
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.8. Chipps Island North Channel Salinity, Electrical Conductivity, May



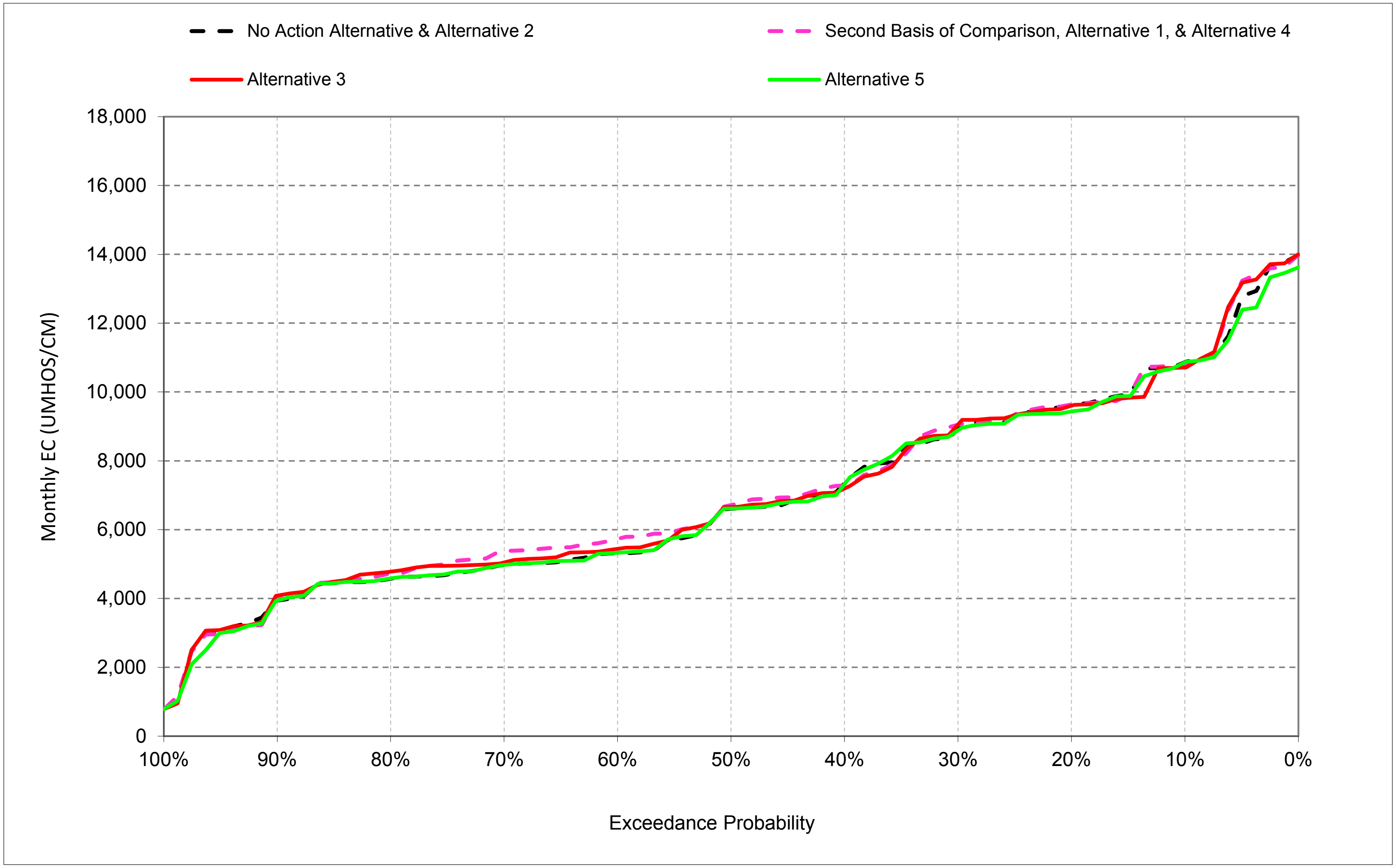
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.9. Chipps Island North Channel Salinity, Electrical Conductivity, June



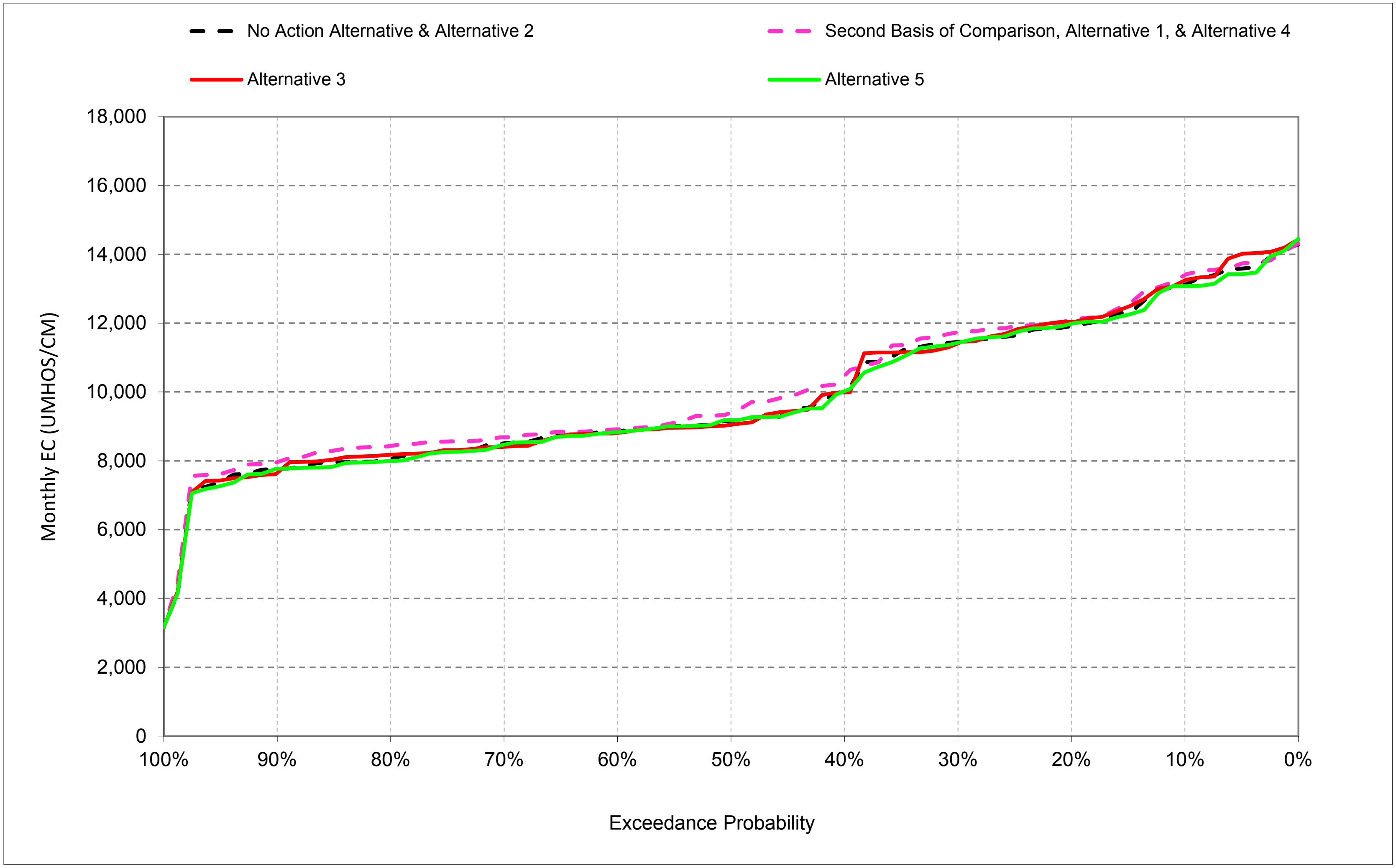
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.10. Chipps Island North Channel Salinity, Electrical Conductivity, July



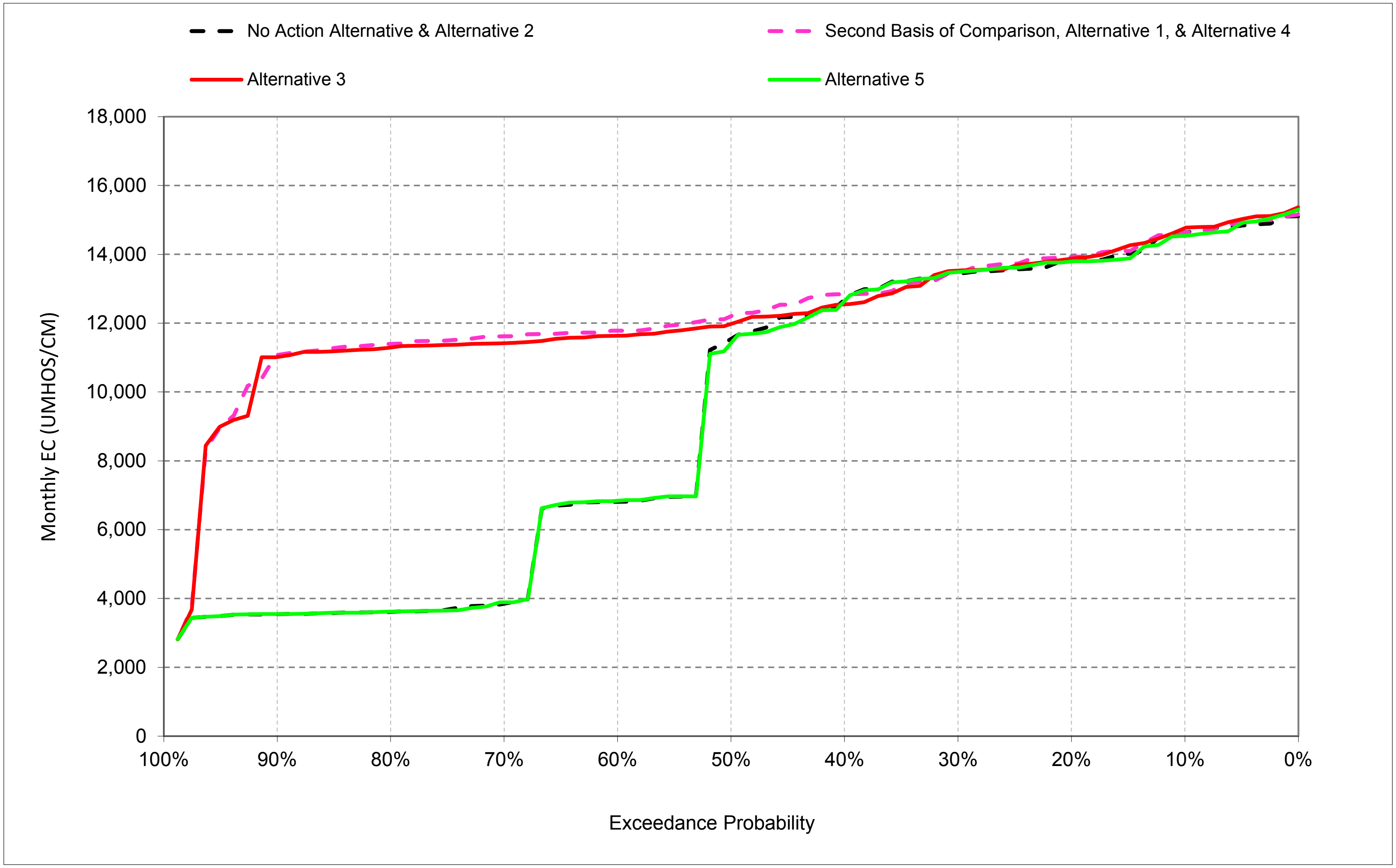
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.11. Chipps Island North Channel Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.1.12. Chipps Island North Channel Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.1.1. Chipps Island North Channel Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	16,091	16,410	14,299	9,461	4,594	3,874	5,056	6,466	8,102	10,866	13,118	14,635
20%	14,910	14,654	12,403	8,195	2,790	2,822	3,202	5,574	7,296	9,620	11,914	13,816
30%	14,772	14,200	8,965	6,650	1,543	1,207	2,243	4,702	6,807	8,917	11,452	13,448
40%	14,450	12,367	7,870	3,908	946	991	1,395	2,830	6,240	7,347	10,052	12,678
50%	13,338	7,076	6,955	2,892	544	529	931	2,133	5,033	6,606	9,166	11,541
60%	7,131	6,762	6,284	1,461	291	326	541	1,331	4,686	5,315	8,862	6,808
70%	3,743	3,734	2,848	396	218	220	367	938	3,585	4,973	8,504	3,923
80%	3,619	3,443	1,049	229	206	201	226	423	2,273	4,576	8,046	3,626
90%	3,476	3,273	390	196	192	192	195	204	755	3,933	7,763	3,547
Long Term												
Full Simulation Period[b]	9,942	8,989	6,959	4,015	1,732	1,360	1,818	2,921	5,139	6,966	9,887	9,289
Water Year Types[c]												
Wet (32%)	7,505	6,020	2,479	856	256	293	391	718	2,367	4,039	7,978	3,597
Above Normal (16%)	11,854	9,256	6,254	1,827	537	411	586	1,368	4,321	5,149	8,193	6,812
Below Normal (13%)	7,604	7,339	7,403	4,923	2,016	1,846	2,203	3,361	5,869	6,803	9,374	12,271
Dry (24%)	10,759	10,494	9,724	6,326	2,523	1,552	2,290	3,929	6,302	9,154	11,603	13,394
Critical (15%)	13,934	14,136	12,413	8,549	4,648	3,936	5,109	7,293	9,421	11,781	13,470	14,728

Alternative 1

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	15,961	16,152	14,331	11,845	6,611	5,098	5,332	6,664	8,134	10,775	13,396	14,633
20%	14,806	14,596	14,156	10,477	3,954	3,083	3,952	5,660	7,103	9,633	12,108	13,927
30%	14,458	14,288	13,345	8,975	2,610	1,554	3,162	5,215	6,426	9,044	11,737	13,478
40%	14,255	14,041	12,641	6,162	1,291	1,300	2,276	3,751	5,531	7,277	10,469	12,838
50%	13,846	13,701	11,175	4,328	793	716	1,610	3,093	5,039	6,713	9,402	12,201
60%	13,497	13,166	8,523	2,101	389	323	963	2,145	4,558	5,729	8,914	11,781
70%	13,263	12,918	4,786	454	222	220	453	1,546	3,749	5,378	8,683	11,614
80%	12,860	11,919	2,181	256	206	203	240	555	2,650	4,714	8,429	11,397
90%	11,641	6,920	655	199	191	193	197	215	807	3,971	7,962	11,076
Long Term												
Full Simulation Period[b]	13,474	12,472	8,946	5,099	2,233	1,613	2,197	3,378	5,058	7,093	10,105	12,315
Water Year Types[c]												
Wet (32%)	12,231	10,658	3,836	1,189	287	308	569	1,037	2,348	4,229	8,134	10,527
Above Normal (16%)	14,219	12,183	8,747	2,689	736	441	937	2,047	4,162	5,316	8,503	11,606
Below Normal (13%)	13,062	11,765	10,141	7,079	2,941	2,139	2,821	3,991	5,330	6,912	9,825	12,457
Dry (24%)	14,004	13,831	12,203	8,117	3,282	1,938	2,785	4,349	6,272	9,155	11,778	13,544
Critical (15%)	14,855	15,096	13,712	9,339	5,676	4,683	5,538	7,708	9,629	11,950	13,581	14,776

Alternative 1 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	-130	-259	32	2,384	2,017	1,224	277	198	31	-91	279	-2
20%	-104	-59	1,753	2,282	1,164	261	750	86	-193	13	193	111
30%	-313	88	4,381	2,325	1,068	347	919	514	-381	127	285	30
40%	-196	1,674	4,771	2,254	344	309	881	921	-709	-70	417	160
50%	508	6,625	4,220	1,436	249	188	679	960	6	107	236	660
60%	6,366	6,404	2,239	641	98	-2	422	814	-128	414	53	4,973
70%	9,521	9,183	1,938	58	4	0	86	608	163	405	179	7,691
80%	9,241	8,476	1,132	27	0	2	14	132	377	138	384	7,772
90%	8,165	3,648	265	2	-1	1	1	11	52	38	198	7,529
Long Term												
Full Simulation Period[b]	3,532	3,483	1,988	1,084	501	252	379	457	-80	126	218	3,026
Water Year Types[c]												
Wet (32%)	4,726	4,639	1,357	333	31	15	178	320	-19	191	156	6,930
Above Normal (16%)	2,366	2,927	2,493	861	199	30	351	678	-158	167	310	4,794
Below Normal (13%)	5,458	4,426	2,739	2,156	925	293	619	630	-539	109	451	186
Dry (24%)	3,245	3,337	2,479	1,791	759	386	495	421	-30	1	175	150
Critical (15%)	922	960	1,298	790	1,028	747	430	415	208	169	111	47

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.1.2. Chipps Island North Channel Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	16,091	16,410	14,299	9,461	4,594	3,874	5,056	6,466	8,102	10,866	13,118	14,635
20%	14,910	14,654	12,403	8,195	2,790	2,822	3,202	5,574	7,296	9,620	11,914	13,816
30%	14,772	14,200	8,965	6,650	1,543	1,207	2,243	4,702	6,807	8,917	11,452	13,448
40%	14,450	12,367	7,870	3,908	946	991	1,395	2,830	6,240	7,347	10,052	12,678
50%	13,338	7,076	6,955	2,892	544	529	931	2,133	5,033	6,606	9,166	11,541
60%	7,131	6,762	6,284	1,461	291	326	541	1,331	4,686	5,315	8,862	6,808
70%	3,743	3,734	2,848	396	218	220	367	938	3,585	4,973	8,504	3,923
80%	3,619	3,443	1,049	229	206	201	226	423	2,273	4,576	8,046	3,626
90%	3,476	3,273	390	196	192	192	195	204	755	3,933	7,763	3,547
Long Term												
Full Simulation Period[b]	9,942	8,989	6,959	4,015	1,732	1,360	1,818	2,921	5,139	6,966	9,887	9,289
Water Year Types[c]												
Wet (32%)	7,505	6,020	2,479	856	256	293	391	718	2,367	4,039	7,978	3,597
Above Normal (16%)	11,854	9,256	6,254	1,827	537	411	586	1,368	4,321	5,149	8,193	6,812
Below Normal (13%)	7,604	7,339	7,403	4,923	2,016	1,846	2,203	3,361	5,869	6,803	9,374	12,271
Dry (24%)	10,759	10,494	9,724	6,326	2,523	1,552	2,290	3,929	6,302	9,154	11,603	13,394
Critical (15%)	13,934	14,136	12,413	8,549	4,648	3,936	5,109	7,293	9,421	11,781	13,470	14,728

Alternative 3

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,908	16,423	14,317	10,601	4,830	3,905	5,008	6,802	8,094	10,711	13,243	14,758
20%	14,942	14,734	13,994	9,206	2,759	2,788	3,732	5,704	7,376	9,598	12,036	13,872
30%	14,664	14,371	13,373	8,020	1,632	1,268	2,650	5,173	6,821	9,053	11,410	13,527
40%	14,234	14,068	12,298	4,344	1,072	1,014	2,111	3,997	6,393	7,192	9,989	12,543
50%	13,771	13,812	11,095	3,088	599	605	1,535	3,331	5,529	6,657	9,044	11,979
60%	13,399	13,246	8,573	1,444	264	337	920	2,362	4,843	5,441	8,812	11,631
70%	13,207	12,984	3,639	394	218	220	507	1,554	3,989	5,043	8,407	11,417
80%	12,888	11,831	2,119	223	206	199	233	681	2,875	4,776	8,173	11,292
90%	11,906	6,565	624	197	191	193	195	218	969	4,083	7,647	11,079
Long Term												
Full Simulation Period[b]	13,533	12,580	8,776	4,415	1,757	1,365	2,070	3,425	5,364	7,025	9,924	12,227
Water Year Types[c]												
Wet (32%)	12,172	10,724	3,661	955	264	316	570	1,138	2,652	4,152	7,934	10,469
Above Normal (16%)	14,446	12,291	8,376	2,055	507	403	886	2,142	4,595	5,243	8,311	11,531
Below Normal (13%)	13,235	11,993	10,165	5,620	2,046	1,830	2,629	4,066	6,146	6,810	9,331	12,053
Dry (24%)	13,970	13,908	12,118	7,005	2,519	1,552	2,567	4,407	6,458	9,091	11,671	13,510
Critical (15%)	15,043	15,240	13,449	9,050	4,810	3,940	5,261	7,543	9,534	11,937	13,613	14,808

Alternative 3 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-184	13	18	1,139	236	31	-48	336	-8	-156	126	123
20%	32	79	1,592	1,011	-31	-34	530	129	80	-22	121	56
30%	-108	171	4,409	1,370	89	61	408	471	14	136	-42	79
40%	-216	1,701	4,428	436	126	23	716	1,167	154	-155	-64	-135
50%	433	6,736	4,140	196	55	77	604	1,198	496	51	-122	438
60%	6,268	6,484	2,290	-17	-27	12	379	1,031	157	126	-50	4,824
70%	9,465	9,249	791	-2	0	0	140	616	403	70	-97	7,494
80%	9,269	8,388	1,070	-6	0	-1	7	258	602	200	128	7,666
90%	8,430	3,293	234	1	-1	1	-1	15	214	150	-116	7,533
Long Term												
Full Simulation Period[b]	3,591	3,591	1,817	400	24	5	252	504	226	59	36	2,938
Water Year Types[c]												
Wet (32%)	4,667	4,704	1,181	99	7	23	179	420	285	114	-44	6,871
Above Normal (16%)	2,592	3,035	2,122	228	-30	-8	300	773	275	94	118	4,720
Below Normal (13%)	5,631	4,653	2,762	697	30	-16	426	705	277	6	-43	-218
Dry (24%)	3,210	3,414	2,395	679	-4	1	277	479	156	-63	67	116
Critical (15%)	1,109	1,105	1,035	501	162	4	153	250	113	156	143	80

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.1.3. Chipps Island North Channel Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	16,091	16,410	14,299	9,461	4,594	3,874	5,056	6,466	8,102	10,866	13,118	14,635
20%	14,910	14,654	12,403	8,195	2,790	2,822	3,202	5,574	7,296	9,620	11,914	13,816
30%	14,772	14,200	8,965	6,650	1,543	1,207	2,243	4,702	6,807	8,917	11,452	13,448
40%	14,450	12,367	7,870	3,908	946	991	1,395	2,830	6,240	7,347	10,052	12,678
50%	13,338	7,076	6,955	2,892	544	529	931	2,133	5,033	6,606	9,166	11,541
60%	7,131	6,762	6,284	1,461	291	326	541	1,331	4,686	5,315	8,862	6,808
70%	3,743	3,734	2,848	396	218	220	367	938	3,585	4,973	8,504	3,923
80%	3,619	3,443	1,049	229	206	201	226	423	2,273	4,576	8,046	3,626
90%	3,476	3,273	390	196	192	192	195	204	755	3,933	7,763	3,547
Long Term												
Full Simulation Period[b]	9,942	8,989	6,959	4,015	1,732	1,360	1,818	2,921	5,139	6,966	9,887	9,289
Water Year Types[c]												
Wet (32%)	7,505	6,020	2,479	856	256	293	391	718	2,367	4,039	7,978	3,597
Above Normal (16%)	11,854	9,256	6,254	1,827	537	411	586	1,368	4,321	5,149	8,193	6,812
Below Normal (13%)	7,604	7,339	7,403	4,923	2,016	1,846	2,203	3,361	5,869	6,803	9,374	12,271
Dry (24%)	10,759	10,494	9,724	6,326	2,523	1,552	2,290	3,929	6,302	9,154	11,603	13,394
Critical (15%)	13,934	14,136	12,413	8,549	4,648	3,936	5,109	7,293	9,421	11,781	13,470	14,728

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	16,072	16,300	14,315	9,456	4,605	3,878	4,451	5,504	7,949	10,854	13,079	14,538
20%	15,007	14,656	12,224	8,219	2,795	2,823	3,004	4,902	6,943	9,430	11,983	13,788
30%	14,756	14,204	8,981	6,650	1,543	1,225	2,086	4,133	6,724	8,883	11,431	13,488
40%	14,353	12,335	7,867	3,907	946	989	1,308	2,686	5,965	7,316	10,023	12,642
50%	13,173	7,048	6,970	2,894	545	544	929	2,018	5,023	6,612	9,183	11,422
60%	7,133	6,680	6,286	1,458	290	324	549	1,378	4,653	5,331	8,836	6,841
70%	3,742	3,734	2,811	394	218	220	367	897	3,561	4,972	8,470	3,919
80%	3,622	3,444	1,057	226	206	201	227	400	2,250	4,586	7,997	3,627
90%	3,472	3,274	393	196	192	192	196	204	756	3,937	7,771	3,546
Long Term												
Full Simulation Period[b]	9,934	8,958	6,956	4,041	1,755	1,364	1,666	2,647	4,989	6,908	9,837	9,276
Water Year Types[c]												
Wet (32%)	7,503	6,041	2,482	854	256	293	387	683	2,353	3,997	7,917	3,595
Above Normal (16%)	11,839	9,063	6,185	1,825	537	411	583	1,330	4,297	5,147	8,190	6,831
Below Normal (13%)	7,615	7,345	7,409	4,930	2,014	1,845	2,019	3,071	5,776	6,777	9,327	12,200
Dry (24%)	10,748	10,473	9,753	6,359	2,533	1,556	2,012	3,503	6,110	9,107	11,564	13,388
Critical (15%)	13,904	14,115	12,412	8,670	4,791	3,960	4,708	6,511	8,860	11,576	13,371	14,700

Alternative 5 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	-20	-110	16	-5	11	3	-604	-962	-154	-13	-39	-97
20%	98	2	-178	24	6	1	-198	-673	-353	-190	68	-28
30%	-15	4	16	0	0	18	-157	-569	-84	-34	-22	40
40%	-97	-31	-3	-1	0	-2	-87	-144	-274	-32	-29	-36
50%	-165	-27	15	3	1	15	-2	-115	-10	6	17	-119
60%	2	-82	2	-3	-1	-1	8	47	-33	16	-26	33
70%	-1	-1	-37	-2	0	0	0	-41	-24	-1	-34	-5
80%	4	1	8	-3	0	0	1	-23	-23	10	-49	1
90%	-4	1	3	0	0	0	0	0	1	4	7	0
Long Term												
Full Simulation Period[b]	-8	-31	-2	26	23	4	-153	-274	-150	-58	-50	-13
Water Year Types[c]												
Wet (32%)	-2	21	2	-1	0	0	-4	-34	-14	-42	-62	-2
Above Normal (16%)	-15	-193	-69	-3	0	0	-3	-39	-24	-2	-2	20
Below Normal (13%)	11	6	6	7	-2	-1	-183	-290	-94	-26	-47	-72
Dry (24%)	-11	-21	29	33	10	4	-278	-425	-192	-46	-40	-6
Critical (15%)	-29	-21	-1	121	143	24	-401	-782	-561	-205	-99	-29

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.1.4. Chipps Island North Channel Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,961	16,152	14,331	11,845	6,611	5,098	5,332	6,664	8,134	10,775	13,396	14,633
20%	14,806	14,596	14,156	10,477	3,954	3,083	3,952	5,660	7,103	9,633	12,108	13,927
30%	14,458	14,288	13,345	8,975	2,610	1,554	3,162	5,215	6,426	9,044	11,737	13,478
40%	14,255	14,041	12,641	6,162	1,291	1,300	2,276	3,751	5,531	7,277	10,469	12,838
50%	13,846	13,701	11,175	4,328	793	716	1,610	3,093	5,039	6,713	9,402	12,201
60%	13,497	13,166	8,523	2,101	389	323	963	2,145	4,558	5,729	8,914	11,781
70%	13,263	12,918	4,786	454	222	220	453	1,546	3,749	5,378	8,683	11,614
80%	12,860	11,919	2,181	256	206	203	240	555	2,650	4,714	8,429	11,397
90%	11,641	6,920	655	199	191	193	197	215	807	3,971	7,962	11,076
Long Term												
Full Simulation Period[b]	13,474	12,472	8,946	5,099	2,233	1,613	2,197	3,378	5,058	7,093	10,105	12,315
Water Year Types[c]												
Wet (32%)	12,231	10,658	3,836	1,189	287	308	569	1,037	2,348	4,229	8,134	10,527
Above Normal (16%)	14,219	12,183	8,747	2,689	736	441	937	2,047	4,162	5,316	8,503	11,606
Below Normal (13%)	13,062	11,765	10,141	7,079	2,941	2,139	2,821	3,991	5,330	6,912	9,825	12,457
Dry (24%)	14,004	13,831	12,203	8,117	3,282	1,938	2,785	4,349	6,272	9,155	11,778	13,544
Critical (15%)	14,855	15,096	13,712	9,339	5,676	4,683	5,538	7,708	9,629	11,950	13,581	14,776

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	16,091	16,410	14,299	9,461	4,594	3,874	5,056	6,466	8,102	10,866	13,118	14,635
20%	14,910	14,654	12,403	8,195	2,790	2,822	3,202	5,574	7,296	9,620	11,914	13,816
30%	14,772	14,200	8,965	6,650	1,543	1,207	2,243	4,702	6,807	8,917	11,452	13,448
40%	14,450	12,367	7,870	3,908	946	991	1,395	2,830	6,240	7,347	10,052	12,678
50%	13,338	7,076	6,955	2,892	544	529	931	2,133	5,033	6,606	9,166	11,541
60%	7,131	6,762	6,284	1,461	291	326	541	1,331	4,686	5,315	8,862	6,808
70%	3,743	3,734	2,848	396	218	220	367	938	3,585	4,973	8,504	3,923
80%	3,619	3,443	1,049	229	206	201	226	423	2,273	4,576	8,046	3,626
90%	3,476	3,273	390	196	192	192	195	204	755	3,933	7,763	3,547
Long Term												
Full Simulation Period[b]	9,942	8,989	6,959	4,015	1,732	1,360	1,818	2,921	5,139	6,966	9,887	9,289
Water Year Types[c]												
Wet (32%)	7,505	6,020	2,479	856	256	293	391	718	2,367	4,039	7,978	3,597
Above Normal (16%)	11,854	9,256	6,254	1,827	537	411	586	1,368	4,321	5,149	8,193	6,812
Below Normal (13%)	7,604	7,339	7,403	4,923	2,016	1,846	2,203	3,361	5,869	6,803	9,374	12,271
Dry (24%)	10,759	10,494	9,724	6,326	2,523	1,552	2,290	3,929	6,302	9,154	11,603	13,394
Critical (15%)	13,934	14,136	12,413	8,549	4,648	3,936	5,109	7,293	9,421	11,781	13,470	14,728

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	130	259	-32	-2,384	-2,017	-1,224	-277	-198	-31	91	-279	2
20%	104	59	-1,753	-2,282	-1,164	-261	-750	-86	193	-13	-193	-111
30%	313	-88	-4,381	-2,325	-1,068	-347	-919	-514	381	-127	-285	-30
40%	196	-1,674	-4,771	-2,254	-344	-309	-881	-921	709	70	-417	-160
50%	-508	-6,625	-4,220	-1,436	-249	-188	-679	-960	-6	-107	-236	-660
60%	-6,366	-6,404	-2,239	-641	-98	2	-422	-814	128	-414	-53	-4,973
70%	-9,521	-9,183	-1,938	-58	-4	0	-86	-608	-163	-405	-179	-7,691
80%	-9,241	-8,476	-1,132	-27	0	-2	-14	-132	-377	-138	-384	-7,772
90%	-8,165	-3,648	-265	-2	1	-1	-1	-11	-52	-38	-198	-7,529
Long Term												
Full Simulation Period[b]	-3,532	-3,483	-1,988	-1,084	-501	-252	-379	-457	80	-126	-218	-3,026
Water Year Types[c]												
Wet (32%)	-4,726	-4,639	-1,357	-333	-31	-15	-178	-320	19	-191	-156	-6,930
Above Normal (16%)	-2,366	-2,927	-2,493	-861	-199	-30	-351	-678	158	-167	-310	-4,794
Below Normal (13%)	-5,458	-4,426	-2,739	-2,156	-925	-293	-619	-630	539	-109	-451	-186
Dry (24%)	-3,245	-3,337	-2,479	-1,791	-759	-386	-495	-421	30	-1	-175	-150
Critical (15%)	-922	-960	-1,298	-790	-1,028	-747	-430	-415	-208	-169	-111	-47

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.1.5. Chipps Island North Channel Salinity, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,961	16,152	14,331	11,845	6,611	5,098	5,332	6,664	8,134	10,775	13,396	14,633
20%	14,806	14,596	14,156	10,477	3,954	3,083	3,952	5,660	7,103	9,633	12,108	13,927
30%	14,458	14,288	13,345	8,975	2,610	1,554	3,162	5,215	6,426	9,044	11,737	13,478
40%	14,255	14,041	12,641	6,162	1,291	1,300	2,276	3,751	5,531	7,277	10,469	12,838
50%	13,846	13,701	11,175	4,328	793	716	1,610	3,093	5,039	6,713	9,402	12,201
60%	13,497	13,166	8,523	2,101	389	323	963	2,145	4,558	5,729	8,914	11,781
70%	13,263	12,918	4,786	454	222	220	453	1,546	3,749	5,378	8,683	11,614
80%	12,860	11,919	2,181	256	206	203	240	555	2,650	4,714	8,429	11,397
90%	11,641	6,920	655	199	191	193	197	215	807	3,971	7,962	11,076
Long Term												
Full Simulation Period[b]	13,474	12,472	8,946	5,099	2,233	1,613	2,197	3,378	5,058	7,093	10,105	12,315
Water Year Types[c]												
Wet (32%)	12,231	10,658	3,836	1,189	287	308	569	1,037	2,348	4,229	8,134	10,527
Above Normal (16%)	14,219	12,183	8,747	2,689	736	441	937	2,047	4,162	5,316	8,503	11,606
Below Normal (13%)	13,062	11,765	10,141	7,079	2,941	2,139	2,821	3,991	5,330	6,912	9,825	12,457
Dry (24%)	14,004	13,831	12,203	8,117	3,282	1,938	2,785	4,349	6,272	9,155	11,778	13,544
Critical (15%)	14,855	15,096	13,712	9,339	5,676	4,683	5,538	7,708	9,629	11,950	13,581	14,776

Alternative 3

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,908	16,423	14,317	10,601	4,830	3,905	5,008	6,802	8,094	10,711	13,243	14,758
20%	14,942	14,734	13,994	9,206	2,759	2,788	3,732	5,704	7,376	9,598	12,036	13,872
30%	14,664	14,371	13,373	8,020	1,632	1,268	2,650	5,173	6,821	9,053	11,410	13,527
40%	14,234	14,068	12,298	4,344	1,072	1,014	2,111	3,997	6,393	7,192	9,989	12,543
50%	13,771	13,812	11,095	3,088	599	605	1,535	3,331	5,529	6,657	9,044	11,979
60%	13,399	13,246	8,573	1,444	264	337	920	2,362	4,843	5,441	8,812	11,631
70%	13,207	12,984	3,639	394	218	220	507	1,554	3,989	5,043	8,407	11,417
80%	12,888	11,831	2,119	223	206	199	233	681	2,875	4,776	8,173	11,292
90%	11,906	6,565	624	197	191	193	195	218	969	4,083	7,647	11,079
Long Term												
Full Simulation Period[b]	13,533	12,580	8,776	4,415	1,757	1,365	2,070	3,425	5,364	7,025	9,924	12,227
Water Year Types[c]												
Wet (32%)	12,172	10,724	3,661	955	264	316	570	1,138	2,652	4,152	7,934	10,469
Above Normal (16%)	14,446	12,291	8,376	2,055	507	403	886	2,142	4,595	5,243	8,311	11,531
Below Normal (13%)	13,235	11,993	10,165	5,620	2,046	1,830	2,629	4,066	6,146	6,810	9,331	12,053
Dry (24%)	13,970	13,908	12,118	7,005	2,519	1,552	2,567	4,407	6,458	9,091	11,671	13,510
Critical (15%)	15,043	15,240	13,449	9,050	4,810	3,940	5,261	7,543	9,534	11,937	13,613	14,808

Alternative 3 minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-54	272	-14	-1,245	-1,781	-1,193	-324	138	-40	-64	-153	125
20%	136	138	-162	-1,271	-1,195	-295	-220	44	274	-35	-72	-56
30%	205	83	28	-954	-978	-286	-511	-42	395	8	-327	49
40%	-21	26	-343	-1,818	-219	-286	-165	246	863	-85	-481	-295
50%	-75	112	-80	-1,240	-194	-111	-75	238	490	-56	-358	-222
60%	-98	80	51	-657	-125	14	-43	217	285	-288	-102	-149
70%	-56	66	-1,147	-60	-4	0	54	9	240	-335	-276	-197
80%	28	-88	-62	-33	1	-3	-7	126	225	63	-256	-106
90%	265	-355	-31	-1	0	-1	-2	3	162	112	-315	4
Long Term												
Full Simulation Period[b]	59	108	-170	-684	-477	-248	-127	47	306	-67	-182	-88
Water Year Types[c]												
Wet (32%)	-60	65	-175	-234	-23	8	1	101	304	-77	-200	-58
Above Normal (16%)	226	107	-371	-634	-229	-38	-51	95	433	-73	-192	-74
Below Normal (13%)	173	228	23	-1,459	-895	-309	-192	75	816	-103	-494	-404
Dry (24%)	-34	77	-85	-1,112	-763	-385	-218	58	186	-64	-108	-34
Critical (15%)	187	145	-263	-289	-866	-743	-277	-166	-95	-13	32	32

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.1.6. Chipps Island North Channel Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	15,961	16,152	14,331	11,845	6,611	5,098	5,332	6,664	8,134	10,775	13,396	14,633
20%	14,806	14,596	14,156	10,477	3,954	3,083	3,952	5,660	7,103	9,633	12,108	13,927
30%	14,458	14,288	13,345	8,975	2,610	1,554	3,162	5,215	6,426	9,044	11,737	13,478
40%	14,255	14,041	12,641	6,162	1,291	1,300	2,276	3,751	5,531	7,277	10,469	12,838
50%	13,846	13,701	11,175	4,328	793	716	1,610	3,093	5,039	6,713	9,402	12,201
60%	13,497	13,166	8,523	2,101	389	323	963	2,145	4,558	5,729	8,914	11,781
70%	13,263	12,918	4,786	454	222	220	453	1,546	3,749	5,378	8,683	11,614
80%	12,860	11,919	2,181	256	206	203	240	555	2,650	4,714	8,429	11,397
90%	11,641	6,920	655	199	191	193	197	215	807	3,971	7,962	11,076
Long Term												
Full Simulation Period[b]	13,474	12,472	8,946	5,099	2,233	1,613	2,197	3,378	5,058	7,093	10,105	12,315
Water Year Types[c]												
Wet (32%)	12,231	10,658	3,836	1,189	287	308	569	1,037	2,348	4,229	8,134	10,527
Above Normal (16%)	14,219	12,183	8,747	2,689	736	441	937	2,047	4,162	5,316	8,503	11,606
Below Normal (13%)	13,062	11,765	10,141	7,079	2,941	2,139	2,821	3,991	5,330	6,912	9,825	12,457
Dry (24%)	14,004	13,831	12,203	8,117	3,282	1,938	2,785	4,349	6,272	9,155	11,778	13,544
Critical (15%)	14,855	15,096	13,712	9,339	5,676	4,683	5,538	7,708	9,629	11,950	13,581	14,776

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	16,072	16,300	14,315	9,456	4,605	3,878	4,451	5,504	7,949	10,854	13,079	14,538
20%	15,007	14,656	12,224	8,219	2,795	2,823	3,004	4,902	6,943	9,430	11,983	13,788
30%	14,756	14,204	8,981	6,650	1,543	1,225	2,086	4,133	6,724	8,883	11,431	13,488
40%	14,353	12,335	7,867	3,907	946	989	1,308	2,686	5,965	7,316	10,023	12,642
50%	13,173	7,048	6,970	2,894	545	544	929	2,018	5,023	6,612	9,183	11,422
60%	7,133	6,680	6,286	1,458	290	324	549	1,378	4,653	5,331	8,836	6,841
70%	3,742	3,734	2,811	394	218	220	367	897	3,561	4,972	8,470	3,919
80%	3,622	3,444	1,057	226	206	201	227	400	2,250	4,586	7,997	3,627
90%	3,472	3,274	393	196	192	192	196	204	756	3,937	7,771	3,546
Long Term												
Full Simulation Period[b]	9,934	8,958	6,956	4,041	1,755	1,364	1,666	2,647	4,989	6,908	9,837	9,276
Water Year Types[c]												
Wet (32%)	7,503	6,041	2,482	854	256	293	387	683	2,353	3,997	7,917	3,595
Above Normal (16%)	11,839	9,063	6,185	1,825	537	411	583	1,330	4,297	5,147	8,190	6,831
Below Normal (13%)	7,615	7,345	7,409	4,930	2,014	1,845	2,019	3,071	5,776	6,777	9,327	12,200
Dry (24%)	10,748	10,473	9,753	6,359	2,533	1,556	2,012	3,503	6,110	9,107	11,564	13,388
Critical (15%)	13,904	14,115	12,412	8,670	4,791	3,960	4,708	6,511	8,860	11,576	13,371	14,700

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	110	149	-16	-2,389	-2,006	-1,221	-881	-1,159	-185	79	-317	-96
20%	202	60	-1,932	-2,258	-1,158	-260	-948	-759	-160	-203	-125	-139
30%	298	-84	-4,364	-2,324	-1,068	-329	-1,076	-1,082	297	-161	-306	10
40%	98	-1,706	-4,774	-2,255	-344	-311	-968	-1,065	435	38	-446	-196
50%	-673	-6,652	-4,206	-1,434	-248	-173	-681	-1,075	-16	-101	-219	-779
60%	-6,364	-6,486	-2,237	-644	-99	1	-415	-766	95	-398	-79	-4,940
70%	-9,522	-9,184	-1,975	-60	-4	0	-86	-649	-187	-406	-214	-7,696
80%	-9,237	-8,475	-1,124	-30	1	-2	-13	-155	-401	-127	-432	-7,770
90%	-8,168	-3,647	-262	-2	1	-1	-1	-11	-51	-34	-191	-7,529
Long Term												
Full Simulation Period[b]	-3,541	-3,514	-1,990	-1,058	-478	-248	-532	-731	-70	-185	-268	-3,039
Water Year Types[c]												
Wet (32%)	-4,728	-4,618	-1,354	-334	-31	-15	-182	-354	5	-233	-217	-6,932
Above Normal (16%)	-2,381	-3,120	-2,562	-864	-199	-30	-354	-717	134	-169	-313	-4,775
Below Normal (13%)	-5,447	-4,420	-2,733	-2,149	-927	-294	-802	-921	446	-135	-498	-258
Dry (24%)	-3,256	-3,358	-2,450	-1,758	-749	-382	-774	-846	-162	-47	-215	-156
Critical (15%)	-951	-981	-1,299	-670	-885	-724	-830	-1,197	-769	-374	-210	-76

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

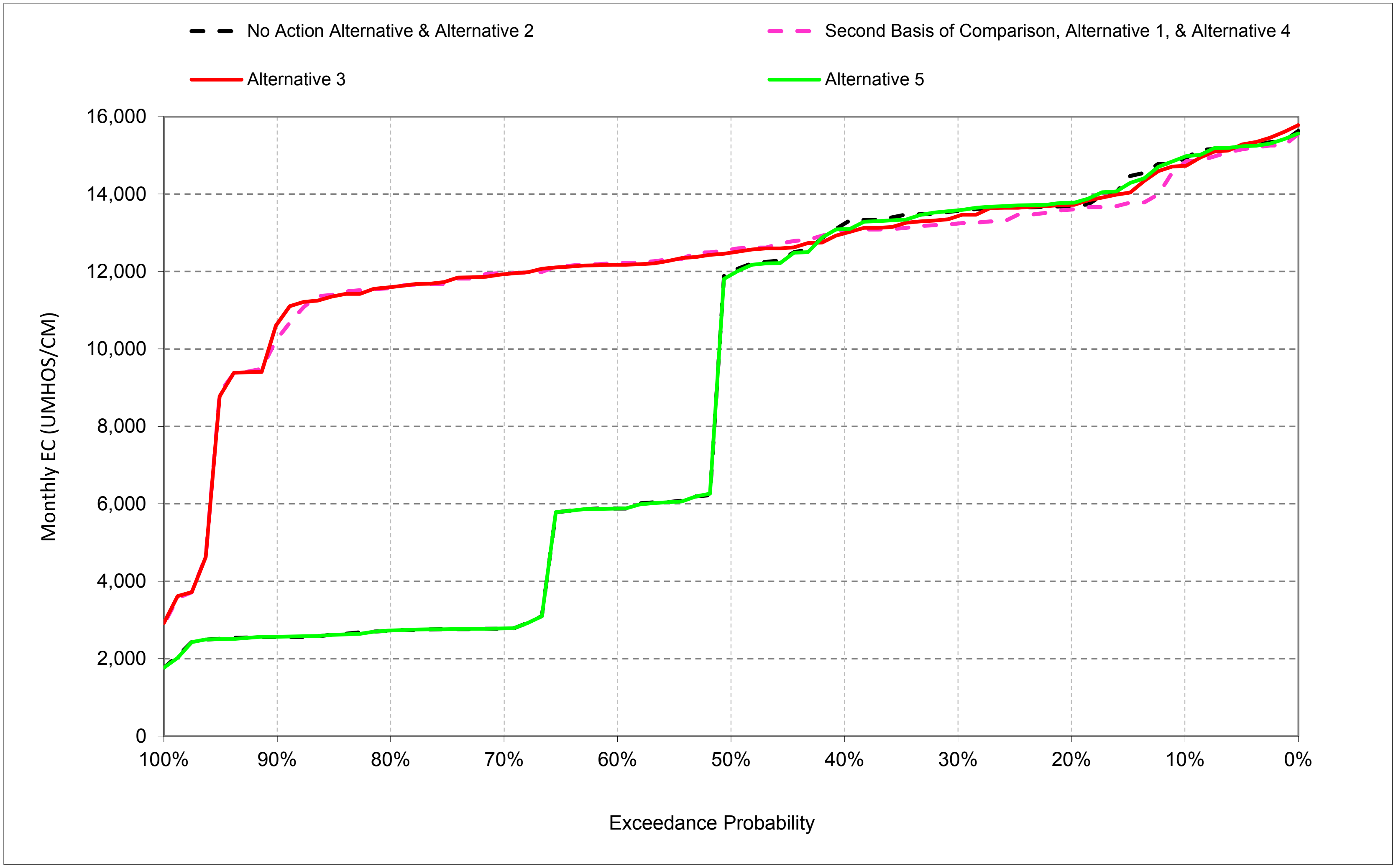
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

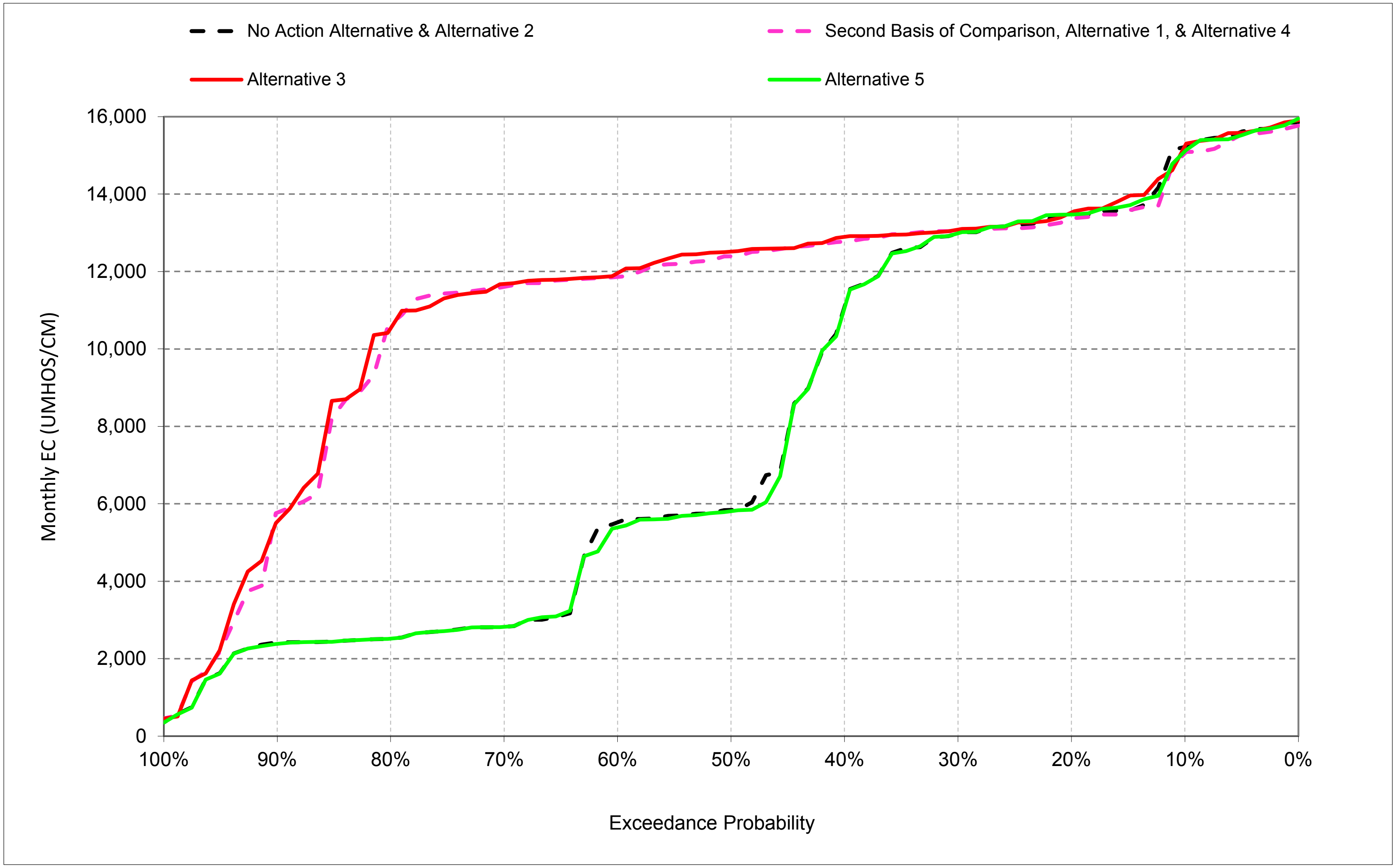
B.10.2 Chipps Island South Channel Salinity

Figure 6E.B.10.2.1. Chipps Island South Channel Salinity, Electrical Conductivity, October



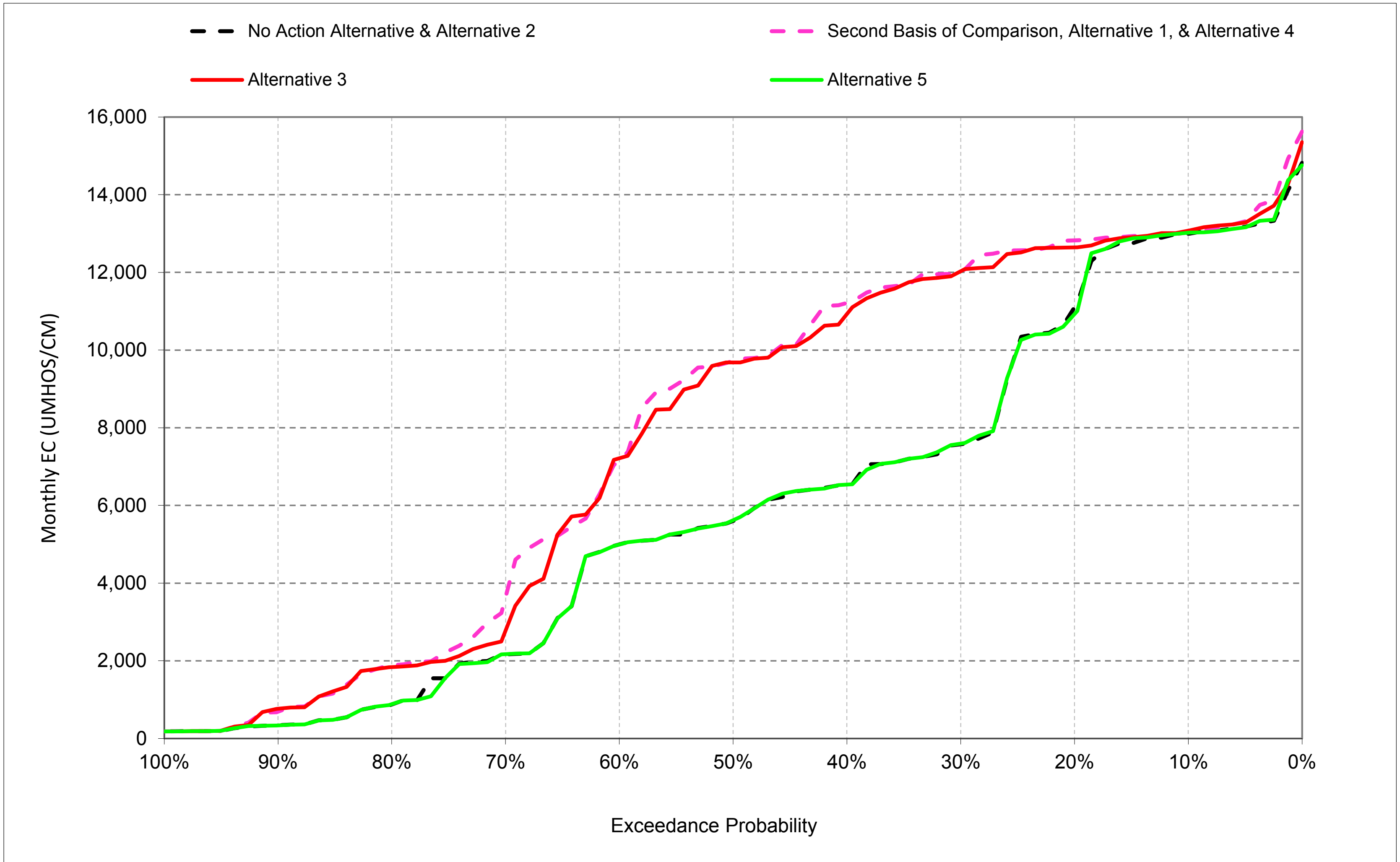
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.2. Chipps Island South Channel Salinity, Electrical Conductivity, November



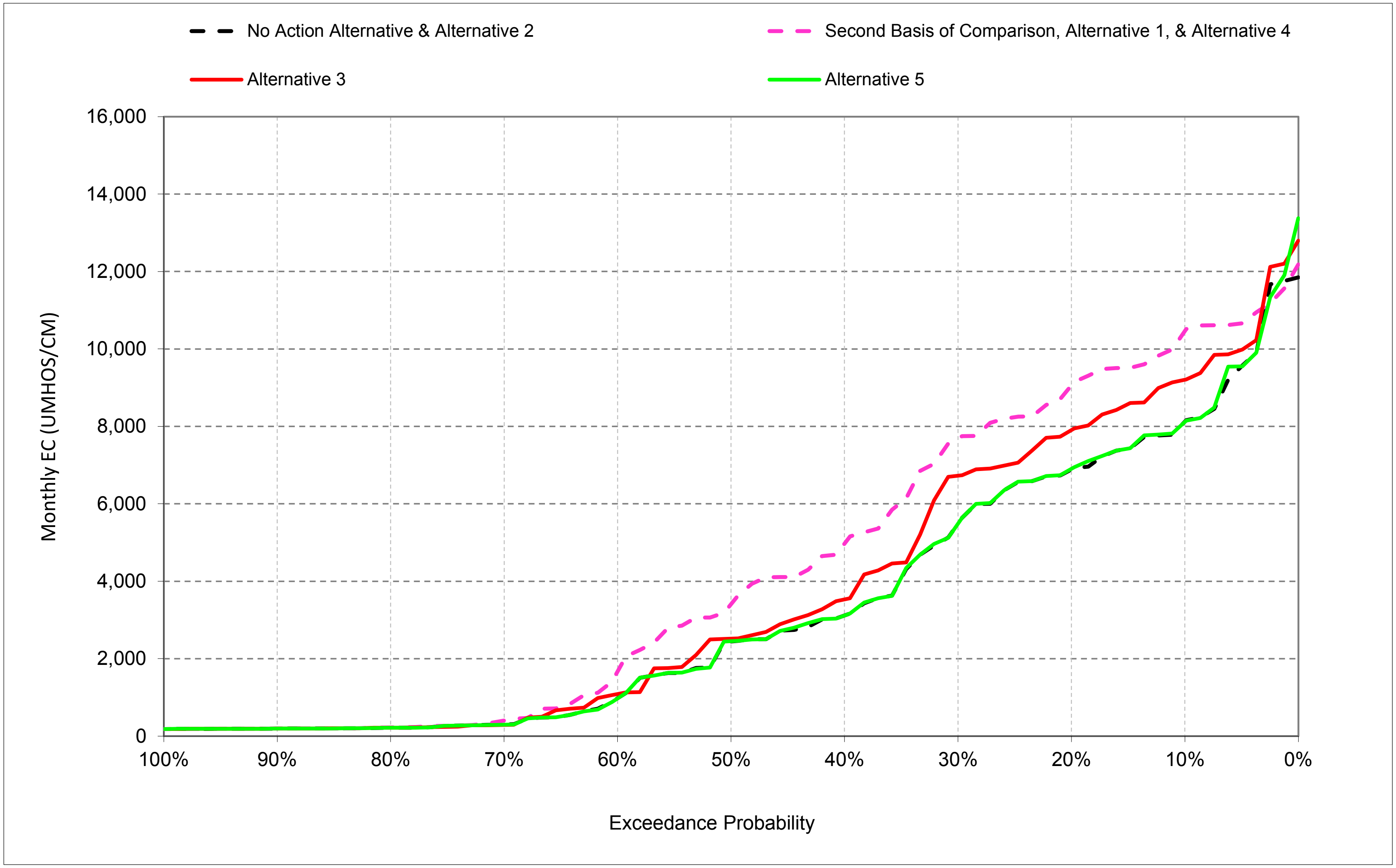
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.3. Chipps Island South Channel Salinity, Electrical Conductivity, December



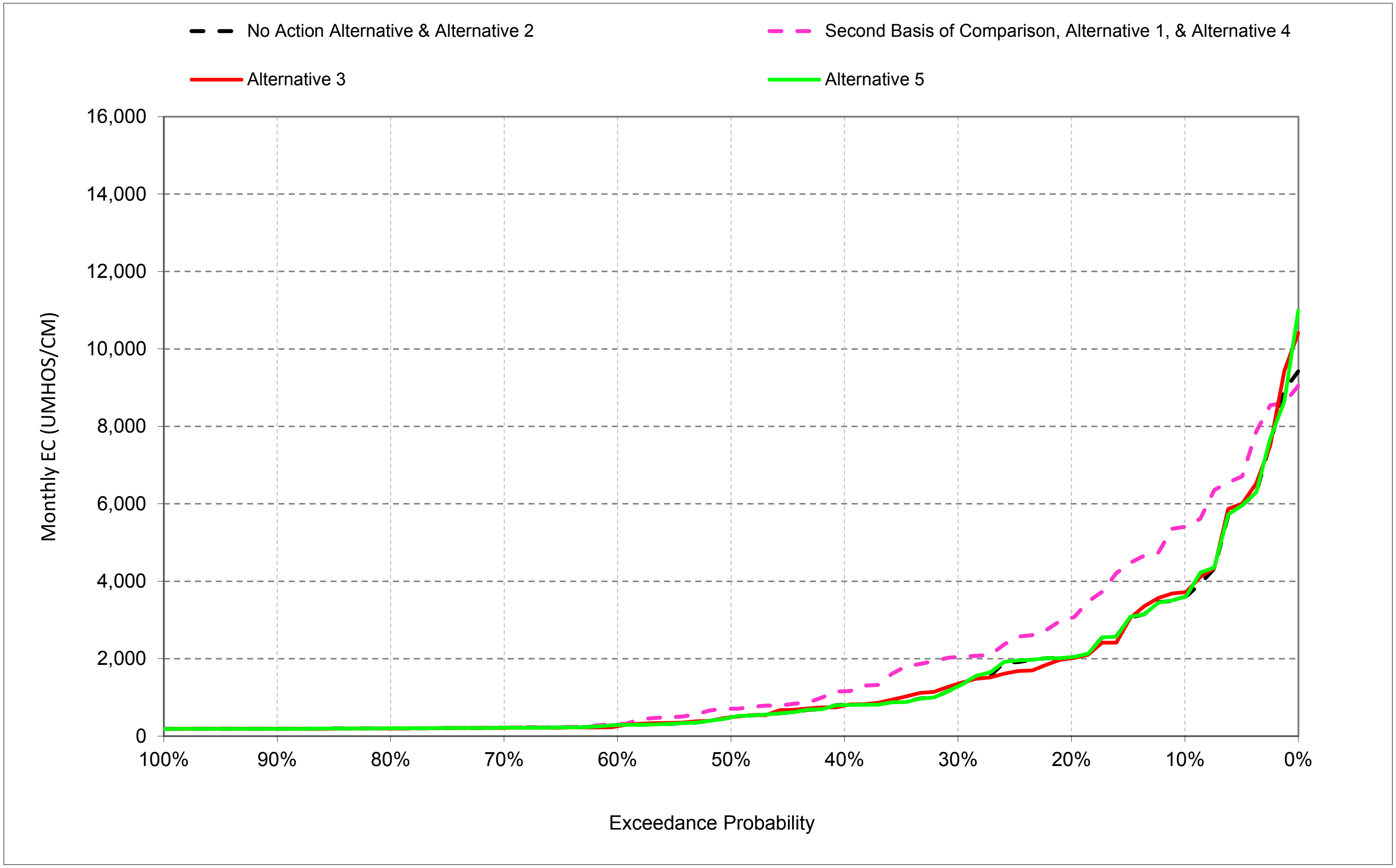
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.4. Chipps Island South Channel Salinity, Electrical Conductivity, January



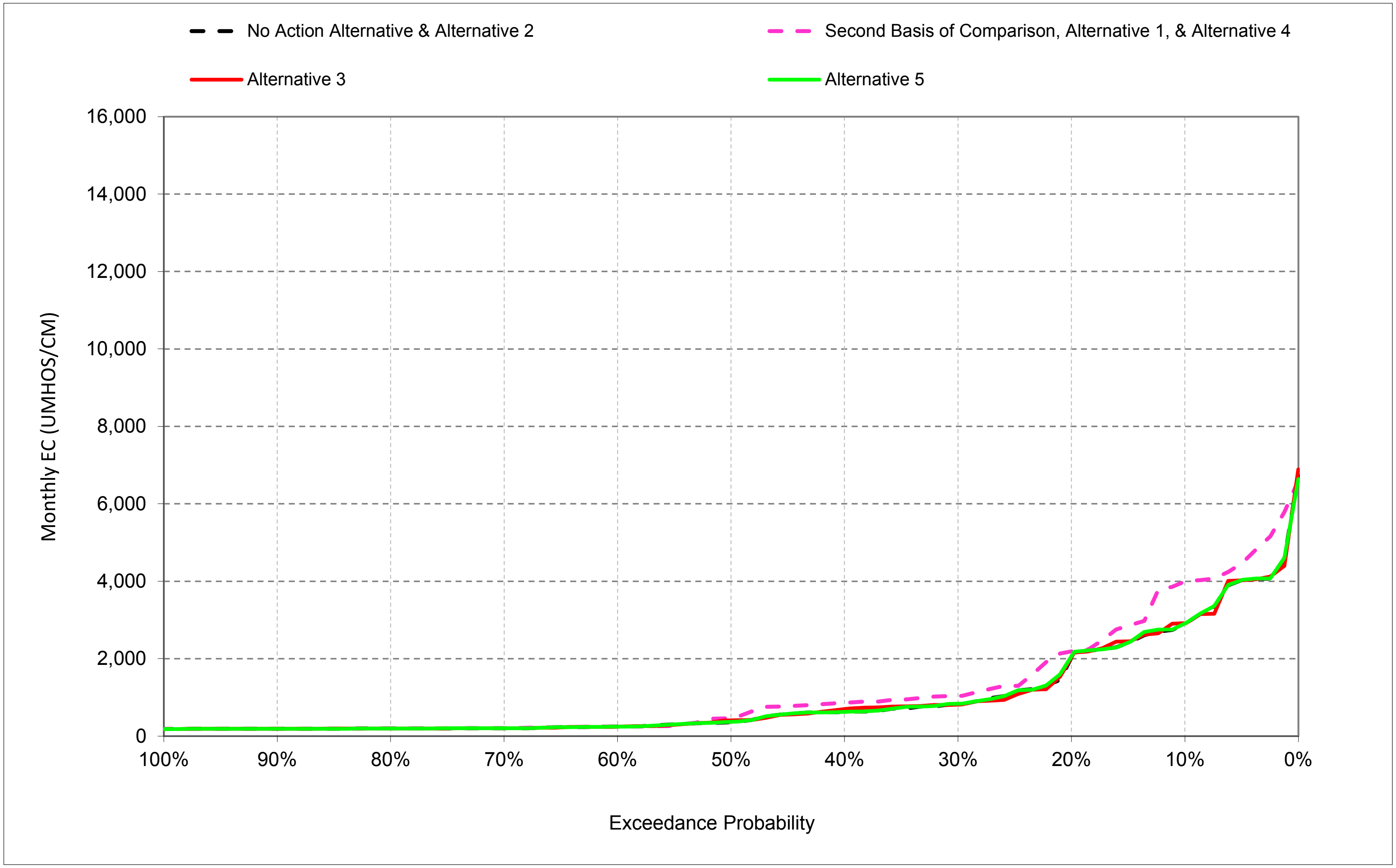
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.5. Chipps Island South Channel Salinity, Electrical Conductivity, February



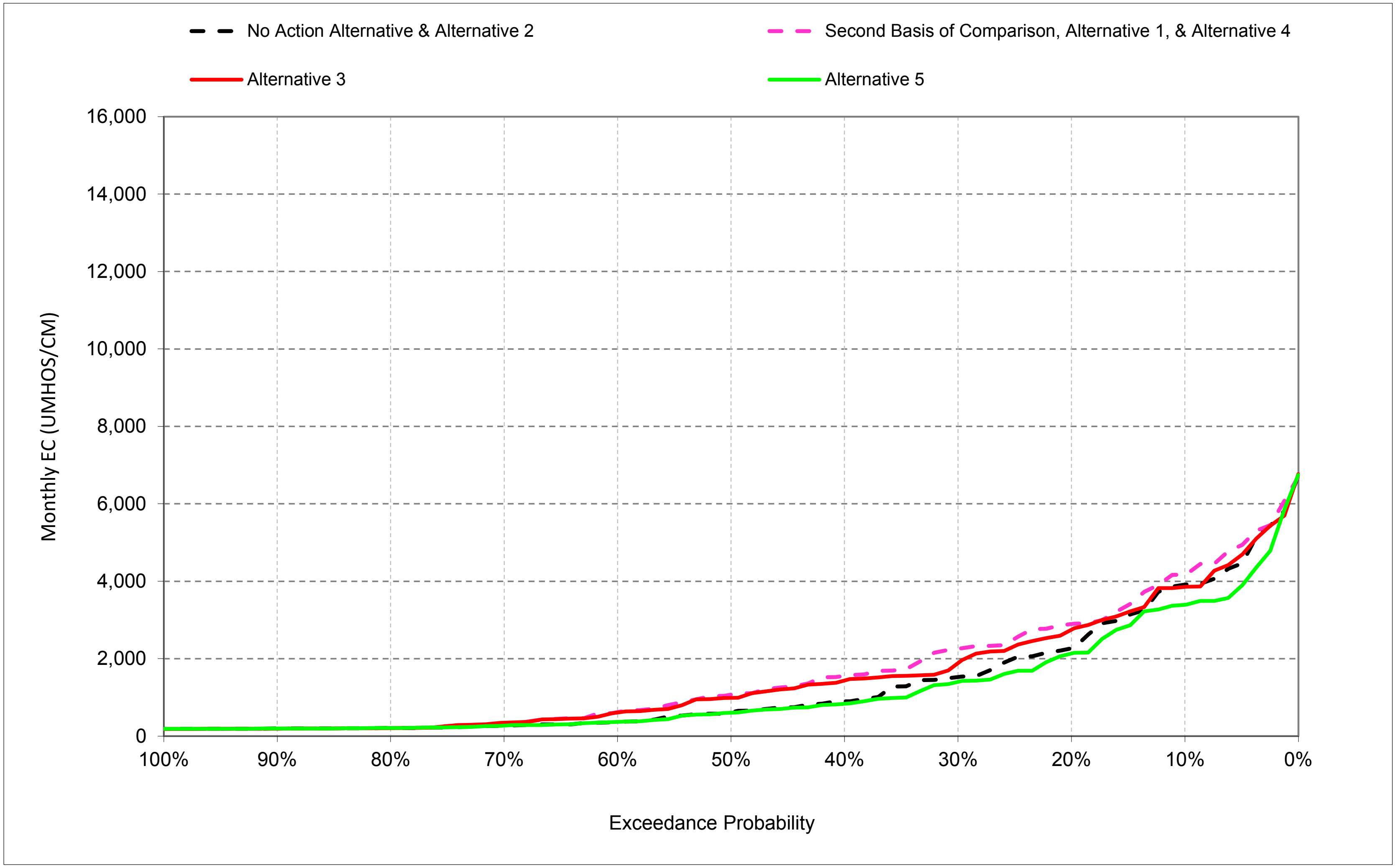
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.6. Chipps Island South Channel Salinity, Electrical Conductivity, March



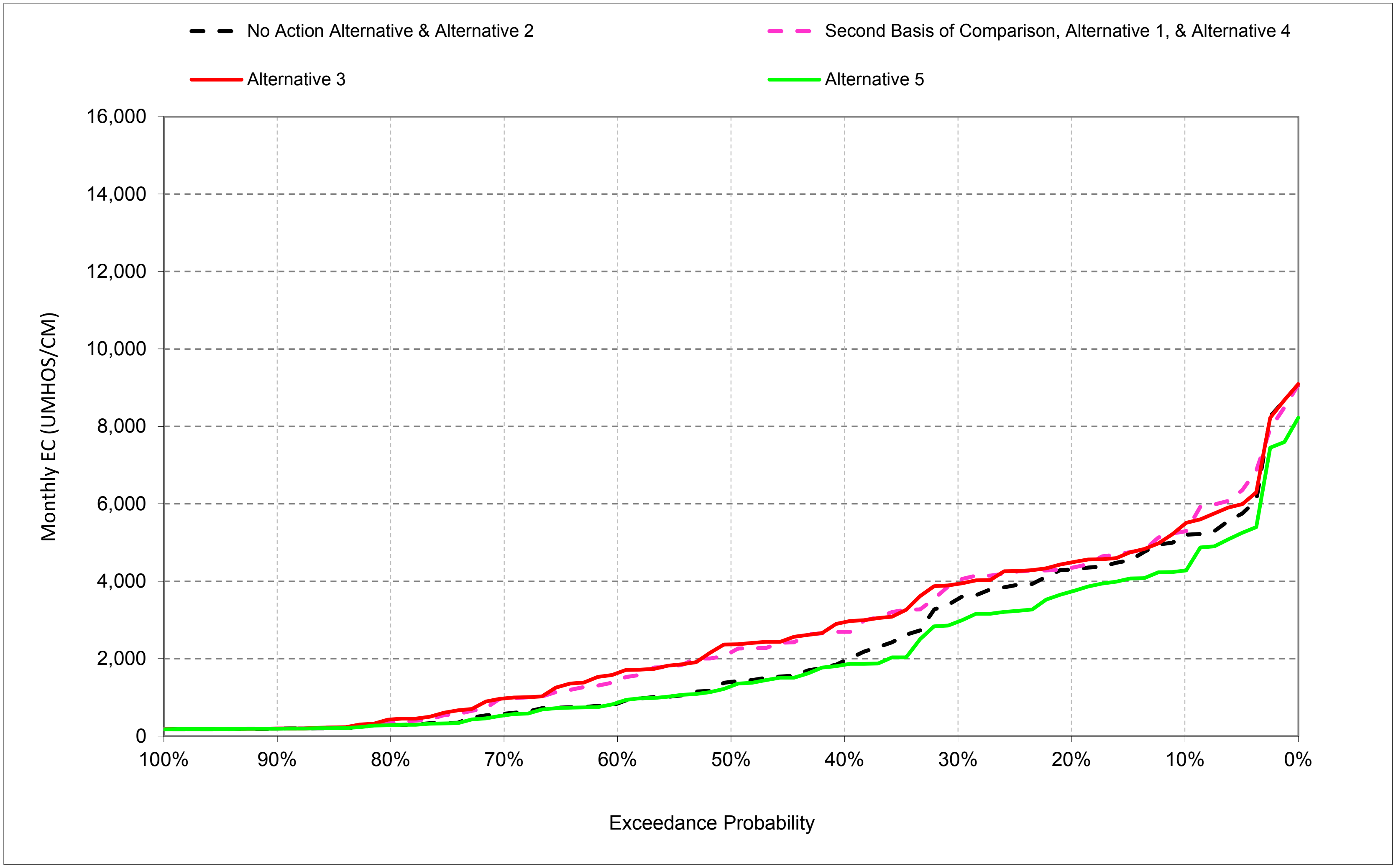
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.7. Chipps Island South Channel Salinity, Electrical Conductivity, April



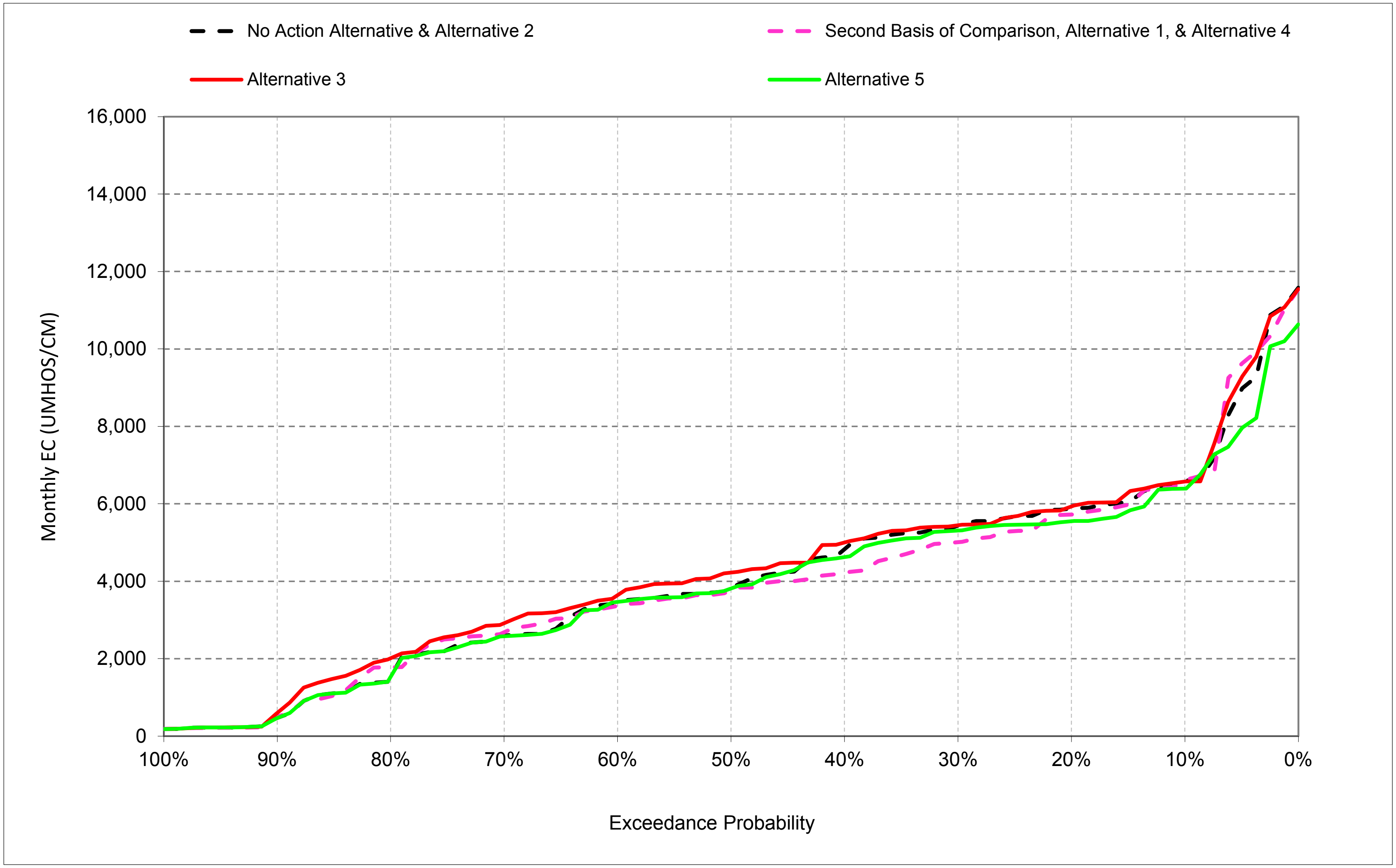
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.8. Chipps Island South Channel Salinity, Electrical Conductivity, May



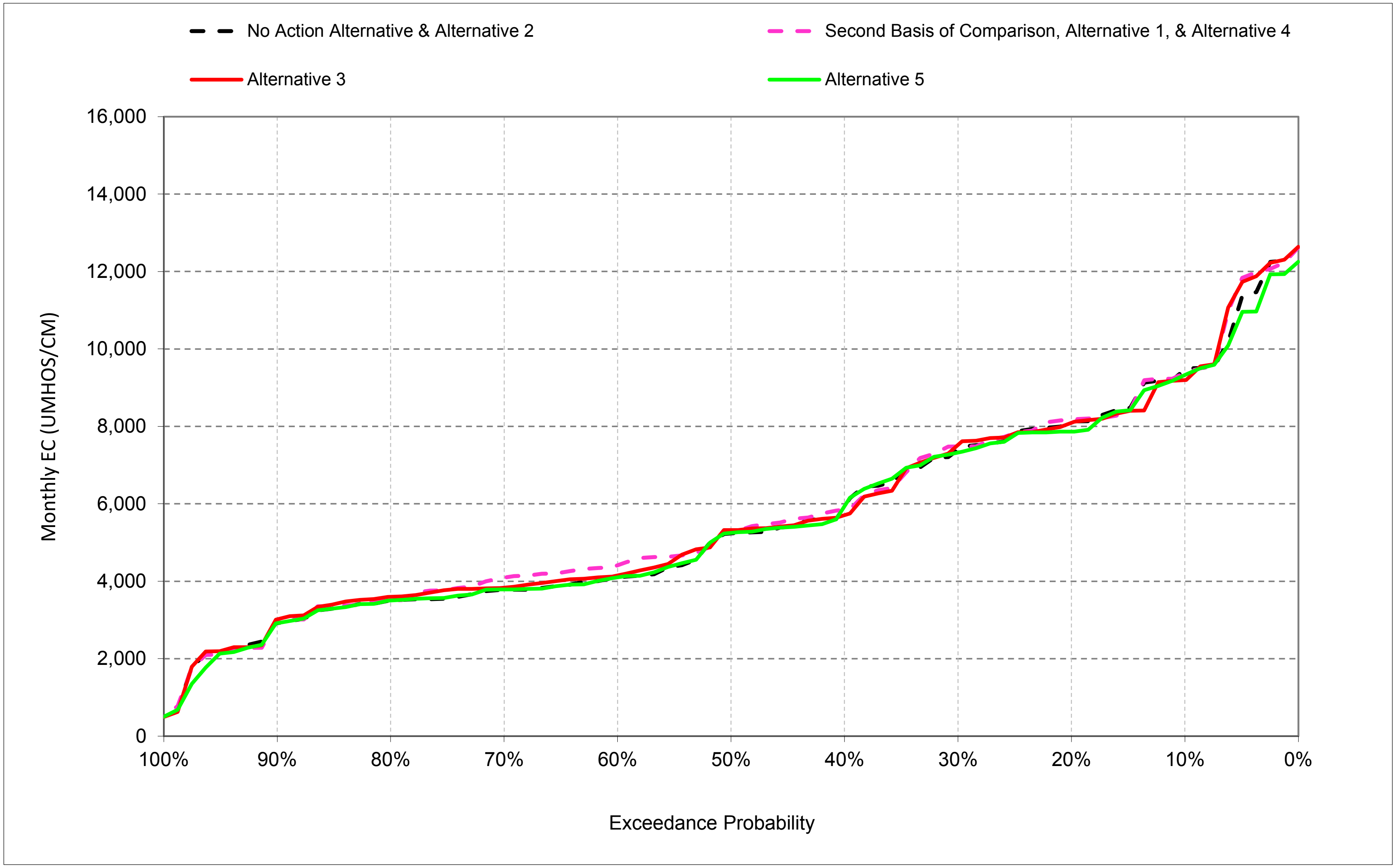
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.9. Chipps Island South Channel Salinity, Electrical Conductivity, June



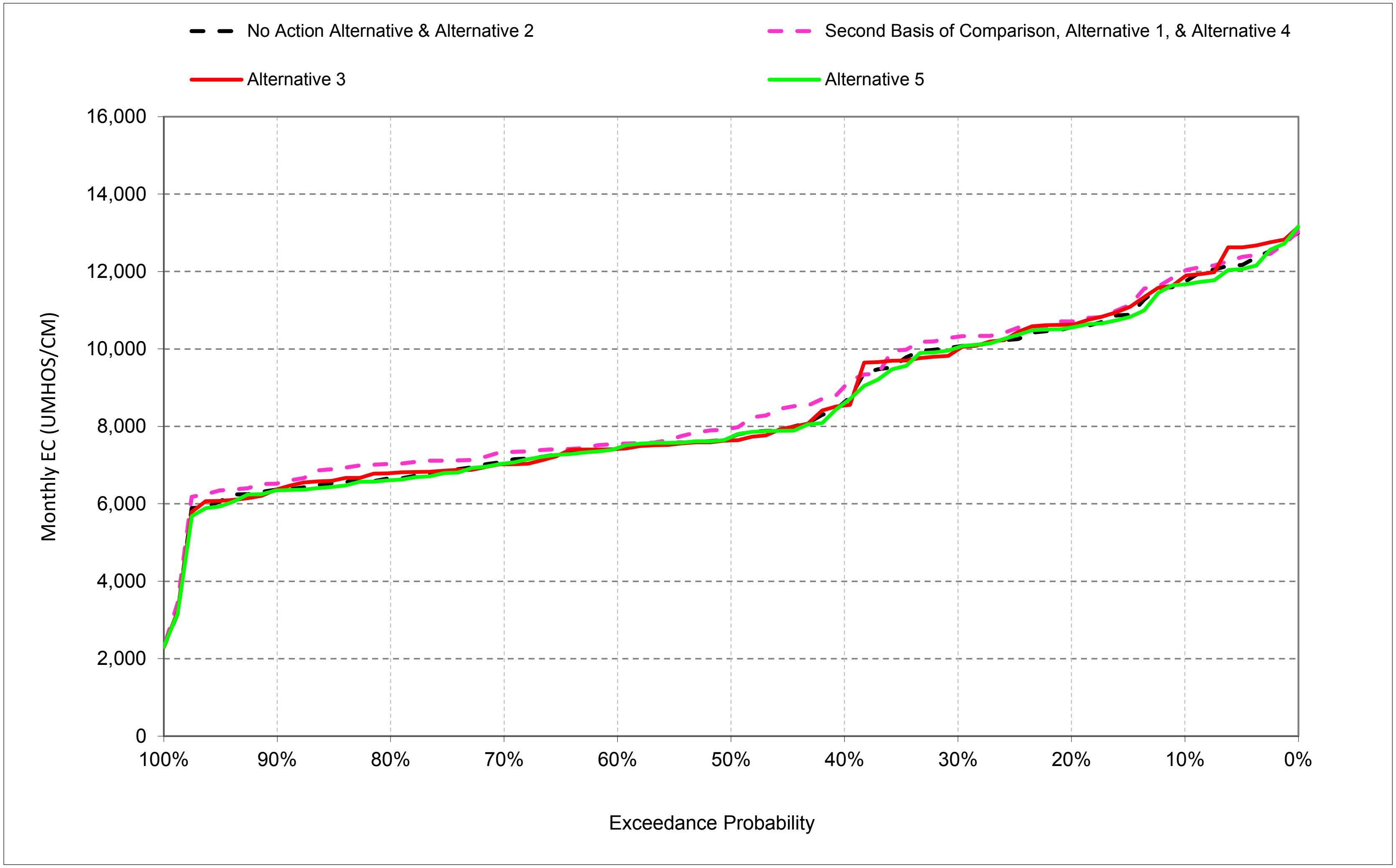
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.10. Chipps Island South Channel Salinity, Electrical Conductivity, July



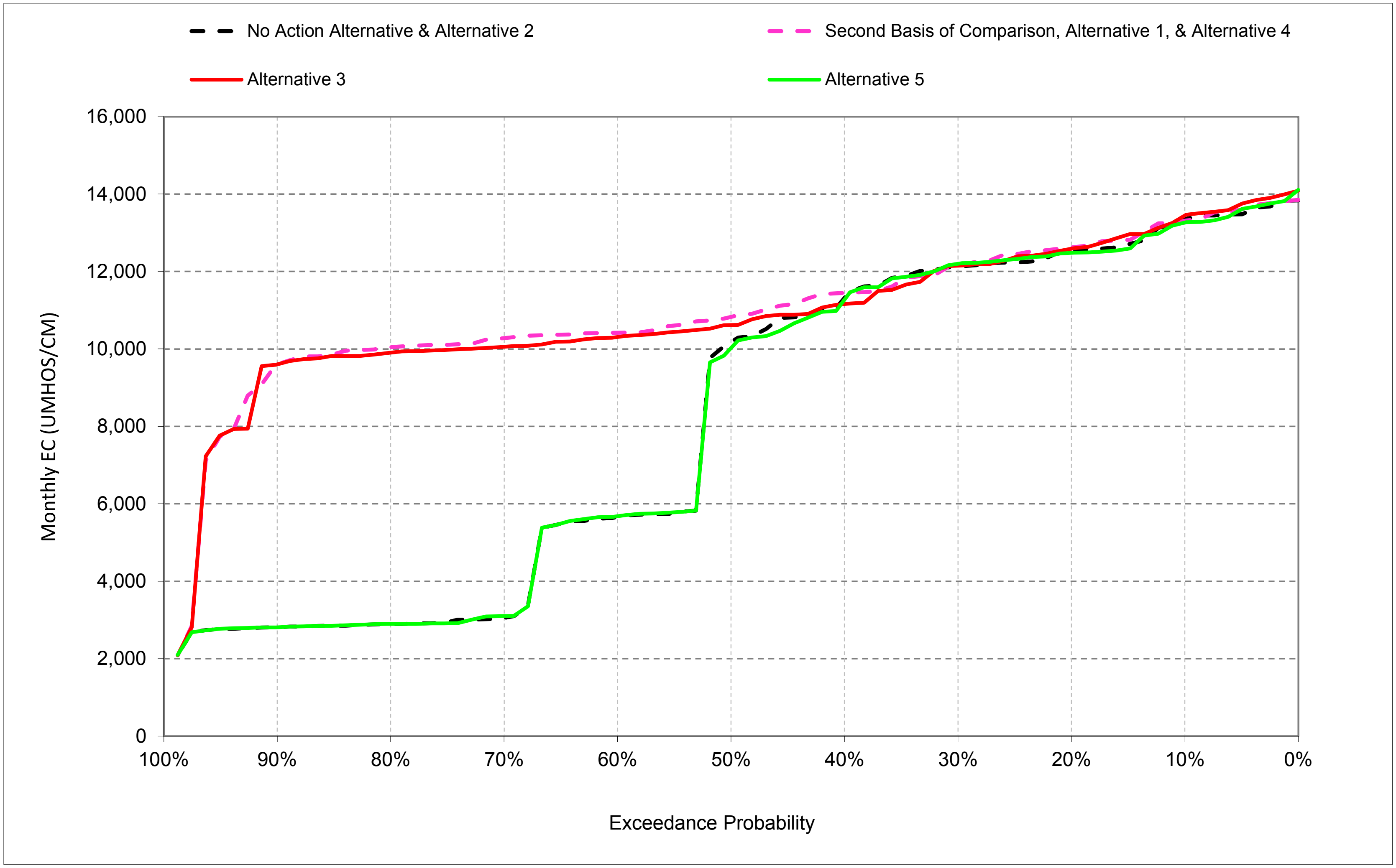
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.11. Chipps Island South Channel Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.10.2.12. Chipps Island South Channel Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.2.1. Chipps Island South Channel Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,923	15,215	12,996	8,123	3,597	2,905	3,911	5,182	6,581	9,468	11,739	13,345
20%	13,685	13,461	11,103	6,886	2,025	2,033	2,266	4,302	5,877	8,101	10,564	12,505
30%	13,564	12,987	7,576	5,487	1,288	822	1,527	3,543	5,435	7,397	10,064	12,129
40%	13,236	11,084	6,541	3,117	807	627	900	1,944	4,826	5,928	8,630	11,317
50%	11,999	5,844	5,602	2,446	485	363	615	1,401	3,825	5,234	7,725	10,183
60%	5,881	5,520	4,997	979	285	246	366	843	3,451	4,094	7,445	5,658
70%	2,777	2,822	2,163	302	217	202	268	578	2,595	3,779	7,097	3,174
80%	2,722	2,517	876	214	200	197	208	290	1,532	3,498	6,655	2,900
90%	2,559	2,419	339	194	191	191	195	192	467	2,918	6,365	2,827
Long Term												
Full Simulation Period[b]	8,838	7,926	6,004	3,373	1,395	1,026	1,357	2,217	4,062	5,689	8,497	8,174
Water Year Types[c]												
Wet (32%)	6,476	5,083	2,035	704	243	242	295	503	1,735	3,032	6,621	2,865
Above Normal (16%)	10,730	8,234	5,322	1,535	420	317	409	906	3,230	3,939	6,801	5,624
Below Normal (13%)	6,567	6,293	6,238	4,033	1,593	1,328	1,582	2,467	4,607	5,412	7,910	10,906
Dry (24%)	9,599	9,319	8,435	5,286	1,998	1,141	1,658	2,936	4,985	7,665	10,197	12,070
Critical (15%)	12,720	12,930	11,078	7,352	3,758	3,023	3,978	5,922	7,969	10,302	12,102	13,439

Alternative 1

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,822	15,055	13,036	10,462	5,408	3,992	4,173	5,289	6,601	9,386	12,021	13,311
20%	13,600	13,354	12,822	9,063	3,054	2,188	2,892	4,347	5,722	8,179	10,712	12,621
30%	13,238	13,048	12,042	7,692	2,046	1,037	2,257	4,000	5,007	7,483	10,317	12,155
40%	13,049	12,773	11,213	4,970	1,159	861	1,554	2,694	4,220	5,849	9,034	11,448
50%	12,567	12,393	9,721	3,411	706	481	1,071	2,164	3,763	5,305	7,948	10,828
60%	12,220	11,864	7,171	1,666	314	247	618	1,437	3,367	4,411	7,545	10,417
70%	11,963	11,605	3,644	404	216	205	313	971	2,682	4,094	7,332	10,280
80%	11,581	10,636	1,885	225	197	197	207	353	1,779	3,503	7,028	10,045
90%	10,260	5,768	690	195	191	190	194	193	497	2,963	6,529	9,606
Long Term												
Full Simulation Period[b]	12,243	11,302	7,959	4,361	1,816	1,228	1,640	2,577	3,974	5,799	8,713	10,985
Water Year Types[c]												
Wet (32%)	11,024	9,589	3,355	985	268	252	412	734	1,710	3,186	6,773	9,223
Above Normal (16%)	12,988	11,060	7,745	2,299	571	338	645	1,420	3,065	4,076	7,104	10,226
Below Normal (13%)	11,777	10,507	8,929	6,052	2,454	1,578	2,053	2,977	4,081	5,495	8,367	11,089
Dry (24%)	12,769	12,584	10,894	6,933	2,615	1,421	2,039	3,275	4,939	7,676	10,371	12,213
Critical (15%)	13,627	13,867	12,382	8,070	4,600	3,666	4,337	6,296	8,155	10,478	12,215	13,482

Alternative 1 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-101	-160	40	2,339	1,811	1,087	263	107	20	-81	282	-33
20%	-86	-108	1,719	2,177	1,029	155	625	44	-155	77	148	116
30%	-326	62	4,466	2,206	758	215	729	458	-428	86	253	25
40%	-187	1,689	4,672	1,853	352	234	655	750	-607	-79	404	131
50%	568	6,550	4,119	965	221	119	456	763	-62	70	223	645
60%	6,339	6,344	2,174	687	29	1	251	594	-84	316	101	4,759
70%	9,185	8,783	1,481	102	-1	2	45	393	87	316	235	7,106
80%	8,858	8,120	1,009	12	-3	0	-1	63	247	5	373	7,145
90%	7,701	3,349	351	1	0	-1	-1	1	30	45	164	6,778
Long Term												
Full Simulation Period[b]	3,404	3,375	1,954	988	421	202	283	361	-88	110	217	2,811
Water Year Types[c]												
Wet (32%)	4,547	4,506	1,321	282	25	10	117	231	-25	154	152	6,357
Above Normal (16%)	2,258	2,826	2,423	764	150	21	236	514	-165	137	303	4,602
Below Normal (13%)	5,210	4,214	2,690	2,019	861	250	471	510	-525	83	457	183
Dry (24%)	3,170	3,264	2,460	1,647	617	279	380	339	-46	11	174	142
Critical (15%)	907	936	1,303	717	842	643	359	375	186	176	113	43

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.2.2. Chipps Island South Channel Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,923	15,215	12,996	8,123	3,597	2,905	3,911	5,182	6,581	9,468	11,739	13,345
20%	13,685	13,461	11,103	6,886	2,025	2,033	2,266	4,302	5,877	8,101	10,564	12,505
30%	13,564	12,987	7,576	5,487	1,288	822	1,527	3,543	5,435	7,397	10,064	12,129
40%	13,236	11,084	6,541	3,117	807	627	900	1,944	4,826	5,928	8,630	11,317
50%	11,999	5,844	5,602	2,446	485	363	615	1,401	3,825	5,234	7,725	10,183
60%	5,881	5,520	4,997	979	285	246	366	843	3,451	4,094	7,445	5,658
70%	2,777	2,822	2,163	302	217	202	268	578	2,595	3,779	7,097	3,174
80%	2,722	2,517	876	214	200	197	208	290	1,532	3,498	6,655	2,900
90%	2,559	2,419	339	194	191	191	195	192	467	2,918	6,365	2,827
Long Term												
Full Simulation Period[b]	8,838	7,926	6,004	3,373	1,395	1,026	1,357	2,217	4,062	5,689	8,497	8,174
Water Year Types[c]												
Wet (32%)	6,476	5,083	2,035	704	243	242	295	503	1,735	3,032	6,621	2,865
Above Normal (16%)	10,730	8,234	5,322	1,535	420	317	409	906	3,230	3,939	6,801	5,624
Below Normal (13%)	6,567	6,293	6,238	4,033	1,593	1,328	1,582	2,467	4,607	5,412	7,910	10,906
Dry (24%)	9,599	9,319	8,435	5,286	1,998	1,141	1,658	2,936	4,985	7,665	10,197	12,070
Critical (15%)	12,720	12,930	11,078	7,352	3,758	3,023	3,978	5,922	7,969	10,302	12,102	13,439

Alternative 3

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,730	15,237	13,071	9,206	3,718	2,919	3,852	5,477	6,574	9,195	11,873	13,445
20%	13,719	13,525	12,644	7,905	2,012	2,036	2,747	4,486	5,930	8,091	10,630	12,592
30%	13,433	13,082	12,030	6,725	1,349	812	1,885	3,928	5,447	7,518	9,985	12,150
40%	12,988	12,893	10,924	3,530	788	697	1,436	2,943	5,001	5,709	8,541	11,162
50%	12,486	12,515	9,681	2,518	485	404	987	2,369	4,223	5,321	7,634	10,617
60%	12,175	11,960	7,215	1,088	256	244	610	1,630	3,643	4,149	7,418	10,306
70%	11,928	11,678	2,772	290	213	203	345	975	2,917	3,833	7,021	10,056
80%	11,595	10,530	1,839	217	198	196	207	429	2,012	3,600	6,794	9,902
90%	10,651	5,537	766	194	191	190	192	193	600	3,014	6,374	9,689
Long Term												
Full Simulation Period[b]	12,307	11,415	7,810	3,769	1,420	1,030	1,537	2,611	4,245	5,737	8,531	10,896
Water Year Types[c]												
Wet (32%)	10,964	9,659	3,229	797	245	257	412	809	1,960	3,118	6,581	9,170
Above Normal (16%)	13,230	11,164	7,397	1,780	395	309	608	1,488	3,440	4,019	6,911	10,145
Below Normal (13%)	11,958	10,730	8,952	4,752	1,640	1,329	1,906	3,045	4,843	5,408	7,856	10,669
Dry (24%)	12,730	12,672	10,816	5,938	1,993	1,139	1,860	3,323	5,116	7,603	10,258	12,181
Critical (15%)	13,833	14,027	12,129	7,848	3,919	3,028	4,101	6,151	8,068	10,466	12,252	13,519

Alternative 3 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-193	22	76	1,083	120	14	-59	295	-7	-273	133	100
20%	33	63	1,540	1,019	-13	3	481	184	53	-10	67	87
30%	-131	95	4,454	1,238	61	-11	358	385	12	121	-79	21
40%	-248	1,809	4,383	413	-19	69	536	999	174	-219	-89	-155
50%	487	6,671	4,079	71	0	41	372	968	399	87	-91	434
60%	6,295	6,440	2,218	109	-29	-2	244	787	192	55	-26	4,649
70%	9,151	8,856	609	-12	-4	1	77	397	322	54	-76	6,882
80%	8,873	8,013	963	4	-2	-1	-1	139	480	102	139	7,001
90%	8,092	3,117	427	0	0	-1	-3	1	133	96	9	6,862
Long Term												
Full Simulation Period[b]	3,469	3,489	1,806	396	25	4	179	395	183	48	34	2,723
Water Year Types[c]												
Wet (32%)	4,488	4,576	1,194	94	2	15	117	306	225	86	-41	6,304
Above Normal (16%)	2,500	2,929	2,075	245	-25	-8	199	582	210	80	111	4,521
Below Normal (13%)	5,390	4,437	2,714	719	47	1	324	578	237	-5	-54	-237
Dry (24%)	3,130	3,353	2,381	652	-5	-2	202	386	131	-61	61	111
Critical (15%)	1,113	1,097	1,051	495	161	5	122	229	99	163	150	80

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.2.3. Chipps Island South Channel Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,923	15,215	12,996	8,123	3,597	2,905	3,911	5,182	6,581	9,468	11,739	13,345
20%	13,685	13,461	11,103	6,886	2,025	2,033	2,266	4,302	5,877	8,101	10,564	12,505
30%	13,564	12,987	7,576	5,487	1,288	822	1,527	3,543	5,435	7,397	10,064	12,129
40%	13,236	11,084	6,541	3,117	807	627	900	1,944	4,826	5,928	8,630	11,317
50%	11,999	5,844	5,602	2,446	485	363	615	1,401	3,825	5,234	7,725	10,183
60%	5,881	5,520	4,997	979	285	246	366	843	3,451	4,094	7,445	5,658
70%	2,777	2,822	2,163	302	217	202	268	578	2,595	3,779	7,097	3,174
80%	2,722	2,517	876	214	200	197	208	290	1,532	3,498	6,655	2,900
90%	2,559	2,419	339	194	191	191	195	192	467	2,918	6,365	2,827
Long Term												
Full Simulation Period[b]	8,838	7,926	6,004	3,373	1,395	1,026	1,357	2,217	4,062	5,689	8,497	8,174
Water Year Types[c]												
Wet (32%)	6,476	5,083	2,035	704	243	242	295	503	1,735	3,032	6,621	2,865
Above Normal (16%)	10,730	8,234	5,322	1,535	420	317	409	906	3,230	3,939	6,801	5,624
Below Normal (13%)	6,567	6,293	6,238	4,033	1,593	1,328	1,582	2,467	4,607	5,412	7,910	10,906
Dry (24%)	9,599	9,319	8,435	5,286	1,998	1,141	1,658	2,936	4,985	7,665	10,197	12,070
Critical (15%)	12,720	12,930	11,078	7,352	3,758	3,023	3,978	5,922	7,969	10,302	12,102	13,439

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,965	15,101	13,021	8,114	3,598	2,909	3,394	4,277	6,390	9,327	11,666	13,266
20%	13,775	13,474	10,924	6,904	2,043	2,064	2,131	3,732	5,548	7,867	10,555	12,480
30%	13,580	12,987	7,592	5,487	1,285	835	1,403	2,952	5,310	7,323	10,041	12,201
40%	13,097	11,051	6,536	3,116	800	625	835	1,842	4,622	5,932	8,600	11,269
50%	11,913	5,812	5,619	2,452	485	369	604	1,289	3,811	5,250	7,720	10,026
60%	5,878	5,390	4,995	976	284	246	366	866	3,466	4,101	7,439	5,679
70%	2,779	2,821	2,171	295	217	202	269	537	2,579	3,787	7,040	3,181
80%	2,726	2,515	881	214	200	197	208	280	1,528	3,500	6,611	2,898
90%	2,567	2,384	338	194	191	191	195	192	468	2,917	6,348	2,831
Long Term												
Full Simulation Period[b]	8,829	7,898	6,004	3,399	1,418	1,030	1,231	1,978	3,919	5,633	8,445	8,159
Water Year Types[c]												
Wet (32%)	6,473	5,103	2,038	703	243	242	292	478	1,724	2,999	6,563	2,867
Above Normal (16%)	10,711	8,063	5,264	1,532	420	317	407	880	3,211	3,938	6,799	5,641
Below Normal (13%)	6,579	6,299	6,245	4,039	1,594	1,329	1,435	2,222	4,523	5,392	7,863	10,831
Dry (24%)	9,589	9,298	8,464	5,317	2,007	1,145	1,435	2,575	4,806	7,615	10,148	12,055
Critical (15%)	12,691	12,908	11,082	7,477	3,899	3,045	3,632	5,196	7,408	10,096	11,997	13,410

Alternative 5 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	42	-114	26	-9	1	4	-516	-905	-191	-141	-73	-78
20%	90	13	-179	18	18	31	-135	-570	-329	-235	-9	-25
30%	16	0	16	0	-2	13	-124	-591	-125	-74	-23	72
40%	-140	-33	-5	-1	-7	-2	-65	-101	-205	4	-30	-48
50%	-86	-32	17	6	0	7	-11	-112	-13	15	-5	-157
60%	-3	-130	-2	-3	0	0	0	23	15	6	-5	21
70%	2	-1	8	-7	0	0	1	-42	-16	8	-58	7
80%	3	-2	5	0	0	0	1	-10	-4	2	-44	-3
90%	9	-36	-1	0	0	0	0	0	1	0	-16	4
Long Term												
Full Simulation Period[b]	-9	-28	0	26	23	4	-126	-239	-144	-56	-52	-15
Water Year Types[c]												
Wet (32%)	-3	20	3	0	0	0	-3	-25	-11	-33	-58	2
Above Normal (16%)	-19	-171	-58	-3	0	0	-1	-27	-19	-1	-2	18
Below Normal (13%)	12	6	6	7	0	1	-147	-245	-83	-20	-47	-75
Dry (24%)	-11	-22	29	31	10	3	-223	-361	-179	-49	-49	-15
Critical (15%)	-29	-22	3	125	141	22	-346	-725	-561	-207	-105	-29

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.2.4. Chipps Island South Channel Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,822	15,055	13,036	10,462	5,408	3,992	4,173	5,289	6,601	9,386	12,021	13,311
20%	13,600	13,354	12,822	9,063	3,054	2,188	2,892	4,347	5,722	8,179	10,712	12,621
30%	13,238	13,048	12,042	7,692	2,046	1,037	2,257	4,000	5,007	7,483	10,317	12,155
40%	13,049	12,773	11,213	4,970	1,159	861	1,554	2,694	4,220	5,849	9,034	11,448
50%	12,567	12,393	9,721	3,411	706	481	1,071	2,164	3,763	5,305	7,948	10,828
60%	12,220	11,864	7,171	1,666	314	247	618	1,437	3,367	4,411	7,545	10,417
70%	11,963	11,605	3,644	404	216	205	313	971	2,682	4,094	7,332	10,280
80%	11,581	10,636	1,885	225	197	197	207	353	1,779	3,503	7,028	10,045
90%	10,260	5,768	690	195	191	190	194	193	497	2,963	6,529	9,606
Long Term												
Full Simulation Period[b]	12,243	11,302	7,959	4,361	1,816	1,228	1,640	2,577	3,974	5,799	8,713	10,985
Water Year Types[c]												
Wet (32%)	11,024	9,589	3,355	985	268	252	412	734	1,710	3,186	6,773	9,223
Above Normal (16%)	12,988	11,060	7,745	2,299	571	338	645	1,420	3,065	4,076	7,104	10,226
Below Normal (13%)	11,777	10,507	8,929	6,052	2,454	1,578	2,053	2,977	4,081	5,495	8,367	11,089
Dry (24%)	12,769	12,584	10,894	6,933	2,615	1,421	2,039	3,275	4,939	7,676	10,371	12,213
Critical (15%)	13,627	13,867	12,382	8,070	4,600	3,666	4,337	6,296	8,155	10,478	12,215	13,482

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,923	15,215	12,996	8,123	3,597	2,905	3,911	5,182	6,581	9,468	11,739	13,345
20%	13,685	13,461	11,103	6,886	2,025	2,033	2,266	4,302	5,877	8,101	10,564	12,505
30%	13,564	12,987	7,576	5,487	1,288	822	1,527	3,543	5,435	7,397	10,064	12,129
40%	13,236	11,084	6,541	3,117	807	627	900	1,944	4,826	5,928	8,630	11,317
50%	11,999	5,844	5,602	2,446	485	363	615	1,401	3,825	5,234	7,725	10,183
60%	5,881	5,520	4,997	979	285	246	366	843	3,451	4,094	7,445	5,658
70%	2,777	2,822	2,163	302	217	202	268	578	2,595	3,779	7,097	3,174
80%	2,722	2,517	876	214	200	197	208	290	1,532	3,498	6,655	2,900
90%	2,559	2,419	339	194	191	191	195	192	467	2,918	6,365	2,827
Long Term												
Full Simulation Period[b]	8,838	7,926	6,004	3,373	1,395	1,026	1,357	2,217	4,062	5,689	8,497	8,174
Water Year Types[c]												
Wet (32%)	6,476	5,083	2,035	704	243	242	295	503	1,735	3,032	6,621	2,865
Above Normal (16%)	10,730	8,234	5,322	1,535	420	317	409	906	3,230	3,939	6,801	5,624
Below Normal (13%)	6,567	6,293	6,238	4,033	1,593	1,328	1,582	2,467	4,607	5,412	7,910	10,906
Dry (24%)	9,599	9,319	8,435	5,286	1,998	1,141	1,658	2,936	4,985	7,665	10,197	12,070
Critical (15%)	12,720	12,930	11,078	7,352	3,758	3,023	3,978	5,922	7,969	10,302	12,102	13,439

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	101	160	-40	-2,339	-1,811	-1,087	-263	-107	-20	81	-282	33
20%	86	108	-1,719	-2,177	-1,029	-155	-625	-44	155	-77	-148	-116
30%	326	-62	-4,466	-2,206	-758	-215	-729	-458	428	-86	-253	-25
40%	187	-1,689	-4,672	-1,853	-352	-234	-655	-750	607	79	-404	-131
50%	-568	-6,550	-4,119	-965	-221	-119	-456	-763	62	-70	-223	-645
60%	-6,339	-6,344	-2,174	-687	-29	-1	-251	-594	84	-316	-101	-4,759
70%	-9,185	-8,783	-1,481	-102	1	-2	-45	-393	-87	-316	-235	-7,106
80%	-8,858	-8,120	-1,009	-12	3	0	1	-63	-247	-5	-373	-7,145
90%	-7,701	-3,349	-351	-1	0	1	1	-1	-30	-45	-164	-6,778
Long Term												
Full Simulation Period[b]	-3,404	-3,375	-1,954	-988	-421	-202	-283	-361	88	-110	-217	-2,811
Water Year Types[c]												
Wet (32%)	-4,547	-4,506	-1,321	-282	-25	-10	-117	-231	25	-154	-152	-6,357
Above Normal (16%)	-2,258	-2,826	-2,423	-764	-150	-21	-236	-514	165	-137	-303	-4,602
Below Normal (13%)	-5,210	-4,214	-2,690	-2,019	-861	-250	-471	-510	525	-83	-457	-183
Dry (24%)	-3,170	-3,264	-2,460	-1,647	-617	-279	-380	-339	46	-11	-174	-142
Critical (15%)	-907	-936	-1,303	-717	-842	-643	-359	-375	-186	-176	-113	-43

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.2.5. Chipps Island South Channel Salinity, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,822	15,055	13,036	10,462	5,408	3,992	4,173	5,289	6,601	9,386	12,021	13,311
20%	13,600	13,354	12,822	9,063	3,054	2,188	2,892	4,347	5,722	8,179	10,712	12,621
30%	13,238	13,048	12,042	7,692	2,046	1,037	2,257	4,000	5,007	7,483	10,317	12,155
40%	13,049	12,773	11,213	4,970	1,159	861	1,554	2,694	4,220	5,849	9,034	11,448
50%	12,567	12,393	9,721	3,411	706	481	1,071	2,164	3,763	5,305	7,948	10,828
60%	12,220	11,864	7,171	1,666	314	247	618	1,437	3,367	4,411	7,545	10,417
70%	11,963	11,605	3,644	404	216	205	313	971	2,682	4,094	7,332	10,280
80%	11,581	10,636	1,885	225	197	197	207	353	1,779	3,503	7,028	10,045
90%	10,260	5,768	690	195	191	190	194	193	497	2,963	6,529	9,606
Long Term												
Full Simulation Period[b]	12,243	11,302	7,959	4,361	1,816	1,228	1,640	2,577	3,974	5,799	8,713	10,985
Water Year Types[c]												
Wet (32%)	11,024	9,589	3,355	985	268	252	412	734	1,710	3,186	6,773	9,223
Above Normal (16%)	12,988	11,060	7,745	2,299	571	338	645	1,420	3,065	4,076	7,104	10,226
Below Normal (13%)	11,777	10,507	8,929	6,052	2,454	1,578	2,053	2,977	4,081	5,495	8,367	11,089
Dry (24%)	12,769	12,584	10,894	6,933	2,615	1,421	2,039	3,275	4,939	7,676	10,371	12,213
Critical (15%)	13,627	13,867	12,382	8,070	4,600	3,666	4,337	6,296	8,155	10,478	12,215	13,482

Alternative 3

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,730	15,237	13,071	9,206	3,718	2,919	3,852	5,477	6,574	9,195	11,873	13,445
20%	13,719	13,525	12,644	7,905	2,012	2,036	2,747	4,486	5,930	8,091	10,630	12,592
30%	13,433	13,082	12,030	6,725	1,349	812	1,885	3,928	5,447	7,518	9,985	12,150
40%	12,988	12,893	10,924	3,530	788	697	1,436	2,943	5,001	5,709	8,541	11,162
50%	12,486	12,515	9,681	2,518	485	404	987	2,369	4,223	5,321	7,634	10,617
60%	12,175	11,960	7,215	1,088	256	244	610	1,630	3,643	4,149	7,418	10,306
70%	11,928	11,678	2,772	290	213	203	345	975	2,917	3,833	7,021	10,056
80%	11,595	10,530	1,839	217	198	196	207	429	2,012	3,600	6,794	9,902
90%	10,651	5,537	766	194	191	190	192	193	600	3,014	6,374	9,689
Long Term												
Full Simulation Period[b]	12,307	11,415	7,810	3,769	1,420	1,030	1,537	2,611	4,245	5,737	8,531	10,896
Water Year Types[c]												
Wet (32%)	10,964	9,659	3,229	797	245	257	412	809	1,960	3,118	6,581	9,170
Above Normal (16%)	13,230	11,164	7,397	1,780	395	309	608	1,488	3,440	4,019	6,911	10,145
Below Normal (13%)	11,958	10,730	8,952	4,752	1,640	1,329	1,906	3,045	4,843	5,408	7,856	10,669
Dry (24%)	12,730	12,672	10,816	5,938	1,993	1,139	1,860	3,323	5,116	7,603	10,258	12,181
Critical (15%)	13,833	14,027	12,129	7,848	3,919	3,028	4,101	6,151	8,068	10,466	12,252	13,519

Alternative 3 minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-93	182	36	-1,256	-1,690	-1,073	-322	188	-27	-192	-148	133
20%	119	171	-178	-1,158	-1,042	-152	-145	139	208	-87	-82	-29
30%	195	34	-12	-968	-697	-226	-372	-72	439	35	-331	-4
40%	-61	120	-289	-1,440	-371	-165	-119	249	781	-140	-493	-286
50%	-81	121	-40	-894	-221	-77	-84	205	460	17	-313	-211
60%	-45	96	44	-578	-58	-3	-7	193	276	-261	-127	-111
70%	-34	74	-872	-113	-3	-1	32	4	235	-262	-312	-224
80%	15	-107	-47	-8	1	-1	-1	76	233	97	-234	-144
90%	391	-232	76	-1	1	0	-1	0	103	51	-155	83
Long Term												
Full Simulation Period[b]	64	114	-148	-592	-396	-198	-104	34	271	-62	-182	-88
Water Year Types[c]												
Wet (32%)	-60	70	-126	-188	-23	5	0	75	250	-68	-193	-53
Above Normal (16%)	242	104	-348	-519	-176	-28	-37	68	375	-56	-192	-81
Below Normal (13%)	180	223	24	-1,300	-814	-249	-147	68	762	-88	-511	-420
Dry (24%)	-39	89	-78	-995	-622	-282	-178	48	178	-72	-113	-31
Critical (15%)	206	160	-253	-222	-681	-638	-237	-146	-87	-13	36	37

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.10.2.6. Chipps Island South Channel Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,822	15,055	13,036	10,462	5,408	3,992	4,173	5,289	6,601	9,386	12,021	13,311
20%	13,600	13,354	12,822	9,063	3,054	2,188	2,892	4,347	5,722	8,179	10,712	12,621
30%	13,238	13,048	12,042	7,692	2,046	1,037	2,257	4,000	5,007	7,483	10,317	12,155
40%	13,049	12,773	11,213	4,970	1,159	861	1,554	2,694	4,220	5,849	9,034	11,448
50%	12,567	12,393	9,721	3,411	706	481	1,071	2,164	3,763	5,305	7,948	10,828
60%	12,220	11,864	7,171	1,666	314	247	618	1,437	3,367	4,411	7,545	10,417
70%	11,963	11,605	3,644	404	216	205	313	971	2,682	4,094	7,332	10,280
80%	11,581	10,636	1,885	225	197	197	207	353	1,779	3,503	7,028	10,045
90%	10,260	5,768	690	195	191	190	194	193	497	2,963	6,529	9,606
Long Term												
Full Simulation Period[b]	12,243	11,302	7,959	4,361	1,816	1,228	1,640	2,577	3,974	5,799	8,713	10,985
Water Year Types[c]												
Wet (32%)	11,024	9,589	3,355	985	268	252	412	734	1,710	3,186	6,773	9,223
Above Normal (16%)	12,988	11,060	7,745	2,299	571	338	645	1,420	3,065	4,076	7,104	10,226
Below Normal (13%)	11,777	10,507	8,929	6,052	2,454	1,578	2,053	2,977	4,081	5,495	8,367	11,089
Dry (24%)	12,769	12,584	10,894	6,933	2,615	1,421	2,039	3,275	4,939	7,676	10,371	12,213
Critical (15%)	13,627	13,867	12,382	8,070	4,600	3,666	4,337	6,296	8,155	10,478	12,215	13,482

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	14,965	15,101	13,021	8,114	3,598	2,909	3,394	4,277	6,390	9,327	11,666	13,266
20%	13,775	13,474	10,924	6,904	2,043	2,064	2,131	3,732	5,548	7,867	10,555	12,480
30%	13,580	12,987	7,592	5,487	1,285	835	1,403	2,952	5,310	7,323	10,041	12,201
40%	13,097	11,051	6,536	3,116	800	625	835	1,842	4,622	5,932	8,600	11,269
50%	11,913	5,812	5,619	2,452	485	369	604	1,289	3,811	5,250	7,720	10,026
60%	5,878	5,390	4,995	976	284	246	366	866	3,466	4,101	7,439	5,679
70%	2,779	2,821	2,171	295	217	202	269	537	2,579	3,787	7,040	3,181
80%	2,726	2,515	881	214	200	197	208	280	1,528	3,500	6,611	2,898
90%	2,567	2,384	338	194	191	191	195	192	468	2,917	6,348	2,831
Long Term												
Full Simulation Period[b]	8,829	7,898	6,004	3,399	1,418	1,030	1,231	1,978	3,919	5,633	8,445	8,159
Water Year Types[c]												
Wet (32%)	6,473	5,103	2,038	703	243	242	292	478	1,724	2,999	6,563	2,867
Above Normal (16%)	10,711	8,063	5,264	1,532	420	317	407	880	3,211	3,938	6,799	5,641
Below Normal (13%)	6,579	6,299	6,245	4,039	1,594	1,329	1,435	2,222	4,523	5,392	7,863	10,831
Dry (24%)	9,589	9,298	8,464	5,317	2,007	1,145	1,435	2,575	4,806	7,615	10,148	12,055
Critical (15%)	12,691	12,908	11,082	7,477	3,899	3,045	3,632	5,196	7,408	10,096	11,997	13,410

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	143	46	-15	-2,348	-1,810	-1,083	-779	-1,012	-211	-60	-355	-45
20%	176	120	-1,898	-2,159	-1,011	-124	-761	-615	-174	-312	-157	-141
30%	342	-61	-4,450	-2,206	-760	-202	-853	-1,048	303	-160	-275	47
40%	48	-1,722	-4,677	-1,854	-359	-236	-720	-852	402	83	-434	-178
50%	-654	-6,581	-4,103	-960	-221	-112	-467	-875	48	-55	-227	-802
60%	-6,342	-6,474	-2,176	-690	-30	-2	-251	-571	98	-310	-106	-4,738
70%	-9,184	-8,783	-1,473	-108	2	-2	-43	-435	-103	-307	-293	-7,099
80%	-8,855	-8,121	-1,004	-11	3	0	1	-73	-251	-3	-417	-7,148
90%	-7,693	-3,385	-352	-1	1	1	1	-1	-29	-45	-181	-6,774
Long Term												
Full Simulation Period[b]	-3,414	-3,404	-1,954	-962	-398	-198	-409	-600	-55	-166	-269	-2,825
Water Year Types[c]												
Wet (32%)	-4,550	-4,486	-1,318	-282	-25	-10	-120	-256	13	-187	-210	-6,355
Above Normal (16%)	-2,277	-2,997	-2,481	-767	-150	-20	-238	-540	146	-138	-305	-4,585
Below Normal (13%)	-5,198	-4,208	-2,684	-2,012	-861	-250	-618	-755	442	-103	-504	-258
Dry (24%)	-3,180	-3,286	-2,430	-1,616	-607	-276	-604	-700	-132	-61	-223	-157
Critical (15%)	-936	-958	-1,300	-593	-701	-621	-705	-1,100	-747	-383	-218	-72

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

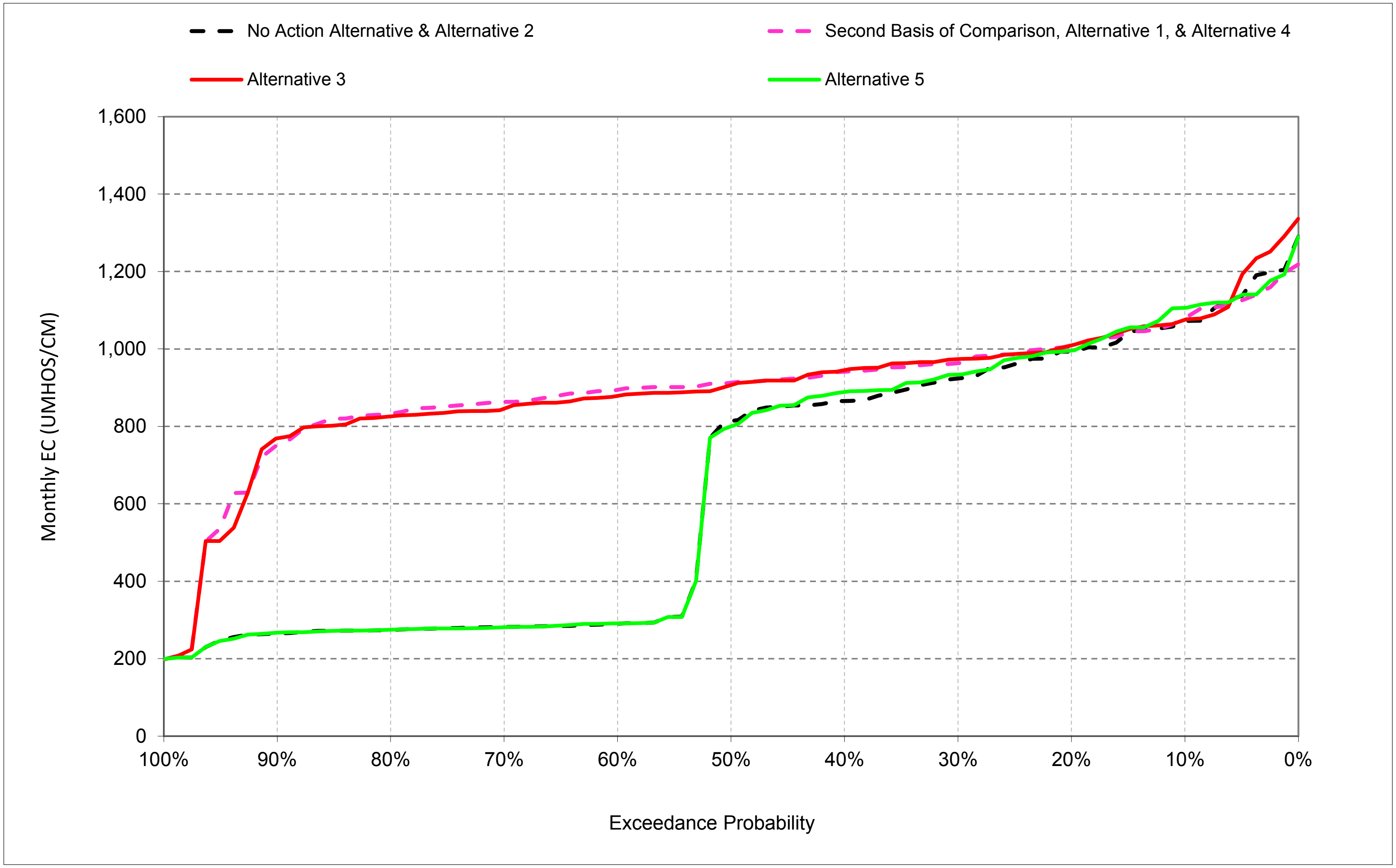
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

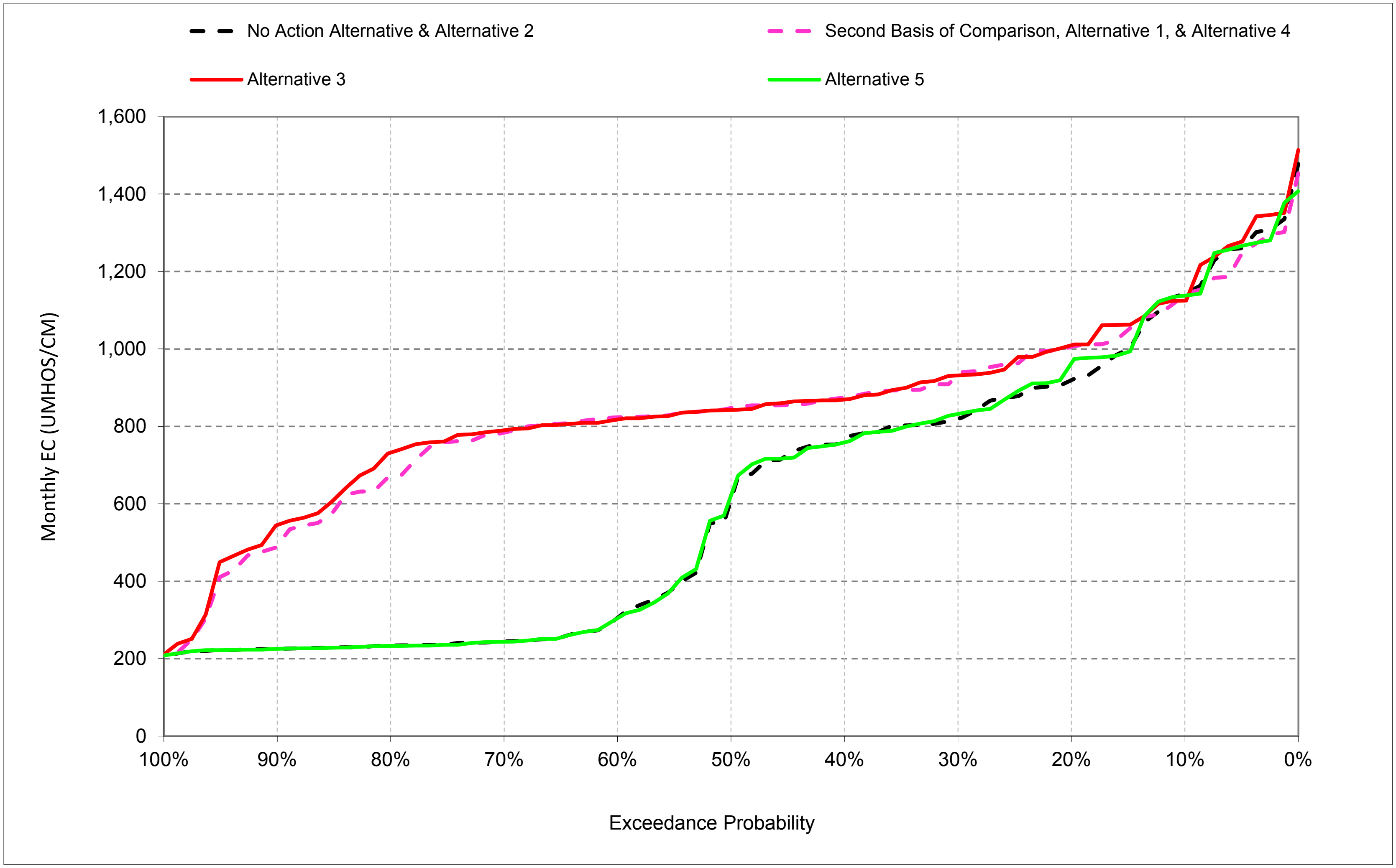
B.11 Old River at Rock Slough Salinity

Figure 6E.B.11.1. Old River at Rock Slough Salinity, Electrical Conductivity, October



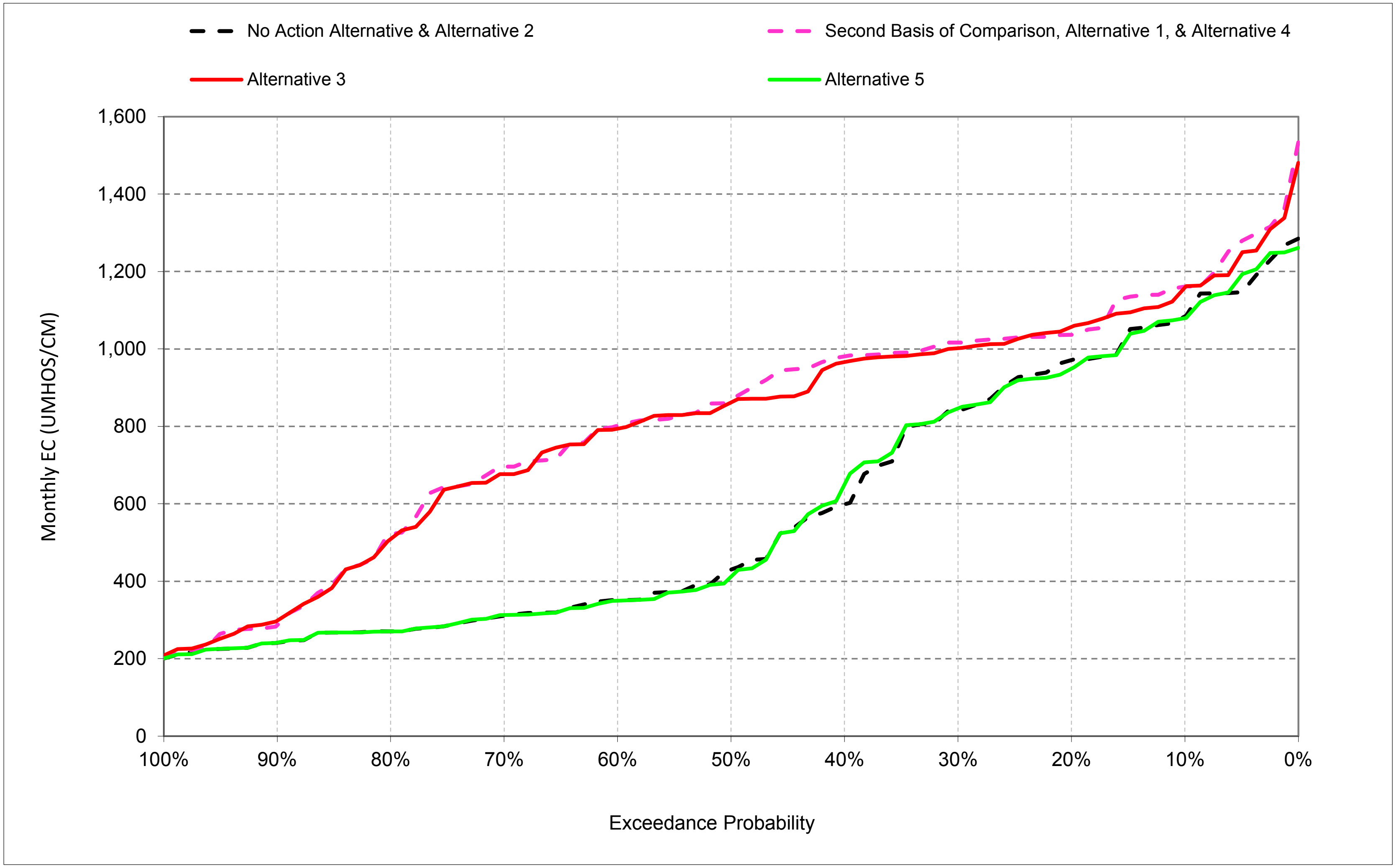
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.2. Old River at Rock Slough Salinity, Electrical Conductivity, November



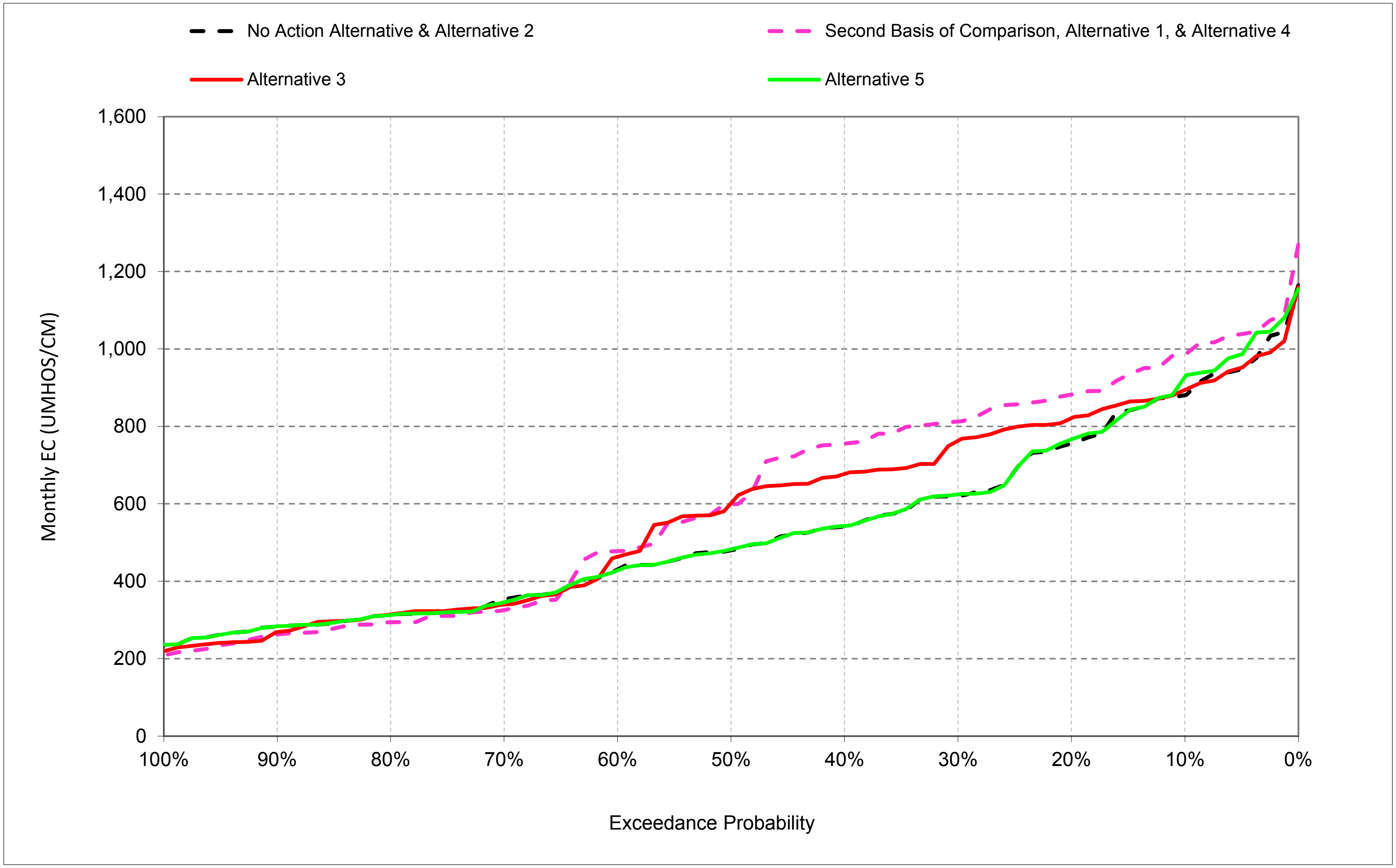
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.3. Old River at Rock Slough Salinity, Electrical Conductivity, December



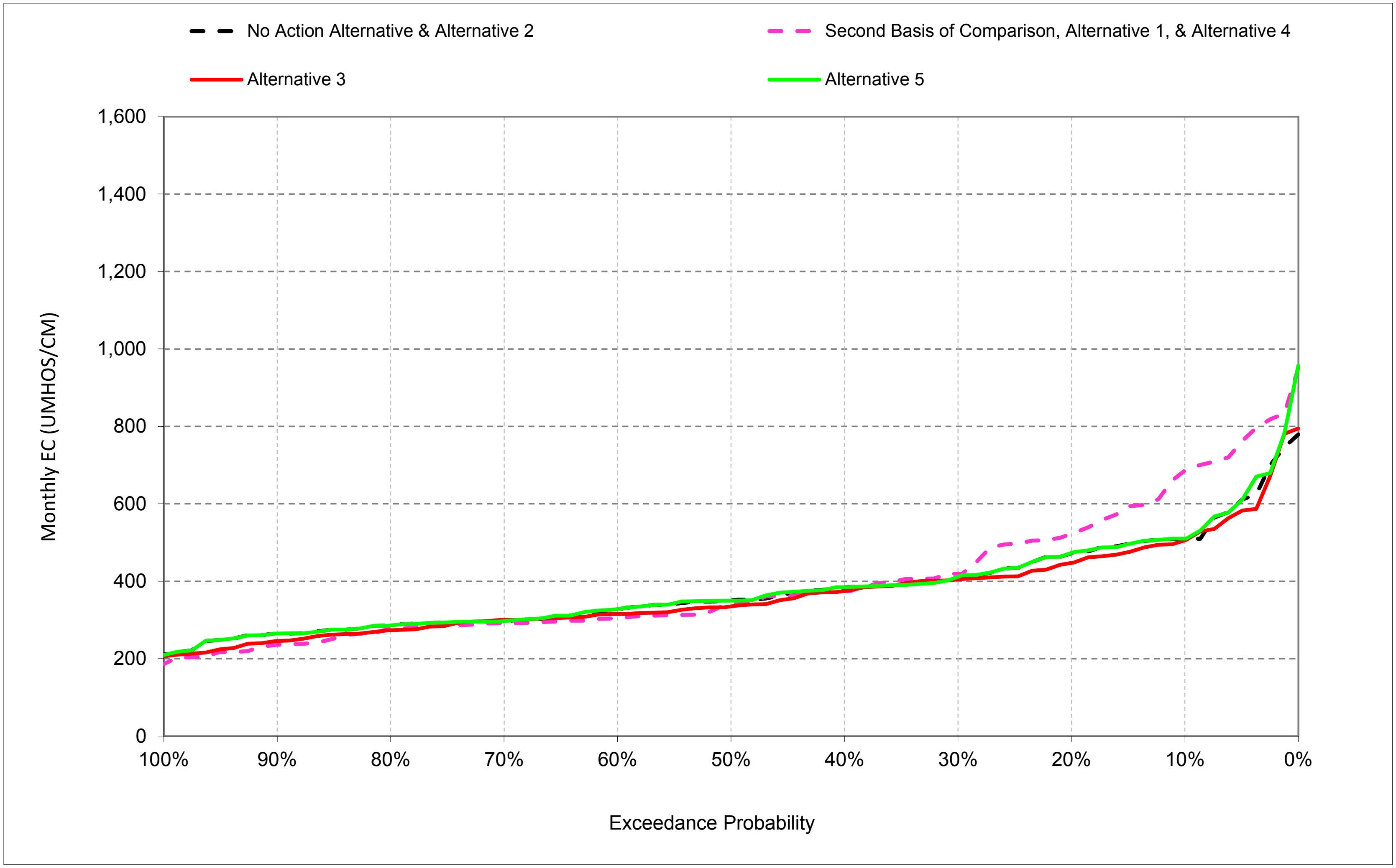
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.4. Old River at Rock Slough Salinity, Electrical Conductivity, January



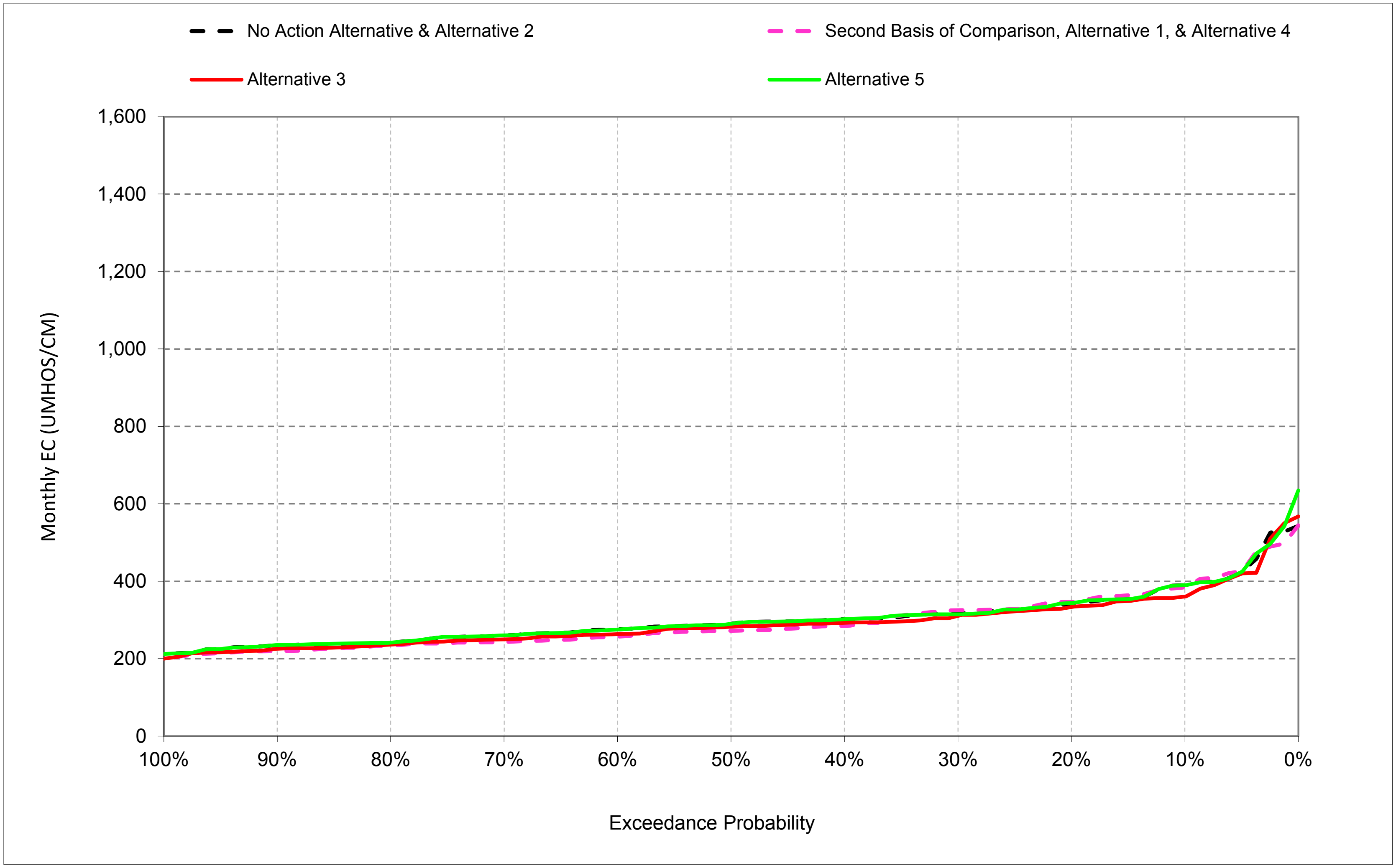
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.5. Old River at Rock Slough Salinity, Electrical Conductivity, February



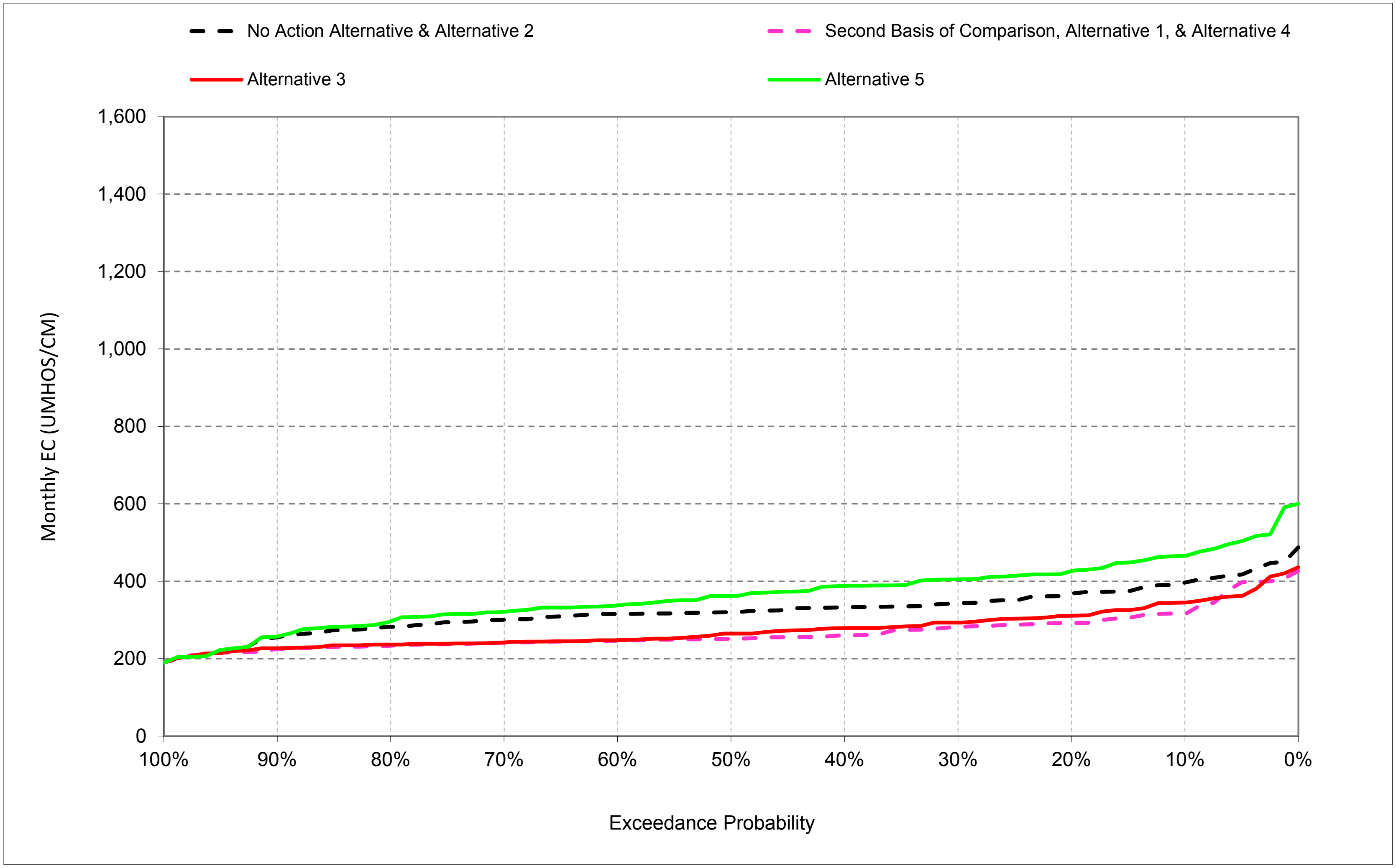
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.6. Old River at Rock Slough Salinity, Electrical Conductivity, March



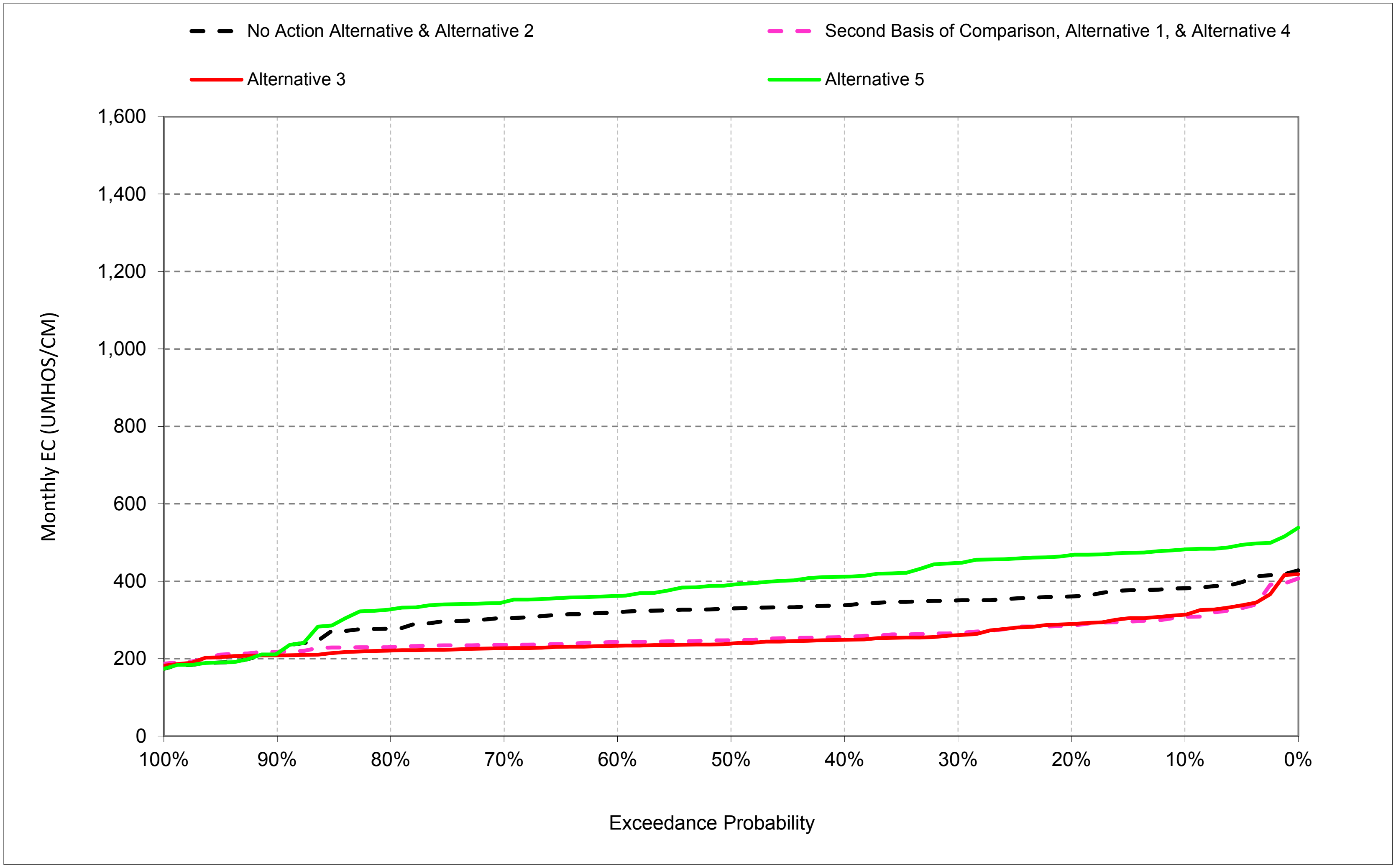
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.7. Old River at Rock Slough Salinity, Electrical Conductivity, April



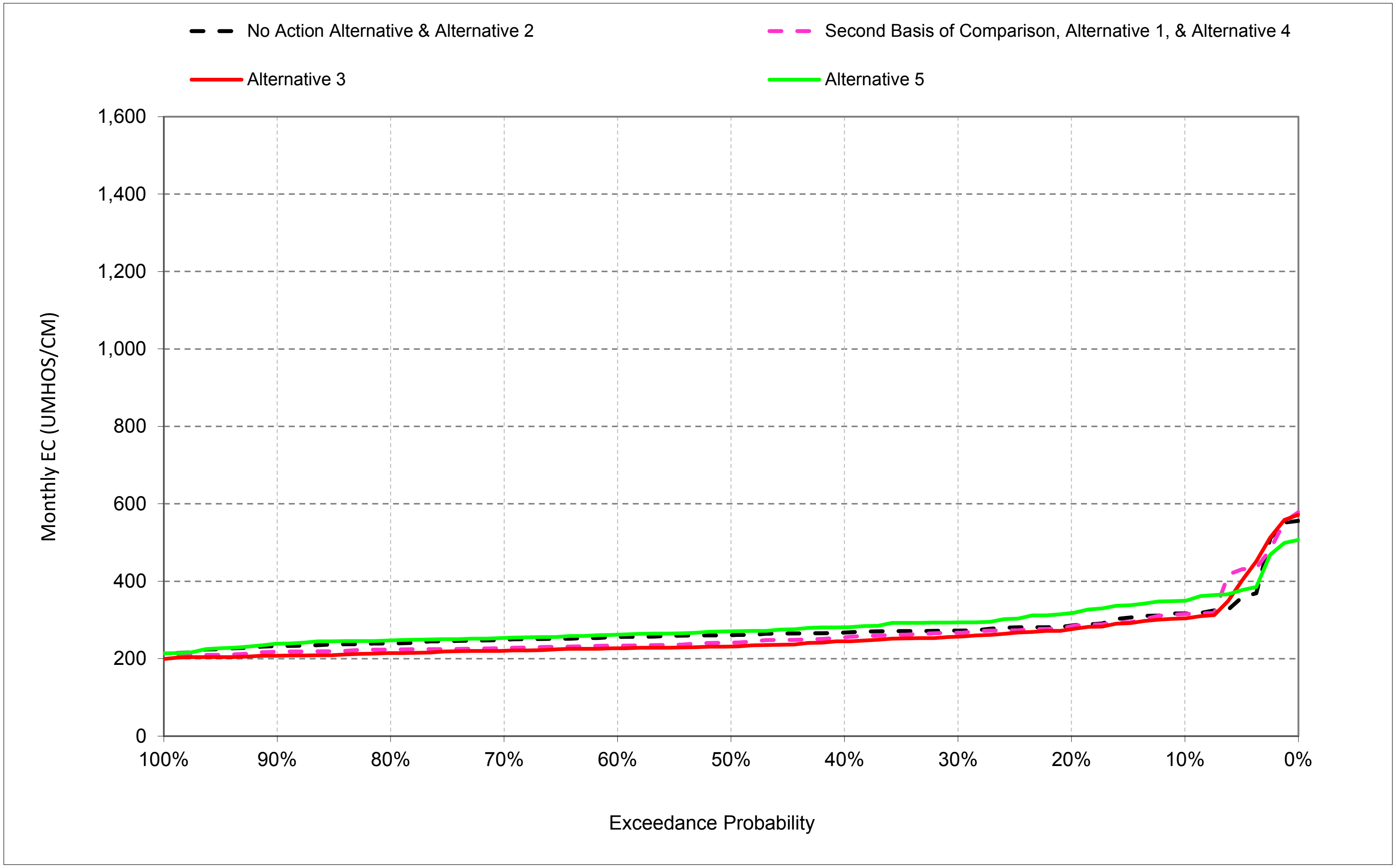
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.8. Old River at Rock Slough Salinity, Electrical Conductivity, May



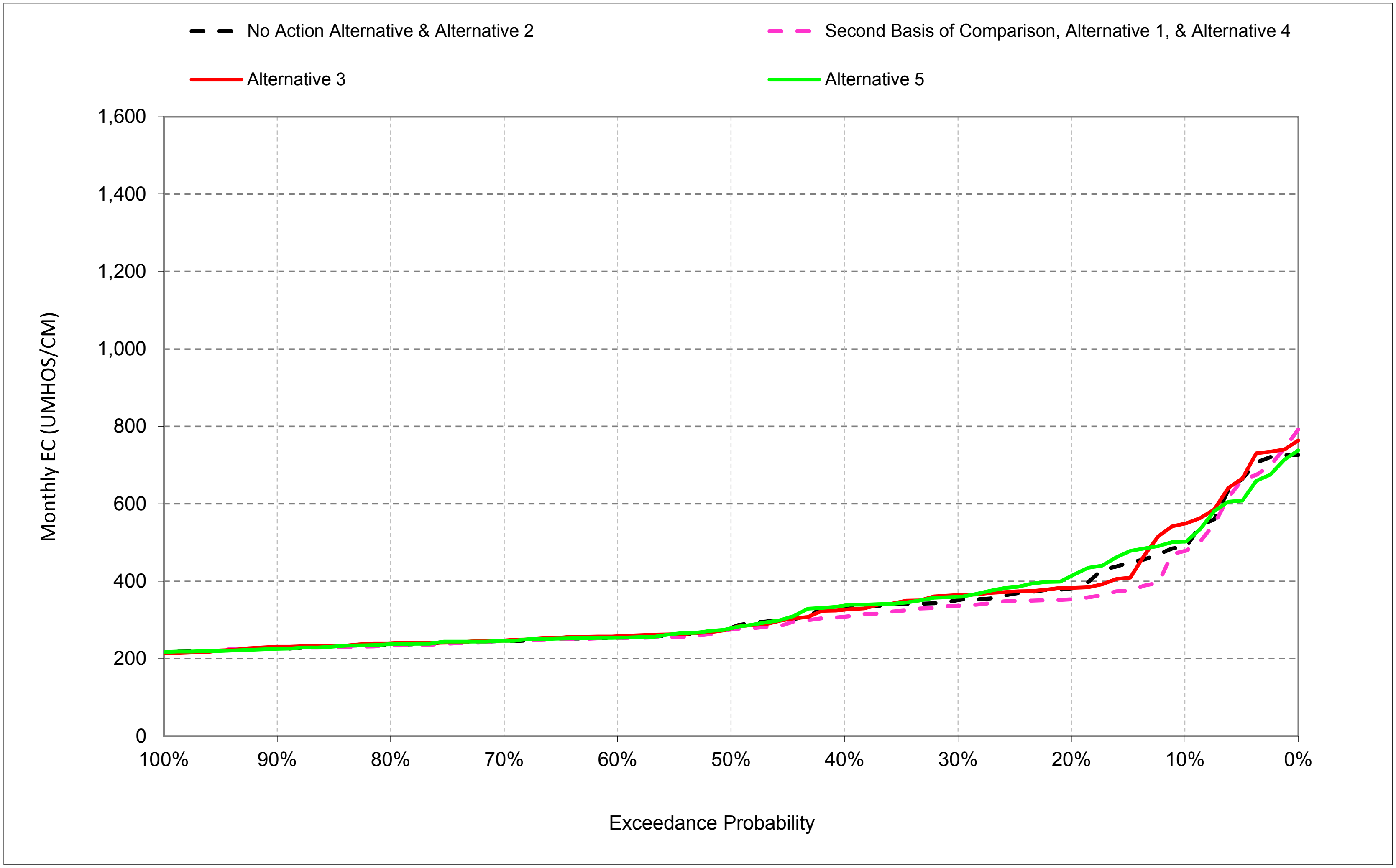
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.9. Old River at Rock Slough Salinity, Electrical Conductivity, June



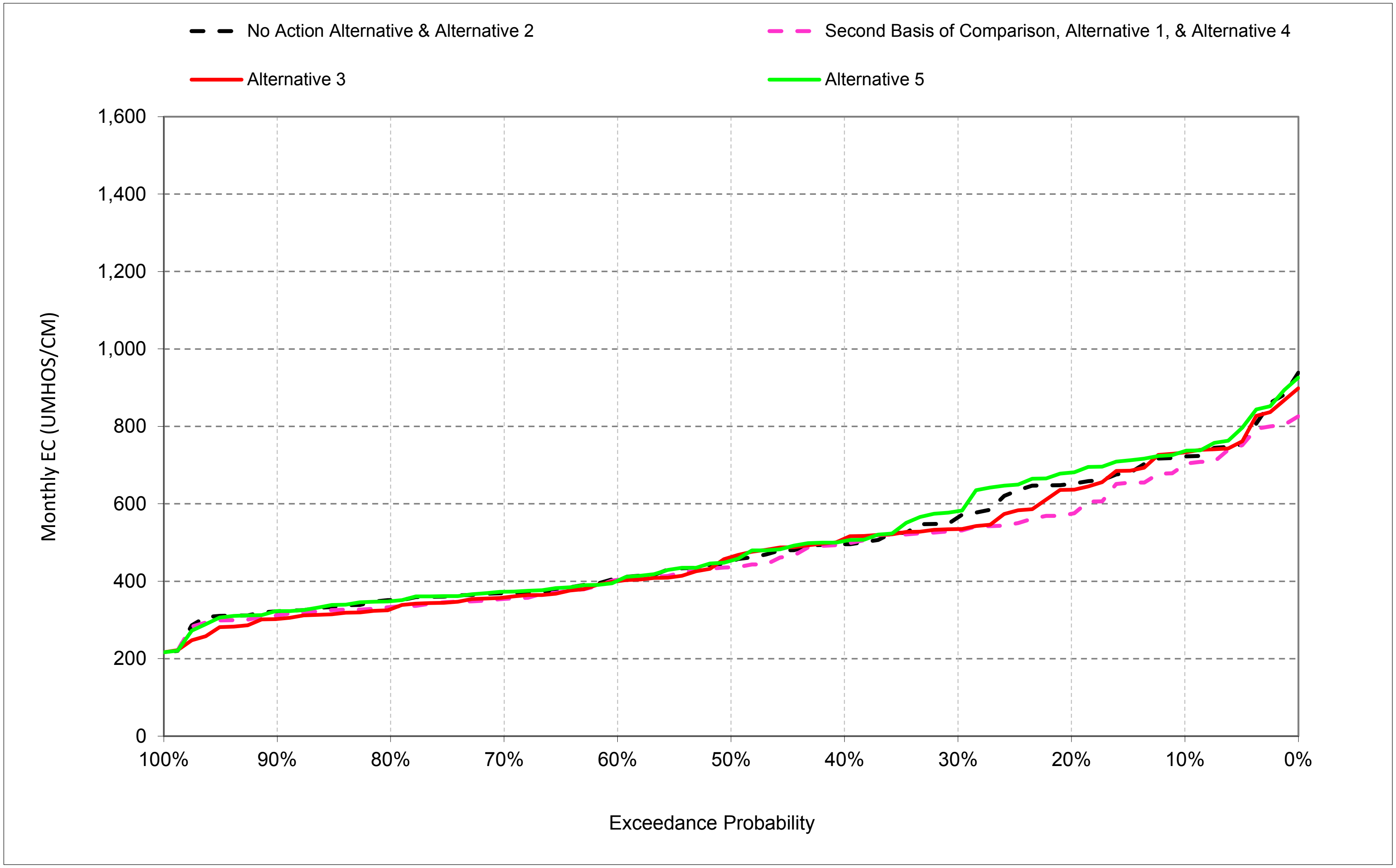
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.10. Old River at Rock Slough Salinity, Electrical Conductivity, July



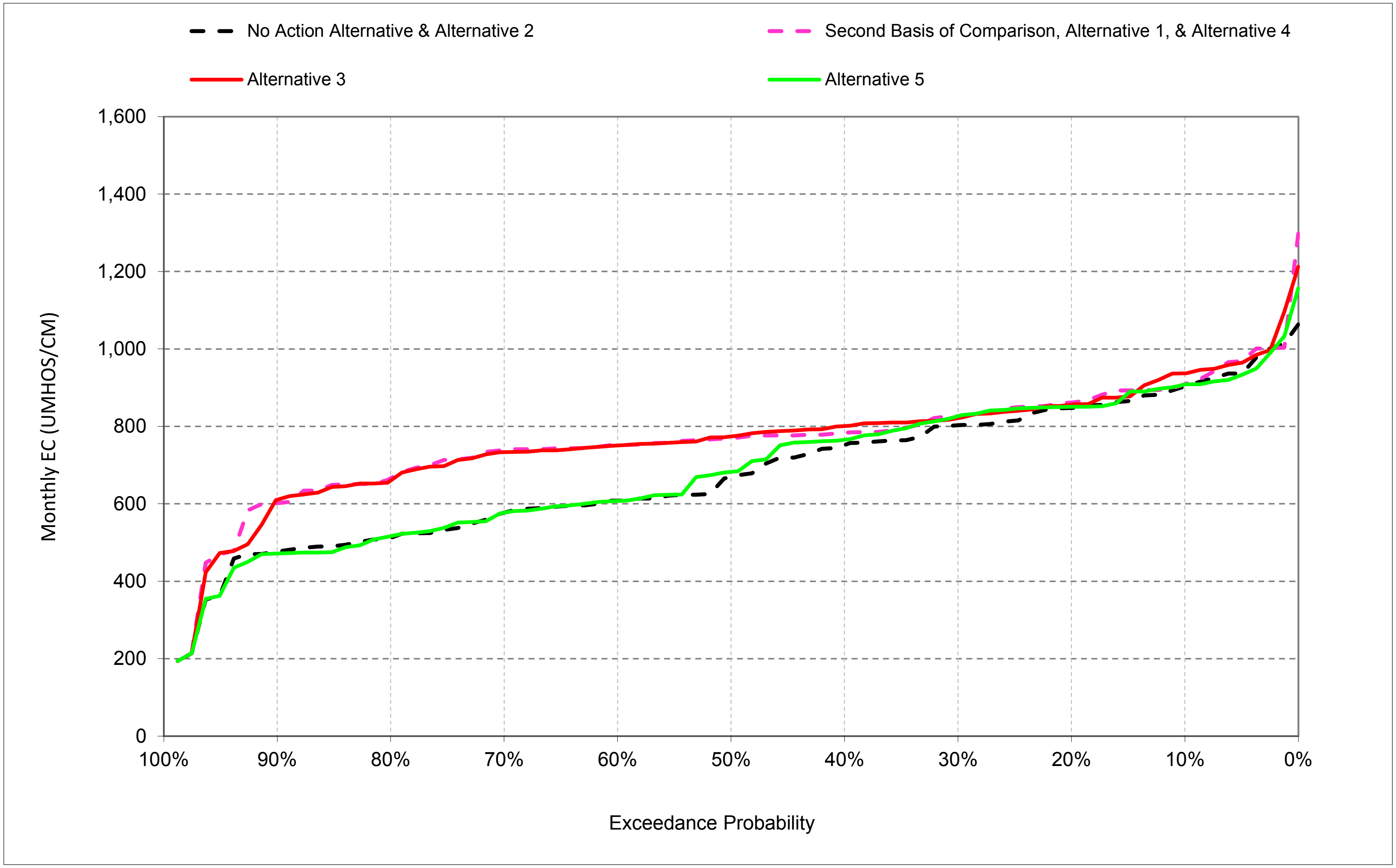
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.11. Old River at Rock Slough Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.11.12. Old River at Rock Slough Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.11.1. Old River at Rock Slough Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	1,071	1,143	1,084	881	509	390	397	382	317	489	722	903
20%	993	919	971	756	472	343	368	361	286	382	651	848
30%	924	820	842	621	406	316	343	350	272	351	565	803
40%	866	767	599	541	384	302	333	338	268	332	496	752
50%	814	611	430	480	351	290	320	329	261	279	451	670
60%	290	306	351	430	327	276	315	320	256	254	407	608
70%	282	245	311	354	297	260	301	305	249	245	369	577
80%	274	234	271	312	286	242	282	278	239	236	351	512
90%	265	225	241	283	265	235	255	213	233	226	323	476
Long Term												
Full Simulation Period[b]	640	608	588	533	379	302	324	319	274	332	491	678
Water Year Types[c]												
Wet (32%)	503	444	378	353	321	277	281	281	244	236	346	535
Above Normal (16%)	797	731	593	475	342	271	338	347	255	248	376	490
Below Normal (13%)	503	467	539	537	374	291	351	355	270	319	475	811
Dry (24%)	646	642	677	657	403	310	330	314	267	407	624	781
Critical (15%)	884	901	933	778	508	386	366	349	379	521	725	897

Alternative 1

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	1,080	1,141	1,161	987	686	384	317	308	316	478	702	909
20%	1,006	1,006	1,037	882	523	347	292	286	284	353	574	862
30%	963	931	1,016	813	420	325	282	266	267	337	531	826
40%	941	874	981	756	374	285	260	256	255	308	497	784
50%	913	847	870	599	340	272	251	248	241	275	436	770
60%	894	823	802	478	305	257	247	243	234	254	404	752
70%	863	784	696	326	292	243	241	236	227	246	354	741
80%	832	669	522	294	277	234	234	230	224	234	333	684
90%	751	492	286	262	236	220	225	218	218	228	312	608
Long Term												
Full Simulation Period[b]	895	835	819	610	399	294	268	259	265	321	469	764
Water Year Types[c]												
Wet (32%)	813	768	613	357	296	276	257	229	233	235	329	644
Above Normal (16%)	976	855	798	576	332	257	245	236	227	245	372	770
Below Normal (13%)	829	754	834	717	504	301	267	257	242	319	475	774
Dry (24%)	916	860	944	749	445	285	262	270	263	361	564	814
Critical (15%)	1,012	994	1,068	863	524	379	325	329	396	523	713	926

Alternative 1 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	9	-2	77	106	177	-6	-80	-74	-1	-11	-20	5
20%	13	86	65	127	50	4	-75	-75	-2	-29	-77	14
30%	40	111	174	192	14	9	-61	-84	-5	-14	-34	24
40%	76	108	382	215	-10	-17	-73	-82	-12	-24	1	32
50%	99	236	440	119	-10	-18	-69	-82	-20	-4	-15	100
60%	604	517	451	47	-22	-19	-69	-76	-22	-1	-3	144
70%	581	539	385	-28	-5	-17	-60	-69	-21	1	-15	164
80%	558	435	251	-18	-9	-8	-49	-48	-16	-2	-18	172
90%	486	267	45	-21	-29	-15	-30	5	-15	2	-11	132
Long Term												
Full Simulation Period[b]	255	228	231	77	20	-8	-56	-60	-10	-12	-22	87
Water Year Types[c]												
Wet (32%)	310	324	235	4	-25	-1	-24	-51	-11	-1	-16	109
Above Normal (16%)	179	125	205	101	-11	-14	-93	-111	-28	-3	-4	281
Below Normal (13%)	326	287	295	179	131	10	-84	-97	-29	-1	0	-36
Dry (24%)	270	218	267	93	42	-25	-68	-44	-3	-45	-60	33
Critical (15%)	128	93	135	85	16	-6	-40	-19	17	2	-13	29

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.11.2. Old River at Rock Slough Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	1,071	1,143	1,084	881	509	390	397	382	317	489	722	903
20%	993	919	971	756	472	343	368	361	286	382	651	848
30%	924	820	842	621	406	316	343	350	272	351	565	803
40%	866	767	599	541	384	302	333	338	268	332	496	752
50%	814	611	430	480	351	290	320	329	261	279	451	670
60%	290	306	351	430	327	276	315	320	256	254	407	608
70%	282	245	311	354	297	260	301	305	249	245	369	577
80%	274	234	271	312	286	242	282	278	239	236	351	512
90%	265	225	241	283	265	235	255	213	233	226	323	476
Long Term												
Full Simulation Period[b]	640	608	588	533	379	302	324	319	274	332	491	678
Water Year Types[c]												
Wet (32%)	503	444	378	353	321	277	281	281	244	236	346	535
Above Normal (16%)	797	731	593	475	342	271	338	347	255	248	376	490
Below Normal (13%)	503	467	539	537	374	291	351	355	270	319	475	811
Dry (24%)	646	642	677	657	403	310	330	314	267	407	624	781
Critical (15%)	884	901	933	778	508	386	366	349	379	521	725	897

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	1,075	1,125	1,158	894	505	360	345	314	304	549	733	937
20%	1,009	1,010	1,057	821	447	334	311	289	276	383	637	856
30%	974	932	1,002	763	405	310	293	261	257	365	535	823
40%	945	869	966	677	375	293	279	249	245	327	510	805
50%	907	842	862	601	335	282	265	239	231	278	462	779
60%	879	818	794	463	315	263	248	233	227	258	400	753
70%	846	790	677	339	300	250	242	227	220	247	358	734
80%	826	732	509	314	274	236	236	221	215	239	328	683
90%	769	545	298	268	245	226	227	209	208	231	303	620
Long Term												
Full Simulation Period[b]	896	850	808	576	367	293	276	254	256	337	480	765
Water Year Types[c]												
Wet (32%)	806	782	613	376	305	269	252	220	220	237	324	627
Above Normal (16%)	999	892	791	557	326	258	249	229	221	252	372	776
Below Normal (13%)	833	742	836	656	387	280	276	260	245	344	496	826
Dry (24%)	907	885	943	702	392	301	284	262	254	403	600	805
Critical (15%)	1,015	993	998	750	489	381	342	334	387	527	721	926

Alternative 3 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	5	-18	74	13	-4	-30	-52	-68	-13	60	11	33
20%	16	90	85	66	-25	-9	-57	-72	-10	1	-15	8
30%	50	112	160	142	-1	-6	-50	-90	-16	14	-30	20
40%	80	103	367	136	-9	-9	-54	-89	-23	-6	14	54
50%	93	231	432	121	-16	-8	-55	-90	-30	-1	11	109
60%	588	512	443	33	-12	-12	-67	-86	-29	4	-7	145
70%	564	545	366	-14	3	-11	-59	-78	-29	2	-11	157
80%	552	498	238	2	-12	-5	-46	-57	-24	4	-23	170
90%	504	320	57	-15	-20	-10	-29	-5	-25	5	-20	144
Long Term												
Full Simulation Period[b]	255	242	220	43	-11	-9	-48	-65	-18	4	-11	87
Water Year Types[c]												
Wet (32%)	303	337	236	23	-16	-8	-29	-61	-24	2	-22	92
Above Normal (16%)	203	162	198	82	-16	-14	-89	-117	-34	3	-4	286
Below Normal (13%)	330	275	297	119	13	-11	-75	-94	-25	24	21	16
Dry (24%)	262	243	266	45	-11	-9	-46	-51	-13	-4	-24	25
Critical (15%)	131	92	65	-28	-20	-4	-24	-15	8	6	-4	29

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.11.3. Old River at Rock Slough Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,071	1,143	1,084	881	509	390	397	382	317	489	722	903
20%	993	919	971	756	472	343	368	361	286	382	651	848
30%	924	820	842	621	406	316	343	350	272	351	565	803
40%	866	767	599	541	384	302	333	338	268	332	496	752
50%	814	611	430	480	351	290	320	329	261	279	451	670
60%	290	306	351	430	327	276	315	320	256	254	407	608
70%	282	245	311	354	297	260	301	305	249	245	369	577
80%	274	234	271	312	286	242	282	278	239	236	351	512
90%	265	225	241	283	265	235	255	213	233	226	323	476
Long Term												
Full Simulation Period[b]	640	608	588	533	379	302	324	319	274	332	491	678
Water Year Types[c]												
Wet (32%)	503	444	378	353	321	277	281	281	244	236	346	535
Above Normal (16%)	797	731	593	475	342	271	338	347	255	248	376	490
Below Normal (13%)	503	467	539	537	374	291	351	355	270	319	475	811
Dry (24%)	646	642	677	657	403	310	330	314	267	407	624	781
Critical (15%)	884	901	933	778	508	386	366	349	379	521	725	897

Alternative 5

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,106	1,138	1,079	927	510	390	466	482	350	503	736	908
20%	996	963	949	766	473	344	426	468	318	414	681	850
30%	934	832	846	624	411	315	405	447	294	360	581	826
40%	889	759	650	543	385	302	388	412	281	337	504	766
50%	800	621	412	482	350	290	362	391	271	279	453	682
60%	291	305	350	428	328	276	338	362	262	254	401	608
70%	281	244	312	345	297	260	321	346	253	246	373	577
80%	275	233	270	312	286	242	296	327	247	238	348	517
90%	267	225	241	283	265	235	257	213	239	225	323	471
Long Term												
Full Simulation Period[b]	645	609	588	536	383	303	364	380	287	336	500	686
Water Year Types[c]												
Wet (32%)	504	454	384	353	323	278	282	285	246	236	345	532
Above Normal (16%)	812	724	583	473	342	271	342	361	260	249	374	488
Below Normal (13%)	502	470	538	537	373	290	381	411	286	324	476	820
Dry (24%)	651	637	675	668	406	311	413	440	296	426	656	803
Critical (15%)	886	900	932	783	525	393	472	480	387	506	734	914

Alternative 5 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	35	-5	-5	46	1	0	69	101	33	14	14	5
20%	3	44	-22	11	1	1	58	107	32	32	29	3
30%	10	12	4	4	6	-1	62	97	21	9	16	24
40%	24	-8	51	2	1	0	55	74	14	5	8	14
50%	-13	10	-18	2	-1	0	42	61	10	-1	2	12
60%	1	-1	-2	-2	1	0	22	43	6	0	-6	0
70%	-1	-1	2	-8	0	0	20	41	5	1	3	0
80%	1	0	0	0	0	0	14	50	8	2	-3	4
90%	2	0	0	0	0	0	2	0	6	-1	0	-5
Long Term												
Full Simulation Period[b]	4	1	0	3	4	1	41	61	12	3	9	8
Water Year Types[c]												
Wet (32%)	1	10	6	0	2	1	1	5	2	0	0	-3
Above Normal (16%)	15	-6	-10	-2	0	0	4	14	6	1	-1	-1
Below Normal (13%)	-1	3	-1	-1	-1	-1	30	56	16	4	1	9
Dry (24%)	6	-5	-2	12	3	1	83	126	29	19	32	23
Critical (15%)	3	-1	-1	5	17	8	106	132	8	-15	9	17

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.11.4. Old River at Rock Slough Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,080	1,141	1,161	987	686	384	317	308	316	478	702	909
20%	1,006	1,006	1,037	882	523	347	292	286	284	353	574	862
30%	963	931	1,016	813	420	325	282	266	267	337	531	826
40%	941	874	981	756	374	285	260	256	255	308	497	784
50%	913	847	870	599	340	272	251	248	241	275	436	770
60%	894	823	802	478	305	257	247	243	234	254	404	752
70%	863	784	696	326	292	243	241	236	227	246	354	741
80%	832	669	522	294	277	234	234	230	224	234	333	684
90%	751	492	286	262	236	220	225	218	218	228	312	608
Long Term												
Full Simulation Period[b]	895	835	819	610	399	294	268	259	265	321	469	764
Water Year Types[c]												
Wet (32%)	813	768	613	357	296	276	257	229	233	235	329	644
Above Normal (16%)	976	855	798	576	332	257	245	236	227	245	372	770
Below Normal (13%)	829	754	834	717	504	301	267	257	242	319	475	774
Dry (24%)	916	860	944	749	445	285	262	270	263	361	564	814
Critical (15%)	1,012	994	1,068	863	524	379	325	329	396	523	713	926

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,071	1,143	1,084	881	509	390	397	382	317	489	722	903
20%	993	919	971	756	472	343	368	361	286	382	651	848
30%	924	820	842	621	406	316	343	350	272	351	565	803
40%	866	767	599	541	384	302	333	338	268	332	496	752
50%	814	611	430	480	351	290	320	329	261	279	451	670
60%	290	306	351	430	327	276	315	320	256	254	407	608
70%	282	245	311	354	297	260	301	305	249	245	369	577
80%	274	234	271	312	286	242	282	278	239	236	351	512
90%	265	225	241	283	265	235	255	213	233	226	323	476
Long Term												
Full Simulation Period[b]	640	608	588	533	379	302	324	319	274	332	491	678
Water Year Types[c]												
Wet (32%)	503	444	378	353	321	277	281	281	244	236	346	535
Above Normal (16%)	797	731	593	475	342	271	338	347	255	248	376	490
Below Normal (13%)	503	467	539	537	374	291	351	355	270	319	475	811
Dry (24%)	646	642	677	657	403	310	330	314	267	407	624	781
Critical (15%)	884	901	933	778	508	386	366	349	379	521	725	897

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-9	2	-77	-106	-177	6	80	74	1	11	20	-5
20%	-13	-86	-65	-127	-50	-4	75	75	2	29	77	-14
30%	-40	-111	-174	-192	-14	-9	61	84	5	14	34	-24
40%	-76	-108	-382	-215	10	17	73	82	12	24	-1	-32
50%	-99	-236	-440	-119	10	18	69	82	20	4	15	-100
60%	-604	-517	-451	-47	22	19	69	76	22	1	3	-144
70%	-581	-539	-385	28	5	17	60	69	21	-1	15	-164
80%	-558	-435	-251	18	9	8	49	48	16	2	18	-172
90%	-486	-267	-45	21	29	15	30	-5	15	-2	11	-132
Long Term												
Full Simulation Period[b]	-255	-228	-231	-77	-20	8	56	60	10	12	22	-87
Water Year Types[c]												
Wet (32%)	-310	-324	-235	-4	25	1	24	51	11	1	16	-109
Above Normal (16%)	-179	-125	-205	-101	11	14	93	111	28	3	4	-281
Below Normal (13%)	-326	-287	-295	-179	-131	-10	84	97	29	1	0	36
Dry (24%)	-270	-218	-267	-93	-42	25	68	44	3	45	60	-33
Critical (15%)	-128	-93	-135	-85	-16	6	40	19	-17	-2	13	-29

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.11.5. Old River at Rock Slough Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,080	1,141	1,161	987	686	384	317	308	316	478	702	909
20%	1,006	1,006	1,037	882	523	347	292	286	284	353	574	862
30%	963	931	1,016	813	420	325	282	266	267	337	531	826
40%	941	874	981	756	374	285	260	256	255	308	497	784
50%	913	847	870	599	340	272	251	248	241	275	436	770
60%	894	823	802	478	305	257	247	243	234	254	404	752
70%	863	784	696	326	292	243	241	236	227	246	354	741
80%	832	669	522	294	277	234	234	230	224	234	333	684
90%	751	492	286	262	236	220	225	218	218	228	312	608
Long Term												
Full Simulation Period[b]	895	835	819	610	399	294	268	259	265	321	469	764
Water Year Types[c]												
Wet (32%)	813	768	613	357	296	276	257	229	233	235	329	644
Above Normal (16%)	976	855	798	576	332	257	245	236	227	245	372	770
Below Normal (13%)	829	754	834	717	504	301	267	257	242	319	475	774
Dry (24%)	916	860	944	749	445	285	262	270	263	361	564	814
Critical (15%)	1,012	994	1,068	863	524	379	325	329	396	523	713	926

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,075	1,125	1,158	894	505	360	345	314	304	549	733	937
20%	1,009	1,010	1,057	821	447	334	311	289	276	383	637	856
30%	974	932	1,002	763	405	310	293	261	257	365	535	823
40%	945	869	966	677	375	293	279	249	245	327	510	805
50%	907	842	862	601	335	282	265	239	231	278	462	779
60%	879	818	794	463	315	263	248	233	227	258	400	753
70%	846	790	677	339	300	250	242	227	220	247	358	734
80%	826	732	509	314	274	236	236	221	215	239	328	683
90%	769	545	298	268	245	226	227	209	208	231	303	620
Long Term												
Full Simulation Period[b]	896	850	808	576	367	293	276	254	256	337	480	765
Water Year Types[c]												
Wet (32%)	806	782	613	376	305	269	252	220	220	237	324	627
Above Normal (16%)	999	892	791	557	326	258	249	229	221	252	372	776
Below Normal (13%)	833	742	836	656	387	280	276	260	245	344	496	826
Dry (24%)	907	885	943	702	392	301	284	262	254	403	600	805
Critical (15%)	1,015	993	998	750	489	381	342	334	387	527	721	926

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-4	-16	-3	-93	-181	-24	28	6	-11	71	31	28
20%	3	4	20	-61	-75	-13	19	4	-8	30	62	-5
30%	10	1	-15	-50	-15	-15	12	-6	-10	28	4	-4
40%	4	-5	-15	-79	1	8	19	-7	-11	18	13	22
50%	-6	-5	-8	2	-5	10	14	-9	-10	3	26	9
60%	-16	-6	-8	-14	10	7	1	-10	-7	4	-3	1
70%	-18	6	-19	14	8	7	1	-9	-7	1	4	-7
80%	-6	63	-13	20	-3	3	3	-9	-9	5	-6	-2
90%	18	53	12	6	10	6	2	-9	-10	3	-9	12
Long Term												
Full Simulation Period[b]	0	14	-11	-34	-32	-1	8	-5	-8	16	11	0
Water Year Types[c]												
Wet (32%)	-7	13	1	18	9	-7	-5	-9	-13	2	-6	-17
Above Normal (16%)	23	37	-7	-20	-5	1	4	-6	-6	6	0	6
Below Normal (13%)	4	-12	2	-61	-118	-21	9	3	3	25	21	52
Dry (24%)	-8	25	-1	-48	-53	16	22	-8	-10	41	36	-9
Critical (15%)	3	-1	-70	-113	-35	2	17	4	-9	4	8	0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.11.6. Old River at Rock Slough Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,080	1,141	1,161	987	686	384	317	308	316	478	702	909
20%	1,006	1,006	1,037	882	523	347	292	286	284	353	574	862
30%	963	931	1,016	813	420	325	282	266	267	337	531	826
40%	941	874	981	756	374	285	260	256	255	308	497	784
50%	913	847	870	599	340	272	251	248	241	275	436	770
60%	894	823	802	478	305	257	247	243	234	254	404	752
70%	863	784	696	326	292	243	241	236	227	246	354	741
80%	832	669	522	294	277	234	234	230	224	234	333	684
90%	751	492	286	262	236	220	225	218	218	228	312	608
Long Term												
Full Simulation Period[b]	895	835	819	610	399	294	268	259	265	321	469	764
Water Year Types[c]												
Wet (32%)	813	768	613	357	296	276	257	229	233	235	329	644
Above Normal (16%)	976	855	798	576	332	257	245	236	227	245	372	770
Below Normal (13%)	829	754	834	717	504	301	267	257	242	319	475	774
Dry (24%)	916	860	944	749	445	285	262	270	263	361	564	814
Critical (15%)	1,012	994	1,068	863	524	379	325	329	396	523	713	926

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1,106	1,138	1,079	927	510	390	466	482	350	503	736	908
20%	996	963	949	766	473	344	426	468	318	414	681	850
30%	934	832	846	624	411	315	405	447	294	360	581	826
40%	889	759	650	543	385	302	388	412	281	337	504	766
50%	800	621	412	482	350	290	362	391	271	279	453	682
60%	291	305	350	428	328	276	338	362	262	254	401	608
70%	281	244	312	345	297	260	321	346	253	246	373	577
80%	275	233	270	312	286	242	296	327	247	238	348	517
90%	267	225	241	283	265	235	257	213	239	225	323	471
Long Term												
Full Simulation Period[b]	645	609	588	536	383	303	364	380	287	336	500	686
Water Year Types[c]												
Wet (32%)	504	454	384	353	323	278	282	285	246	236	345	532
Above Normal (16%)	812	724	583	473	342	271	342	361	260	249	374	488
Below Normal (13%)	502	470	538	537	373	290	381	411	286	324	476	820
Dry (24%)	651	637	675	668	406	311	413	440	296	426	656	803
Critical (15%)	886	900	932	783	525	393	472	480	387	506	734	914

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	26	-3	-82	-60	-176	6	149	175	34	24	34	-1
20%	-10	-42	-88	-116	-50	-3	134	182	34	61	106	-11
30%	-30	-99	-170	-188	-8	-10	123	181	27	23	50	0
40%	-52	-115	-331	-213	11	18	128	156	26	29	7	-18
50%	-113	-226	-458	-117	9	18	111	143	29	3	17	-88
60%	-603	-519	-452	-50	23	19	91	119	28	0	-3	-144
70%	-582	-540	-384	20	5	17	80	110	26	0	18	-164
80%	-558	-436	-252	18	9	8	63	97	24	3	15	-168
90%	-484	-267	-45	21	29	15	32	-4	21	-3	11	-137
Long Term												
Full Simulation Period[b]	-251	-227	-232	-73	-17	10	97	122	22	15	31	-79
Water Year Types[c]												
Wet (32%)	-309	-314	-229	-4	27	2	25	56	13	1	16	-112
Above Normal (16%)	-164	-131	-214	-103	11	14	98	125	34	4	2	-282
Below Normal (13%)	-327	-283	-295	-180	-132	-11	114	153	45	5	2	45
Dry (24%)	-264	-223	-269	-81	-39	25	151	170	32	65	92	-10
Critical (15%)	-126	-94	-136	-80	2	14	147	151	-9	-17	21	-12

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

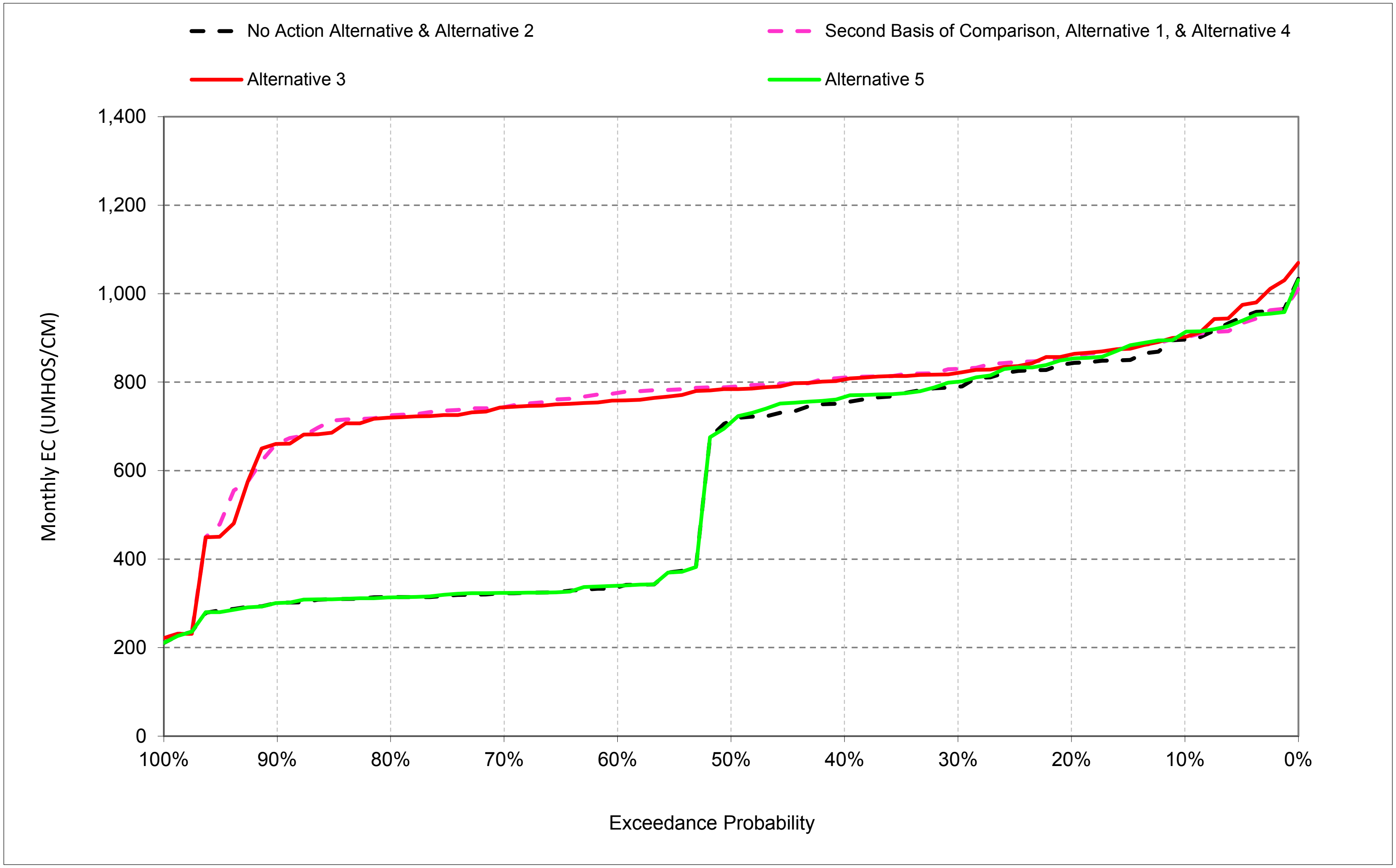
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

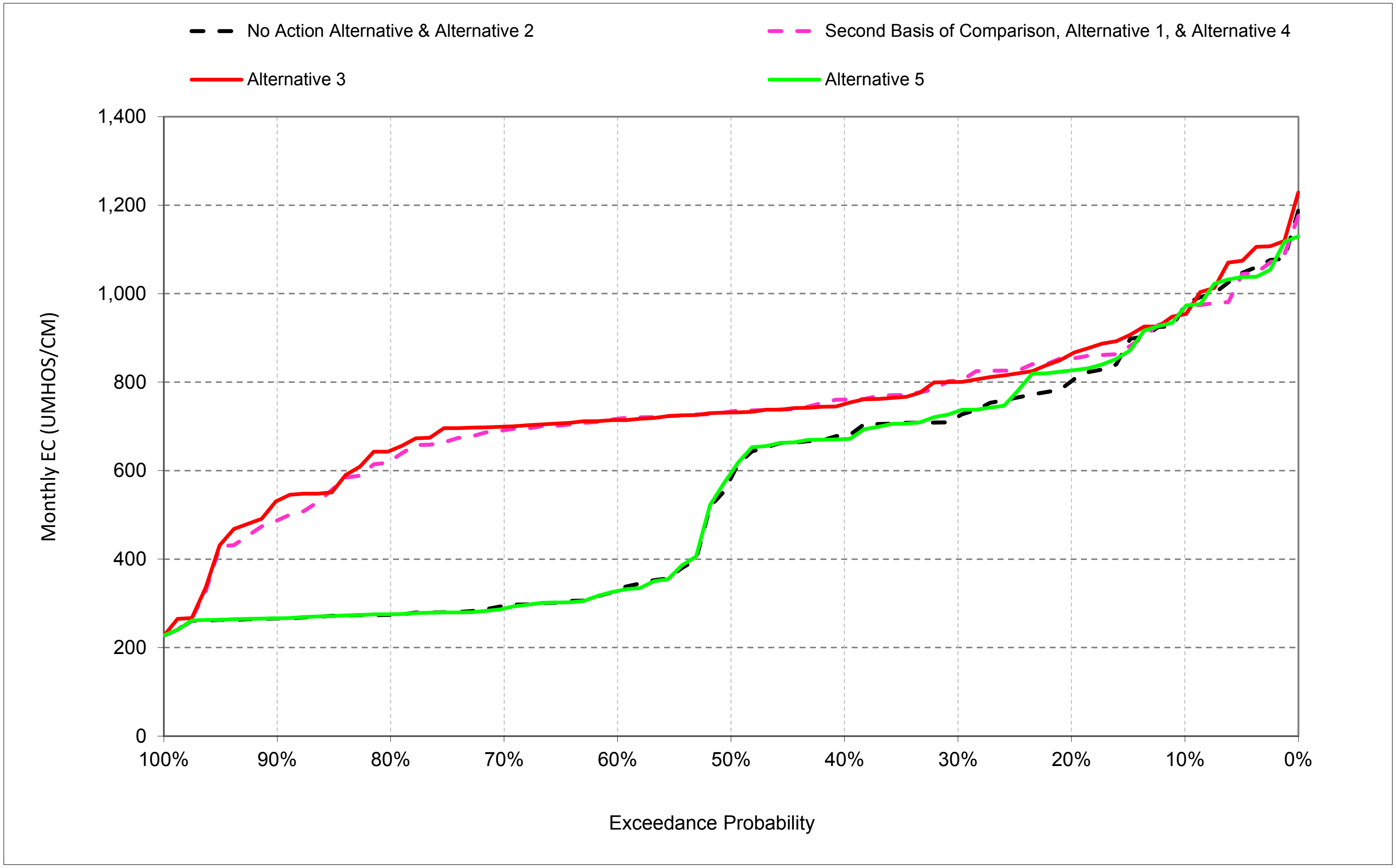
B.12 Contra Costa Water District Old River Intake Salinity

Figure 6E.B.12.1. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, October



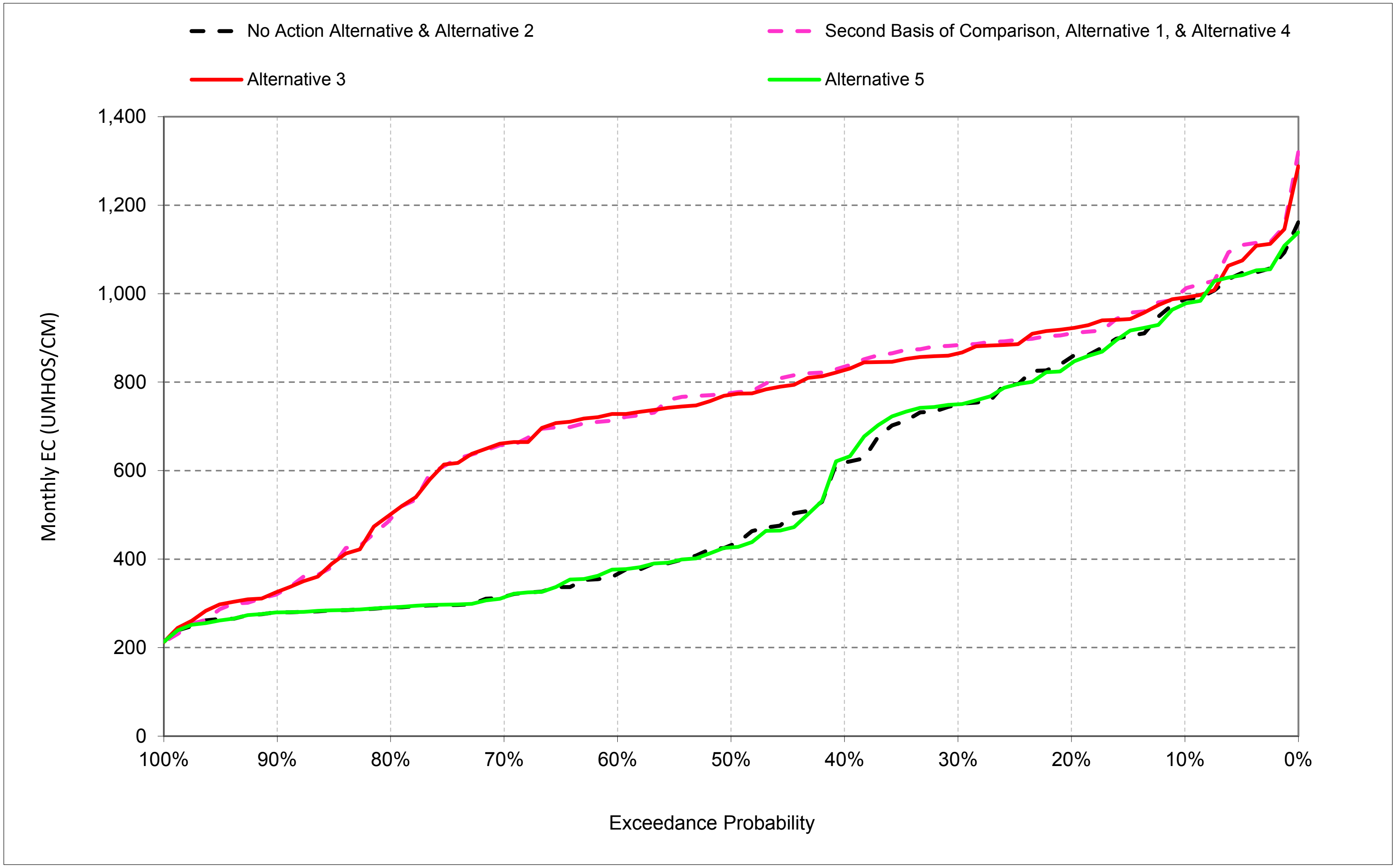
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.2. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, November



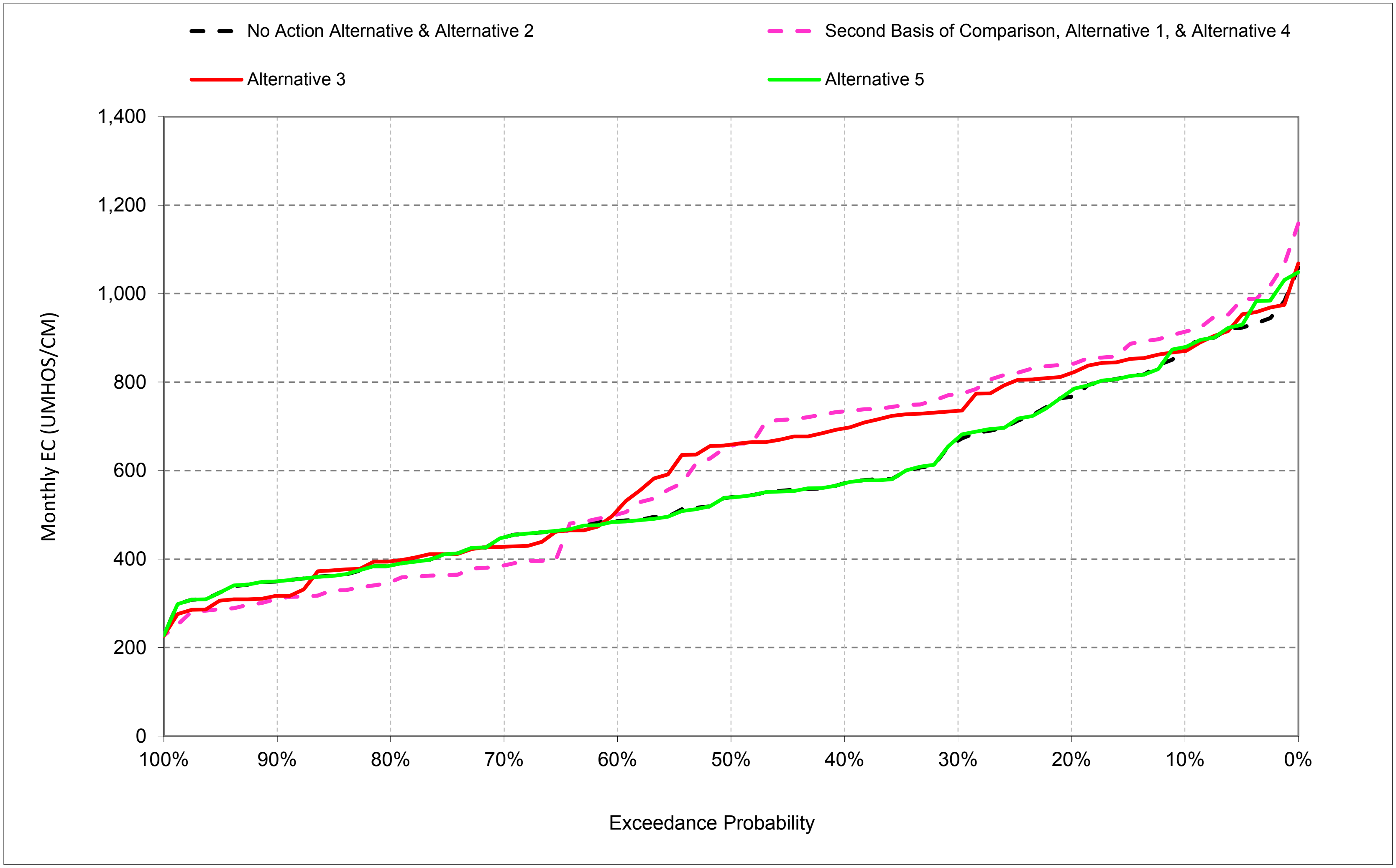
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.3. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, December



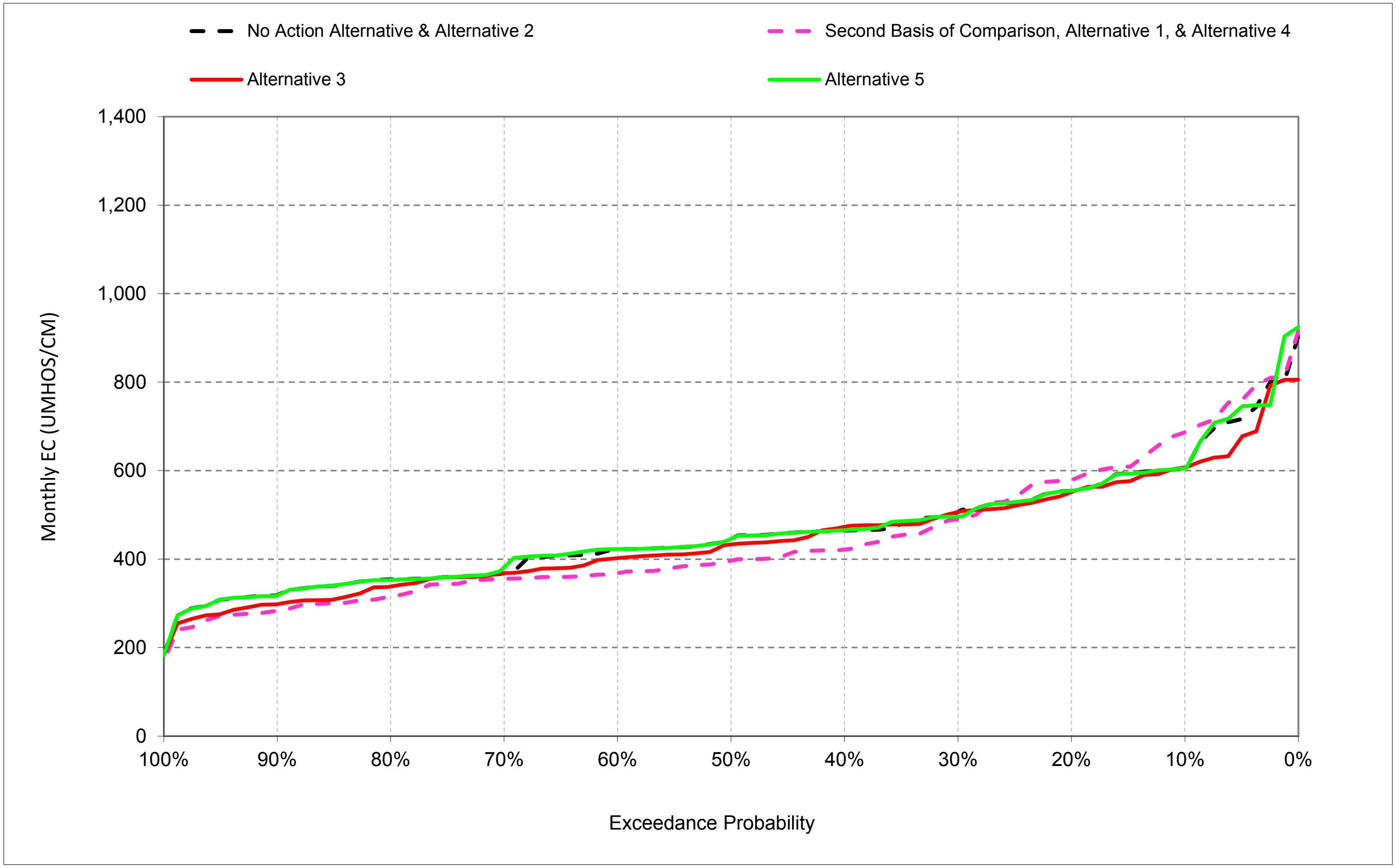
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.4. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, January



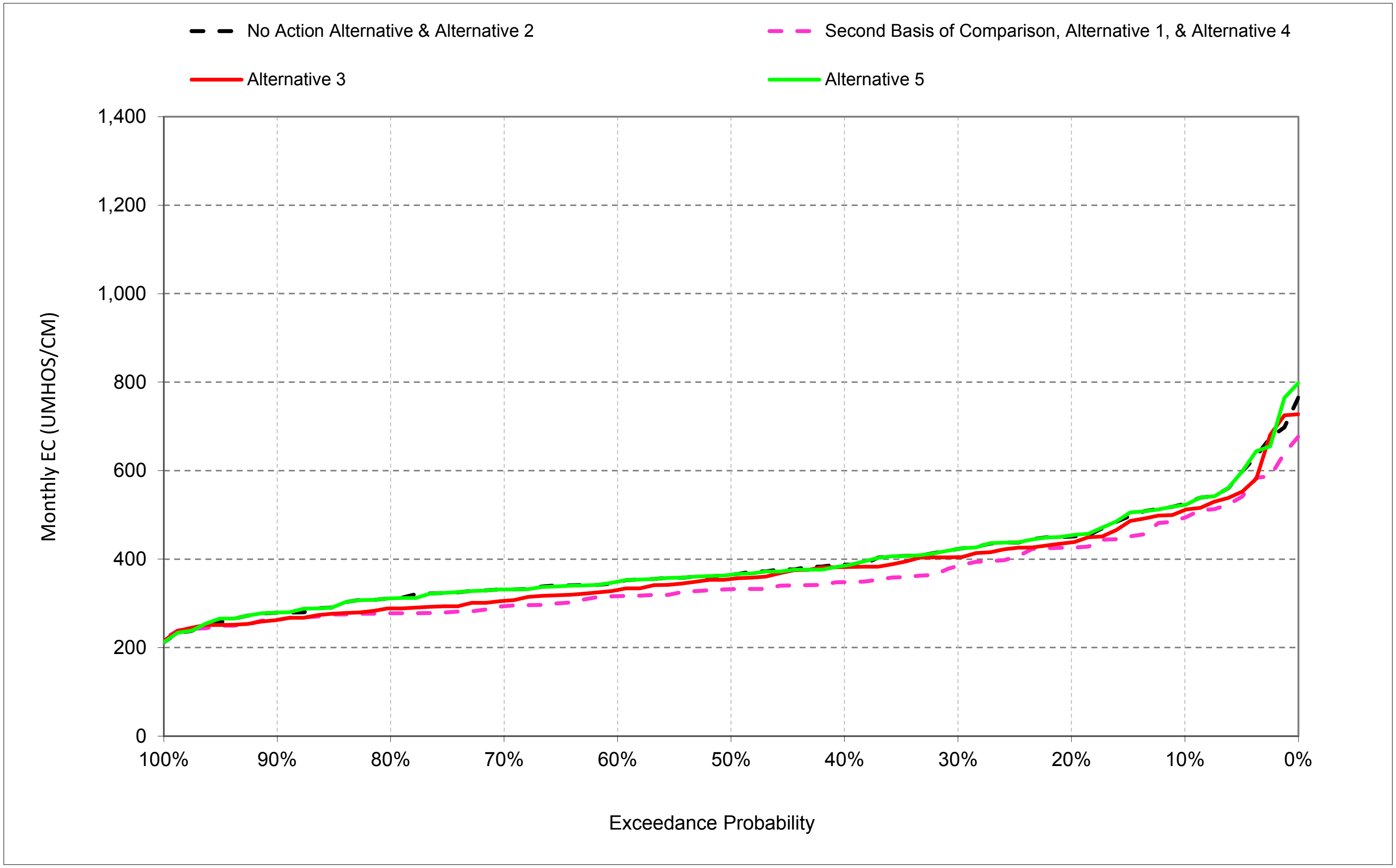
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.5. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, February



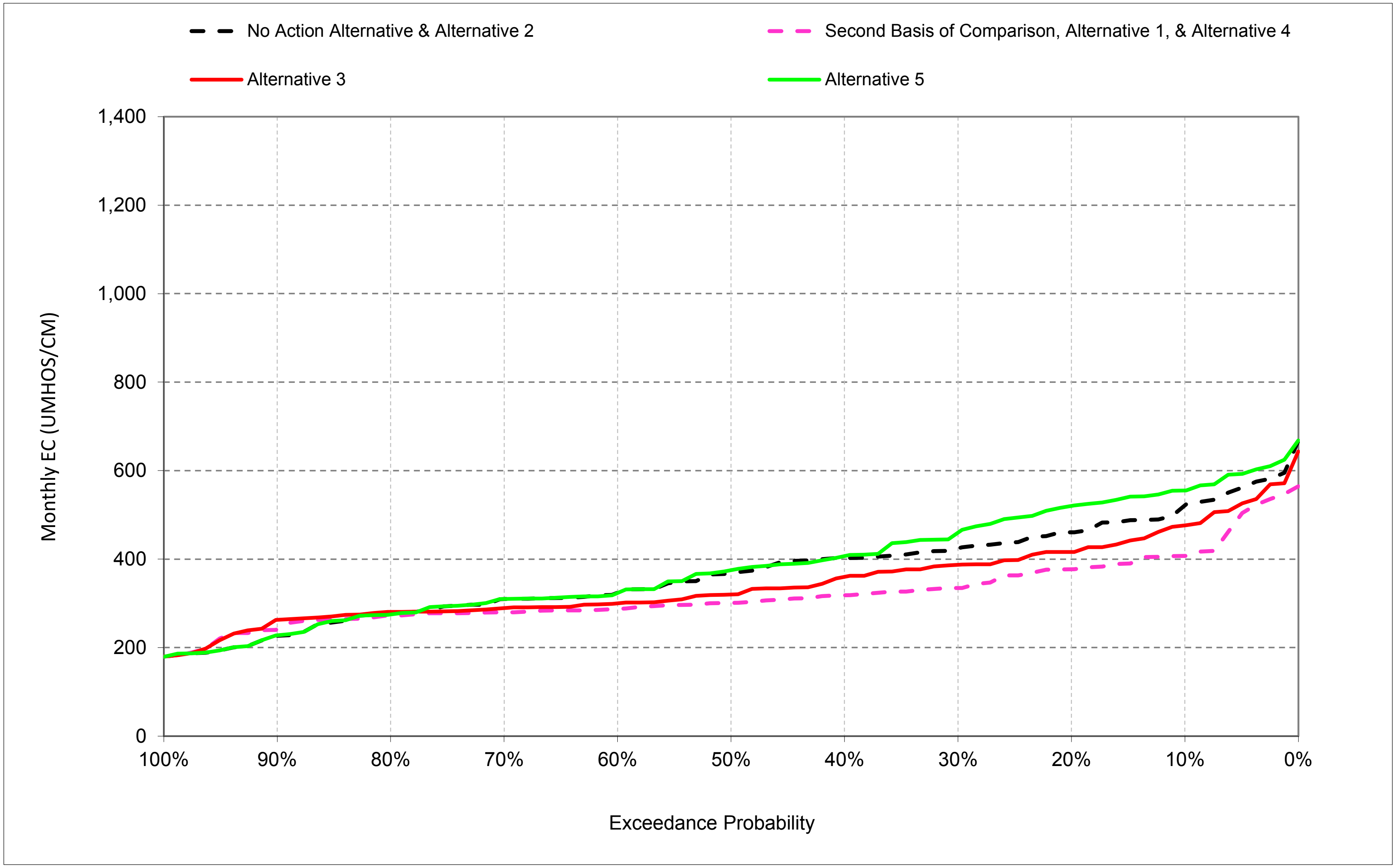
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.6. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, March



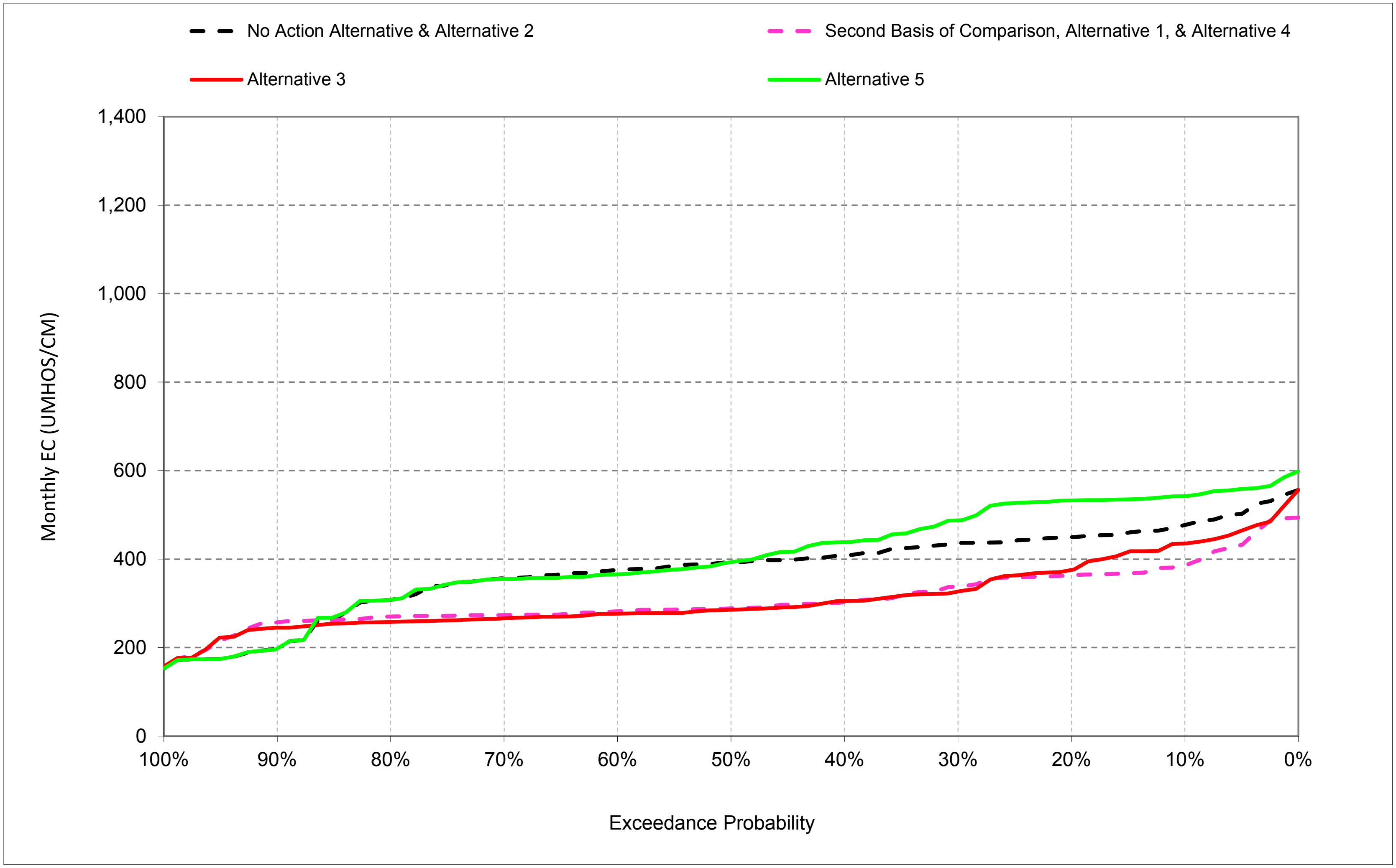
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.7. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, April



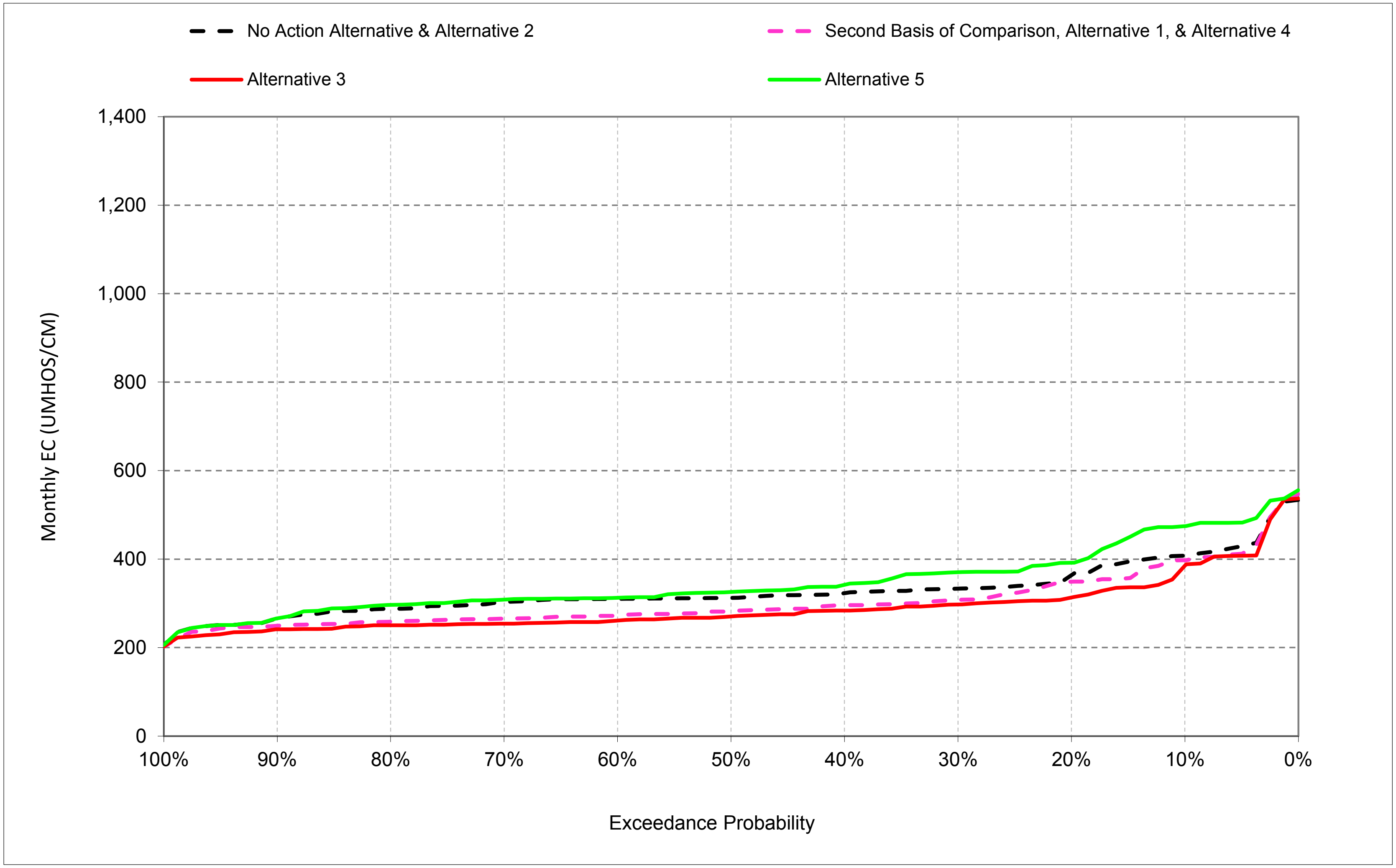
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.8. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, May



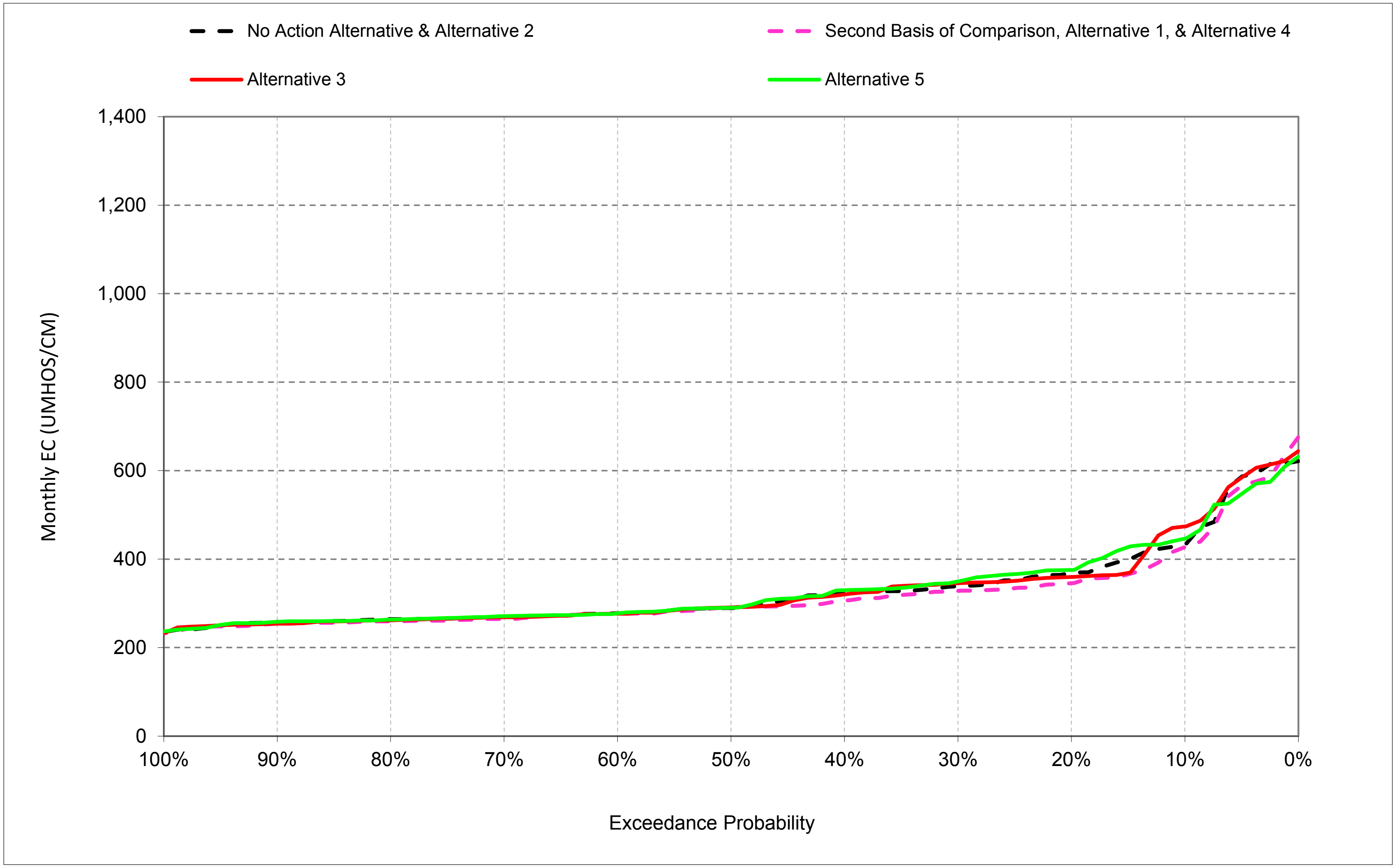
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.9. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, June



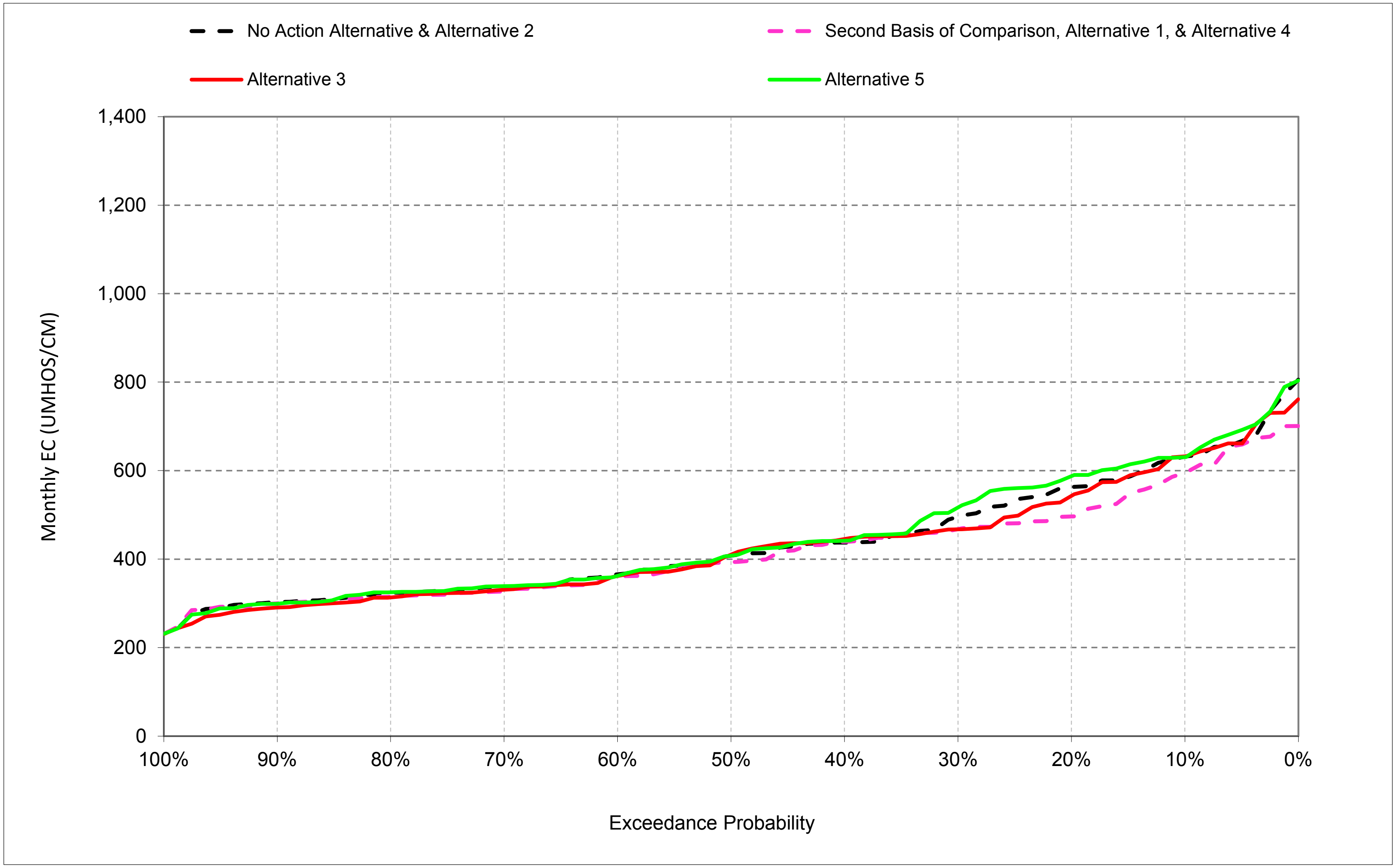
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.10. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, July



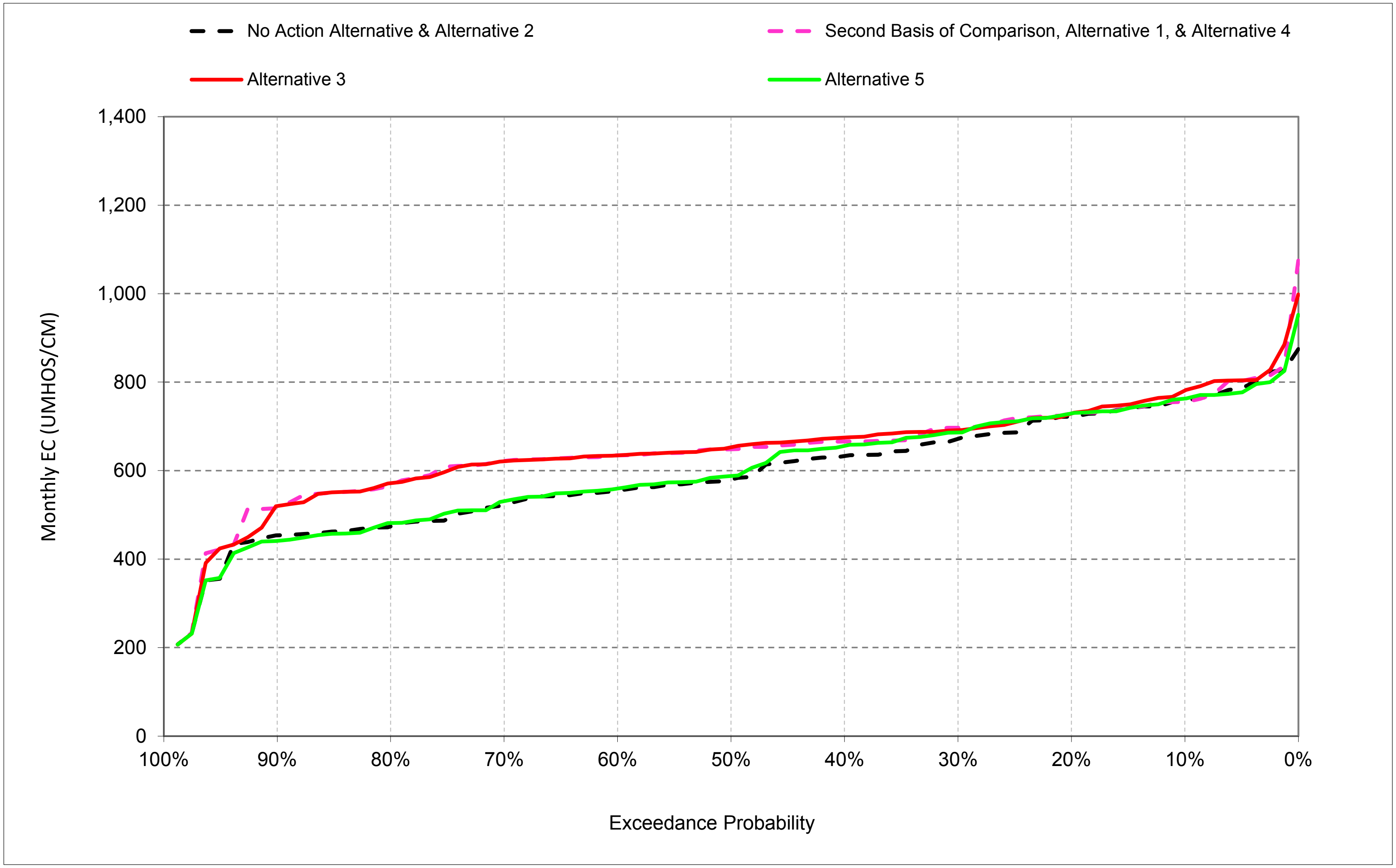
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.11. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.12.12. Contra Costa Water District Old River Intake Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.12.1. Contra Costa Water District Old River Intake Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	896	973	987	875	605	525	521	477	408	434	631	759
20%	843	802	857	767	554	451	461	449	364	368	563	722
30%	790	722	749	667	507	423	424	436	333	339	496	672
40%	754	680	618	571	464	387	402	408	323	325	437	633
50%	713	584	431	540	446	365	368	393	312	289	408	580
60%	337	330	366	486	422	348	324	375	310	277	366	555
70%	323	294	315	449	368	331	310	356	303	270	337	523
80%	314	274	291	385	354	311	279	308	288	264	324	474
90%	301	266	280	349	319	279	227	198	266	258	303	454
Long Term												
Full Simulation Period[b]	580	558	554	570	463	390	370	376	328	329	436	594
Water Year Types[c]												
Wet (32%)	483	436	396	428	373	321	260	284	284	266	323	498
Above Normal (16%)	692	656	571	542	444	346	341	377	308	266	339	460
Below Normal (13%)	487	451	506	558	472	390	408	436	338	311	422	688
Dry (24%)	580	584	618	662	499	424	427	407	329	373	548	666
Critical (15%)	753	772	819	766	610	533	511	468	429	477	614	740

Alternative 1

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	901	968	1,010	914	687	494	407	386	397	427	595	755
20%	856	854	910	841	580	426	377	364	349	345	496	729
30%	830	804	884	773	490	385	335	338	308	328	468	697
40%	810	761	835	734	422	348	318	303	295	306	439	666
50%	789	733	775	656	396	332	301	288	283	291	393	648
60%	776	717	716	501	368	316	287	282	273	276	360	635
70%	743	691	658	386	356	294	280	274	265	265	328	624
80%	725	622	491	348	315	278	273	270	259	260	315	579
90%	661	487	321	310	283	263	242	257	250	254	300	530
Long Term												
Full Simulation Period[b]	769	729	734	614	445	356	322	310	304	320	419	646
Water Year Types[c]												
Wet (32%)	706	674	583	407	339	314	266	254	267	265	313	555
Above Normal (16%)	828	750	720	598	392	314	293	278	267	261	339	654
Below Normal (13%)	722	665	736	685	541	374	333	311	275	305	425	656
Dry (24%)	785	749	825	725	487	354	338	339	313	343	493	687
Critical (15%)	855	854	923	829	575	480	436	416	431	481	603	761

Alternative 1 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5	-5	23	39	81	-31	-114	-91	-11	-7	-36	-3
20%	13	52	54	74	26	-25	-83	-86	-15	-23	-67	7
30%	40	82	134	106	-17	-38	-89	-98	-25	-11	-28	25
40%	56	81	217	162	-43	-40	-84	-105	-28	-18	2	33
50%	77	149	344	116	-50	-33	-67	-104	-30	1	-14	68
60%	439	387	350	16	-54	-32	-37	-93	-37	-1	-6	80
70%	420	397	343	-63	-13	-38	-30	-83	-38	-6	-9	102
80%	411	348	200	-37	-39	-34	-6	-38	-29	-4	-9	105
90%	360	222	42	-40	-35	-16	15	59	-17	-4	-3	76
Long Term												
Full Simulation Period[b]	189	171	180	44	-18	-34	-49	-67	-24	-9	-18	53
Water Year Types[c]												
Wet (32%)	223	237	187	-21	-34	-7	5	-31	-17	-1	-10	57
Above Normal (16%)	136	94	149	56	-52	-32	-49	-99	-41	-5	0	193
Below Normal (13%)	235	214	230	127	69	-16	-75	-125	-62	-6	2	-32
Dry (24%)	206	165	208	63	-11	-70	-89	-69	-16	-30	-54	21
Critical (15%)	102	82	104	63	-34	-53	-74	-52	2	4	-11	21

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.12.2. Contra Costa Water District Old River Intake Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	896	973	987	875	605	525	521	477	408	434	631	759
20%	843	802	857	767	554	451	461	449	364	368	563	722
30%	790	722	749	667	507	423	424	436	333	339	496	672
40%	754	680	618	571	464	387	402	408	323	325	437	633
50%	713	584	431	540	446	365	368	393	312	289	408	580
60%	337	330	366	486	422	348	324	375	310	277	366	555
70%	323	294	315	449	368	331	310	356	303	270	337	523
80%	314	274	291	385	354	311	279	308	288	264	324	474
90%	301	266	280	349	319	279	227	198	266	258	303	454
Long Term												
Full Simulation Period[b]	580	558	554	570	463	390	370	376	328	329	436	594
Water Year Types[c]												
Wet (32%)	483	436	396	428	373	321	260	284	284	266	323	498
Above Normal (16%)	692	656	571	542	444	346	341	377	308	266	339	460
Below Normal (13%)	487	451	506	558	472	390	408	436	338	311	422	688
Dry (24%)	580	584	618	662	499	424	427	407	329	373	548	666
Critical (15%)	753	772	819	766	610	533	511	468	429	477	614	740

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	902	953	991	870	607	511	476	435	385	474	632	781
20%	862	864	922	821	552	438	416	375	313	360	543	729
30%	821	800	865	735	507	404	387	326	297	346	467	695
40%	806	750	827	696	473	382	360	305	284	320	445	676
50%	784	731	771	659	433	355	320	286	271	291	410	658
60%	758	714	728	511	402	330	300	277	261	276	362	637
70%	743	699	662	428	368	305	289	266	254	269	331	623
80%	720	646	501	395	338	289	281	258	250	262	313	576
90%	660	532	326	317	298	263	263	245	241	254	290	525
Long Term												
Full Simulation Period[b]	767	740	730	612	447	375	347	313	291	330	428	648
Water Year Types[c]												
Wet (32%)	700	684	588	442	354	307	271	247	253	266	309	541
Above Normal (16%)	843	778	724	623	423	322	294	272	258	265	338	659
Below Normal (13%)	722	656	738	672	485	371	360	328	282	325	440	703
Dry (24%)	775	767	829	714	487	410	390	340	291	370	526	682
Critical (15%)	854	852	872	742	574	522	486	443	416	478	609	759

Alternative 3 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	6	-19	4	-4	2	-14	-45	-42	-23	40	1	22
20%	20	61	65	54	-3	-14	-44	-74	-50	-9	-20	7
30%	31	79	116	68	0	-18	-37	-109	-36	7	-29	23
40%	52	70	209	124	8	-5	-42	-103	-39	-5	8	43
50%	71	147	340	119	-13	-10	-49	-107	-42	2	3	78
60%	422	384	362	25	-20	-18	-24	-99	-49	-1	-4	82
70%	420	405	347	-22	0	-26	-21	-90	-49	-2	-6	100
80%	406	372	210	10	-16	-23	2	-50	-38	-3	-11	102
90%	359	266	47	-32	-20	-16	36	47	-25	-4	-13	71
Long Term												
Full Simulation Period[b]	187	182	176	42	-16	-16	-23	-63	-37	1	-8	54
Water Year Types[c]												
Wet (32%)	217	247	192	14	-19	-14	11	-37	-32	-1	-13	43
Above Normal (16%)	151	123	154	81	-21	-24	-48	-105	-51	-2	-1	199
Below Normal (13%)	235	205	232	114	13	-19	-48	-108	-56	14	17	16
Dry (24%)	195	182	211	52	-12	-14	-37	-68	-38	-3	-22	16
Critical (15%)	101	81	53	-24	-36	-11	-25	-25	-14	1	-5	20

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.12.3. Contra Costa Water District Old River Intake Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	896	973	987	875	605	525	521	477	408	434	631	759
20%	843	802	857	767	554	451	461	449	364	368	563	722
30%	790	722	749	667	507	423	424	436	333	339	496	672
40%	754	680	618	571	464	387	402	408	323	325	437	633
50%	713	584	431	540	446	365	368	393	312	289	408	580
60%	337	330	366	486	422	348	324	375	310	277	366	555
70%	323	294	315	449	368	331	310	356	303	270	337	523
80%	314	274	291	385	354	311	279	308	288	264	324	474
90%	301	266	280	349	319	279	227	198	266	258	303	454
Long Term												
Full Simulation Period[b]	580	558	554	570	463	390	370	376	328	329	436	594
Water Year Types[c]												
Wet (32%)	483	436	396	428	373	321	260	284	284	266	323	498
Above Normal (16%)	692	656	571	542	444	346	341	377	308	266	339	460
Below Normal (13%)	487	451	506	558	472	390	408	436	338	311	422	688
Dry (24%)	580	584	618	662	499	424	427	407	329	373	548	666
Critical (15%)	753	772	819	766	610	533	511	468	429	477	614	740

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	912	970	977	879	606	522	555	542	475	446	631	763
20%	853	827	843	781	555	454	520	533	392	376	588	729
30%	801	734	750	674	496	423	460	488	370	350	517	686
40%	766	671	628	571	465	385	407	438	342	330	442	656
50%	709	595	426	540	446	365	375	393	326	290	408	588
60%	340	328	377	484	423	349	323	366	313	277	362	559
70%	324	288	314	449	382	331	310	355	309	271	339	531
80%	314	276	291	385	353	311	275	308	297	263	325	482
90%	301	266	280	350	318	279	228	198	266	259	299	443
Long Term												
Full Simulation Period[b]	584	560	555	572	465	391	386	401	348	332	444	600
Water Year Types[c]												
Wet (32%)	485	443	403	428	376	321	261	278	286	266	322	496
Above Normal (16%)	706	654	563	540	444	346	338	364	313	267	338	459
Below Normal (13%)	486	453	506	557	470	388	398	435	357	315	423	695
Dry (24%)	585	582	615	671	502	425	464	480	372	388	574	685
Critical (15%)	756	772	818	766	617	540	568	546	475	468	623	752

Alternative 5 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**
Probability of Exceedance[a]												
10%	16	-3	-10	5	0	-3	34	65	67	12	-1	4
20%	10	25	-14	14	1	3	60	83	28	7	25	7
30%	11	12	1	6	-11	0	36	52	37	11	21	14
40%	12	-8	10	0	1	-2	5	30	19	5	4	23
50%	-4	11	-5	0	0	0	7	1	14	1	1	8
60%	3	-2	10	-1	1	1	-1	-9	3	0	-3	5
70%	1	-6	-1	0	13	0	0	-2	5	1	2	8
80%	-1	2	0	0	-1	0	-4	0	9	-1	1	8
90%	0	0	0	0	-1	1	1	0	0	1	-4	-11
Long Term												
Full Simulation Period[b]	4	2	0	2	2	1	16	25	21	3	8	7
Water Year Types[c]												
Wet (32%)	1	7	8	0	2	0	0	-6	1	0	0	-2
Above Normal (16%)	14	-1	-8	-2	0	0	-3	-12	5	1	-1	-1
Below Normal (13%)	-1	3	0	-1	-2	-2	-10	-1	20	4	1	8
Dry (24%)	5	-3	-3	9	3	1	37	72	42	15	27	19
Critical (15%)	3	0	-1	0	7	7	58	78	46	-8	9	12

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.12.4. Contra Costa Water District Old River Intake Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	901	968	1,010	914	687	494	407	386	397	427	595	755
20%	856	854	910	841	580	426	377	364	349	345	496	729
30%	830	804	884	773	490	385	335	338	308	328	468	697
40%	810	761	835	734	422	348	318	303	295	306	439	666
50%	789	733	775	656	396	332	301	288	283	291	393	648
60%	776	717	716	501	368	316	287	282	273	276	360	635
70%	743	691	658	386	356	294	280	274	265	265	328	624
80%	725	622	491	348	315	278	273	270	259	260	315	579
90%	661	487	321	310	283	263	242	257	250	254	300	530
Long Term												
Full Simulation Period[b]	769	729	734	614	445	356	322	310	304	320	419	646
Water Year Types[c]												
Wet (32%)	706	674	583	407	339	314	266	254	267	265	313	555
Above Normal (16%)	828	750	720	598	392	314	293	278	267	261	339	654
Below Normal (13%)	722	665	736	685	541	374	333	311	275	305	425	656
Dry (24%)	785	749	825	725	487	354	338	339	313	343	493	687
Critical (15%)	855	854	923	829	575	480	436	416	431	481	603	761

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	896	973	987	875	605	525	521	477	408	434	631	759
20%	843	802	857	767	554	451	461	449	364	368	563	722
30%	790	722	749	667	507	423	424	436	333	339	496	672
40%	754	680	618	571	464	387	402	408	323	325	437	633
50%	713	584	431	540	446	365	368	393	312	289	408	580
60%	337	330	366	486	422	348	324	375	310	277	366	555
70%	323	294	315	449	368	331	310	356	303	270	337	523
80%	314	274	291	385	354	311	279	308	288	264	324	474
90%	301	266	280	349	319	279	227	198	266	258	303	454
Long Term												
Full Simulation Period[b]	580	558	554	570	463	390	370	376	328	329	436	594
Water Year Types[c]												
Wet (32%)	483	436	396	428	373	321	260	284	284	266	323	498
Above Normal (16%)	692	656	571	542	444	346	341	377	308	266	339	460
Below Normal (13%)	487	451	506	558	472	390	408	436	338	311	422	688
Dry (24%)	580	584	618	662	499	424	427	407	329	373	548	666
Critical (15%)	753	772	819	766	610	533	511	468	429	477	614	740

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-5	5	-23	-39	-81	31	114	91	11	7	36	3
20%	-13	-52	-54	-74	-26	25	83	86	15	23	67	-7
30%	-40	-82	-134	-106	17	38	89	98	25	11	28	-25
40%	-56	-81	-217	-162	43	40	84	105	28	18	-2	-33
50%	-77	-149	-344	-116	50	33	67	104	30	-1	14	-68
60%	-439	-387	-350	-16	54	32	37	93	37	1	6	-80
70%	-420	-397	-343	63	13	38	30	83	38	6	9	-102
80%	-411	-348	-200	37	39	34	6	38	29	4	9	-105
90%	-360	-222	-42	40	35	16	-15	-59	17	4	3	-76
Long Term												
Full Simulation Period[b]	-189	-171	-180	-44	18	34	49	67	24	9	18	-53
Water Year Types[c]												
Wet (32%)	-223	-237	-187	21	34	7	-5	31	17	1	10	-57
Above Normal (16%)	-136	-94	-149	-56	52	32	49	99	41	5	0	-193
Below Normal (13%)	-235	-214	-230	-127	-69	16	75	125	62	6	-2	32
Dry (24%)	-206	-165	-208	-63	11	70	89	69	16	30	54	-21
Critical (15%)	-102	-82	-104	-63	34	53	74	52	-2	-4	11	-21

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.12.5. Contra Costa Water District Old River Intake Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	901	968	1,010	914	687	494	407	386	397	427	595	755
20%	856	854	910	841	580	426	377	364	349	345	496	729
30%	830	804	884	773	490	385	335	338	308	328	468	697
40%	810	761	835	734	422	348	318	303	295	306	439	666
50%	789	733	775	656	396	332	301	288	283	291	393	648
60%	776	717	716	501	368	316	287	282	273	276	360	635
70%	743	691	658	386	356	294	280	274	265	265	328	624
80%	725	622	491	348	315	278	273	270	259	260	315	579
90%	661	487	321	310	283	263	242	257	250	254	300	530
Long Term												
Full Simulation Period[b]	769	729	734	614	445	356	322	310	304	320	419	646
Water Year Types[c]												
Wet (32%)	706	674	583	407	339	314	266	254	267	265	313	555
Above Normal (16%)	828	750	720	598	392	314	293	278	267	261	339	654
Below Normal (13%)	722	665	736	685	541	374	333	311	275	305	425	656
Dry (24%)	785	749	825	725	487	354	338	339	313	343	493	687
Critical (15%)	855	854	923	829	575	480	436	416	431	481	603	761

Alternative 3

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	902	953	991	870	607	511	476	435	385	474	632	781
20%	862	864	922	821	552	438	416	375	313	360	543	729
30%	821	800	865	735	507	404	387	326	297	346	467	695
40%	806	750	827	696	473	382	360	305	284	320	445	676
50%	784	731	771	659	433	355	320	286	271	291	410	658
60%	758	714	728	511	402	330	300	277	261	276	362	637
70%	743	699	662	428	368	305	289	266	254	269	331	623
80%	720	646	501	395	338	289	281	258	250	262	313	576
90%	660	532	326	317	298	263	263	245	241	254	290	525
Long Term												
Full Simulation Period[b]	767	740	730	612	447	375	347	313	291	330	428	648
Water Year Types[c]												
Wet (32%)	700	684	588	442	354	307	271	247	253	266	309	541
Above Normal (16%)	843	778	724	623	423	322	294	272	258	265	338	659
Below Normal (13%)	722	656	738	672	485	371	360	328	282	325	440	703
Dry (24%)	775	767	829	714	487	410	390	340	291	370	526	682
Critical (15%)	854	852	872	742	574	522	486	443	416	478	609	759

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1	-15	-19	-44	-79	17	69	49	-13	47	37	25
20%	6	10	12	-21	-29	11	39	11	-36	14	47	-1
30%	-9	-3	-19	-38	17	20	52	-12	-11	17	-1	-2
40%	-4	-10	-8	-38	51	34	42	2	-12	14	6	11
50%	-5	-2	-4	3	37	23	19	-3	-12	0	17	10
60%	-17	-3	12	10	34	14	13	-5	-12	0	2	2
70%	0	8	4	42	13	12	9	-8	-11	4	3	-1
80%	-5	24	10	47	23	11	8	-12	-8	2	-2	-3
90%	-1	45	5	7	15	0	21	-12	-8	0	-10	-5
Long Term												
Full Simulation Period[b]	-2	11	-4	-2	2	19	25	3	-13	10	10	2
Water Year Types[c]												
Wet (32%)	-6	10	5	35	15	-7	5	-7	-15	1	-4	-14
Above Normal (16%)	15	28	5	25	31	9	1	-6	-10	3	-1	5
Below Normal (13%)	0	-9	2	-13	-56	-3	28	16	6	20	15	48
Dry (24%)	-10	17	4	-11	-1	56	52	1	-22	27	33	-5
Critical (15%)	-1	-1	-51	-87	-1	42	49	27	-16	-3	6	-1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.12.6. Contra Costa Water District Old River Intake Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	901	968	1,010	914	687	494	407	386	397	427	595	755
20%	856	854	910	841	580	426	377	364	349	345	496	729
30%	830	804	884	773	490	385	335	338	308	328	468	697
40%	810	761	835	734	422	348	318	303	295	306	439	666
50%	789	733	775	656	396	332	301	288	283	291	393	648
60%	776	717	716	501	368	316	287	282	273	276	360	635
70%	743	691	658	386	356	294	280	274	265	265	328	624
80%	725	622	491	348	315	278	273	270	259	260	315	579
90%	661	487	321	310	283	263	242	257	250	254	300	530
Long Term												
Full Simulation Period[b]	769	729	734	614	445	356	322	310	304	320	419	646
Water Year Types[c]												
Wet (32%)	706	674	583	407	339	314	266	254	267	265	313	555
Above Normal (16%)	828	750	720	598	392	314	293	278	267	261	339	654
Below Normal (13%)	722	665	736	685	541	374	333	311	275	305	425	656
Dry (24%)	785	749	825	725	487	354	338	339	313	343	493	687
Critical (15%)	855	854	923	829	575	480	436	416	431	481	603	761

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	912	970	977	879	606	522	555	542	475	446	631	763
20%	853	827	843	781	555	454	520	533	392	376	588	729
30%	801	734	750	674	496	423	460	488	370	350	517	686
40%	766	671	628	571	465	385	407	438	342	330	442	656
50%	709	595	426	540	446	365	375	393	326	290	408	588
60%	340	328	377	484	423	349	323	366	313	277	362	559
70%	324	288	314	449	382	331	310	355	309	271	339	531
80%	314	276	291	385	353	311	275	308	297	263	325	482
90%	301	266	280	350	318	279	228	198	266	259	299	443
Long Term												
Full Simulation Period[b]	584	560	555	572	465	391	386	401	348	332	444	600
Water Year Types[c]												
Wet (32%)	485	443	403	428	376	321	261	278	286	266	322	496
Above Normal (16%)	706	654	563	540	444	346	338	364	313	267	338	459
Below Normal (13%)	486	453	506	557	470	388	398	435	357	315	423	695
Dry (24%)	585	582	615	671	502	425	464	480	372	388	574	685
Critical (15%)	756	772	818	766	617	540	568	546	475	468	623	752

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11	2	-33	-35	-81	29	148	156	77	19	36	7
20%	-3	-27	-67	-60	-25	28	143	169	43	30	91	0
30%	-29	-70	-134	-99	7	38	125	150	63	21	49	-11
40%	-44	-89	-207	-163	44	37	89	135	47	24	2	-10
50%	-80	-139	-349	-116	50	33	74	105	43	-1	15	-61
60%	-436	-389	-339	-17	55	32	36	84	40	1	3	-76
70%	-420	-403	-344	63	26	38	30	81	43	7	11	-94
80%	-412	-347	-200	37	38	34	2	38	38	4	10	-97
90%	-360	-221	-42	40	35	16	-14	-59	17	5	-1	-87
Long Term												
Full Simulation Period[b]	-184	-169	-179	-42	20	35	64	91	45	12	25	-46
Water Year Types[c]												
Wet (32%)	-221	-230	-179	22	37	7	-5	25	18	2	9	-59
Above Normal (16%)	-122	-96	-157	-58	52	32	46	86	46	6	-1	-195
Below Normal (13%)	-236	-211	-231	-127	-71	14	65	123	82	10	-2	40
Dry (24%)	-200	-167	-211	-54	15	71	126	141	58	45	81	-2
Critical (15%)	-98	-82	-105	-63	41	60	132	130	44	-13	20	-9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

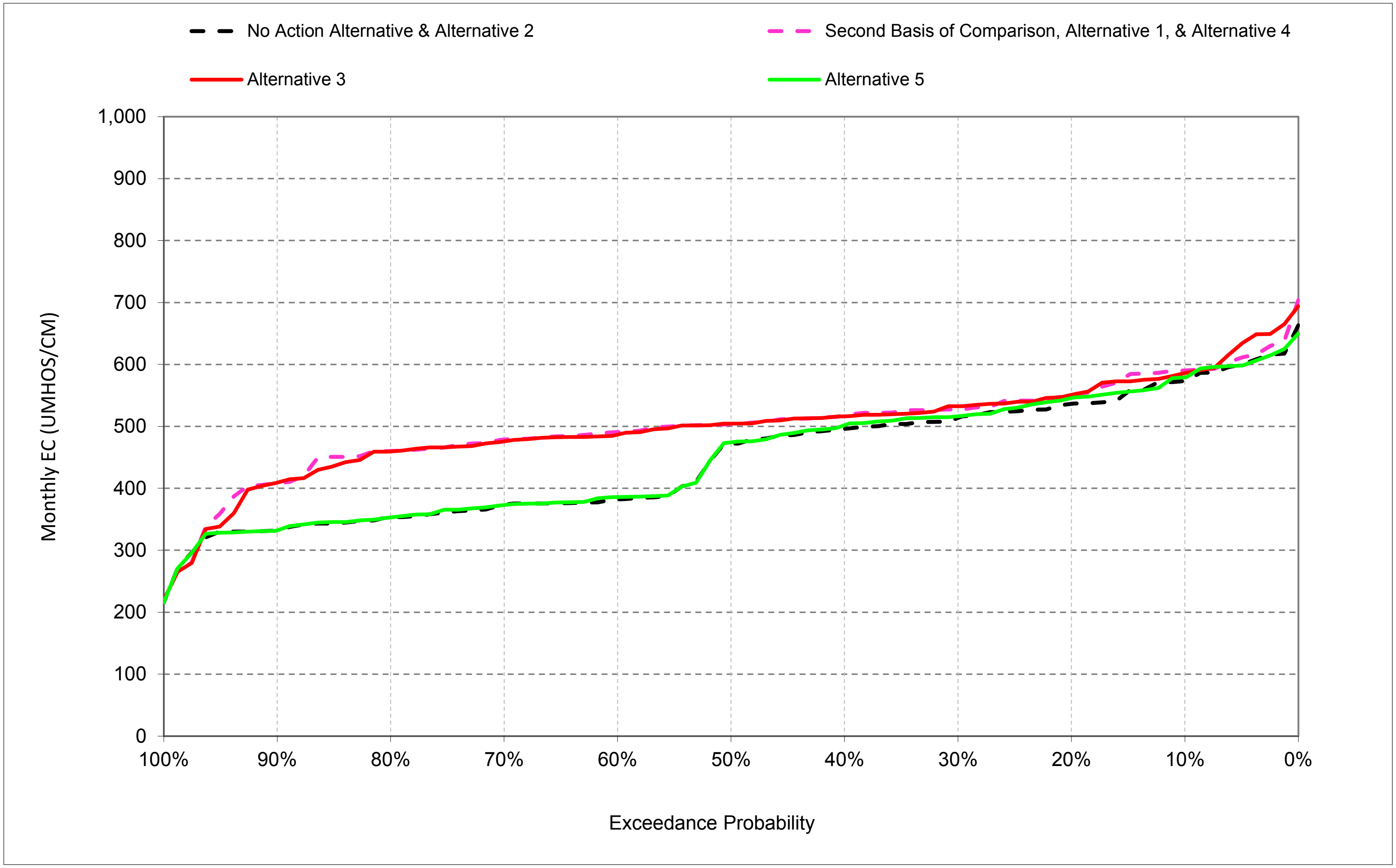
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

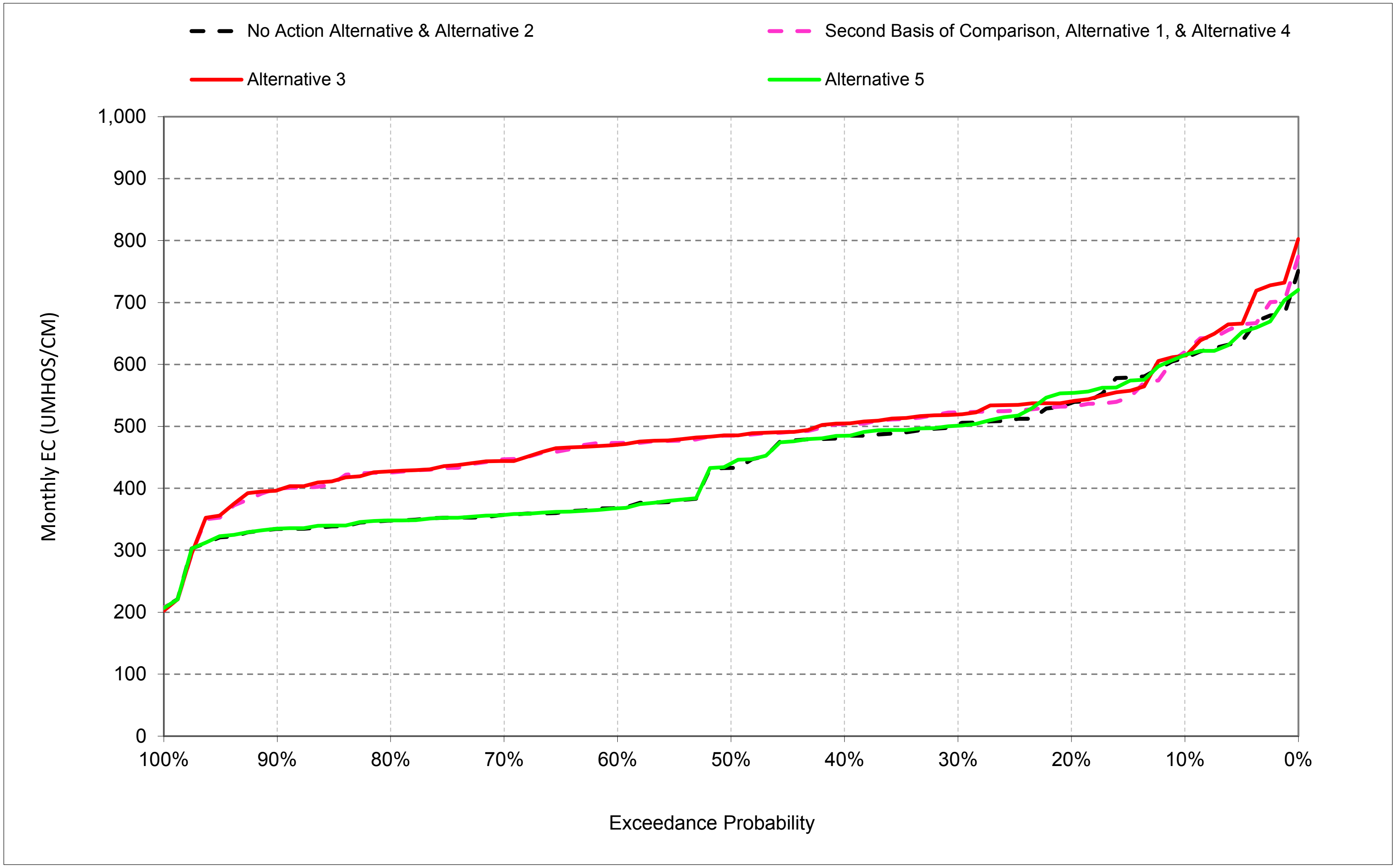
B.13. Contra Costa Water District Victoria Canal Intake Salinity

Figure 6E.B.13.1. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, October



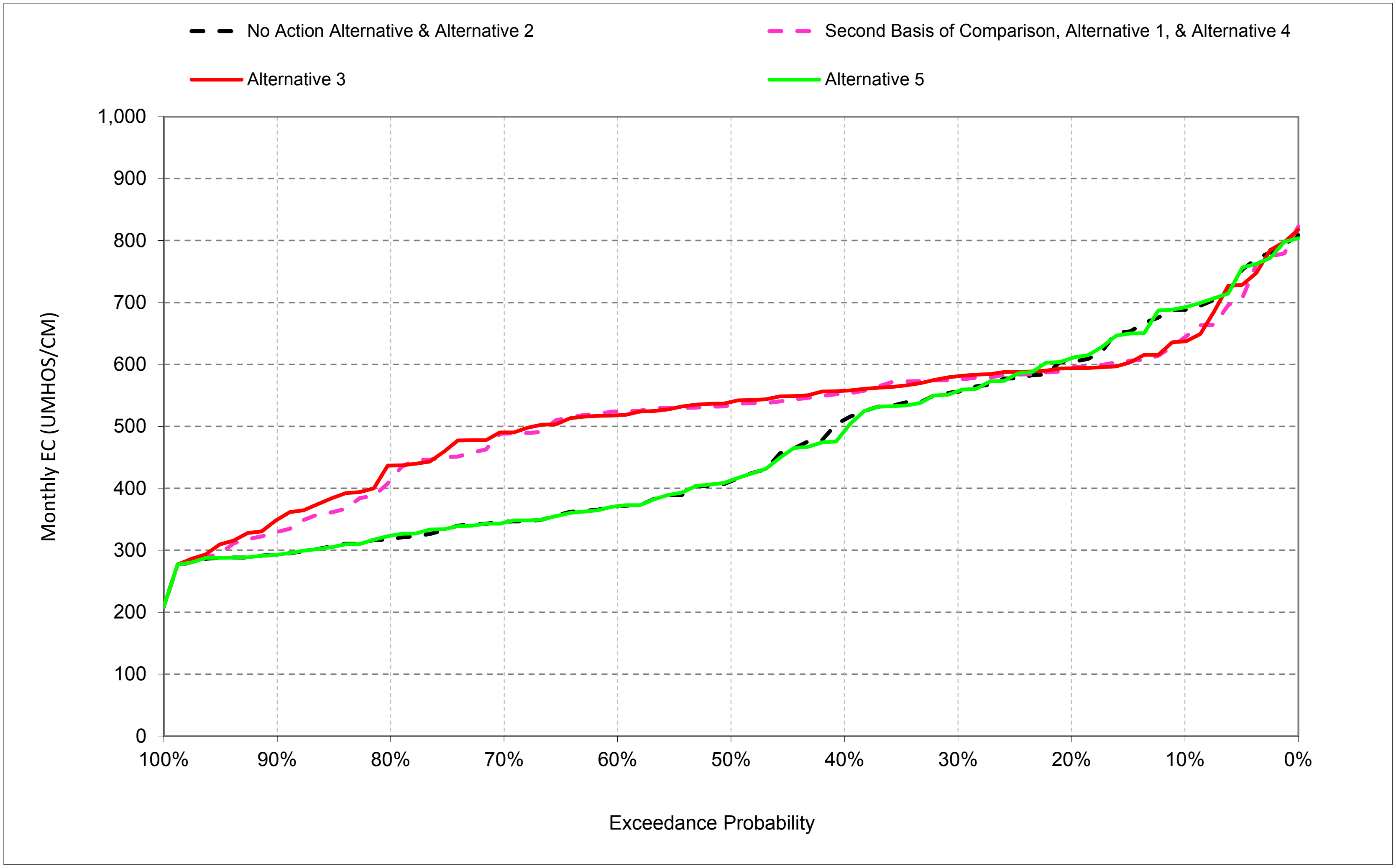
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.2. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, November



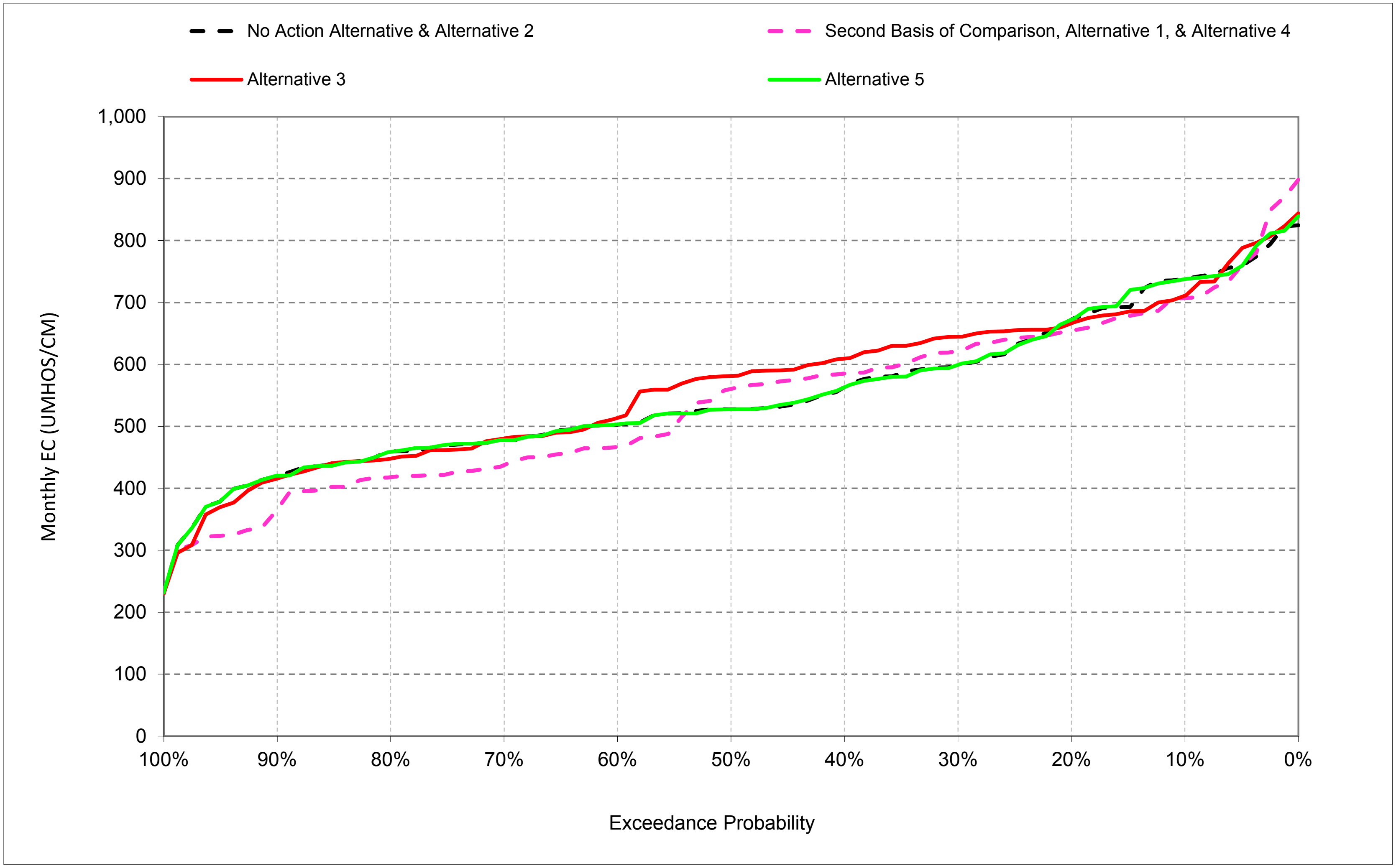
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.3. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, December



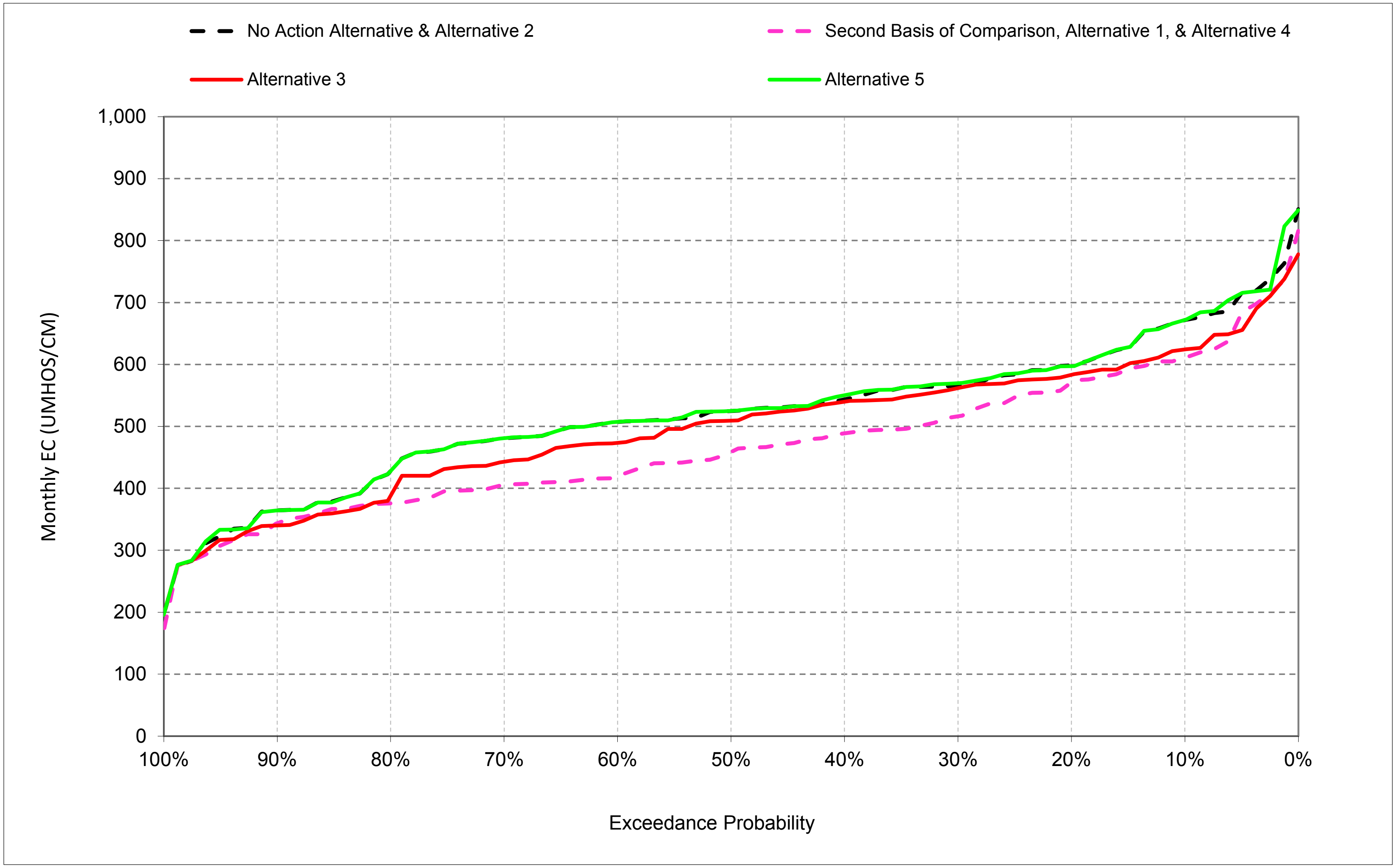
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.4. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, January



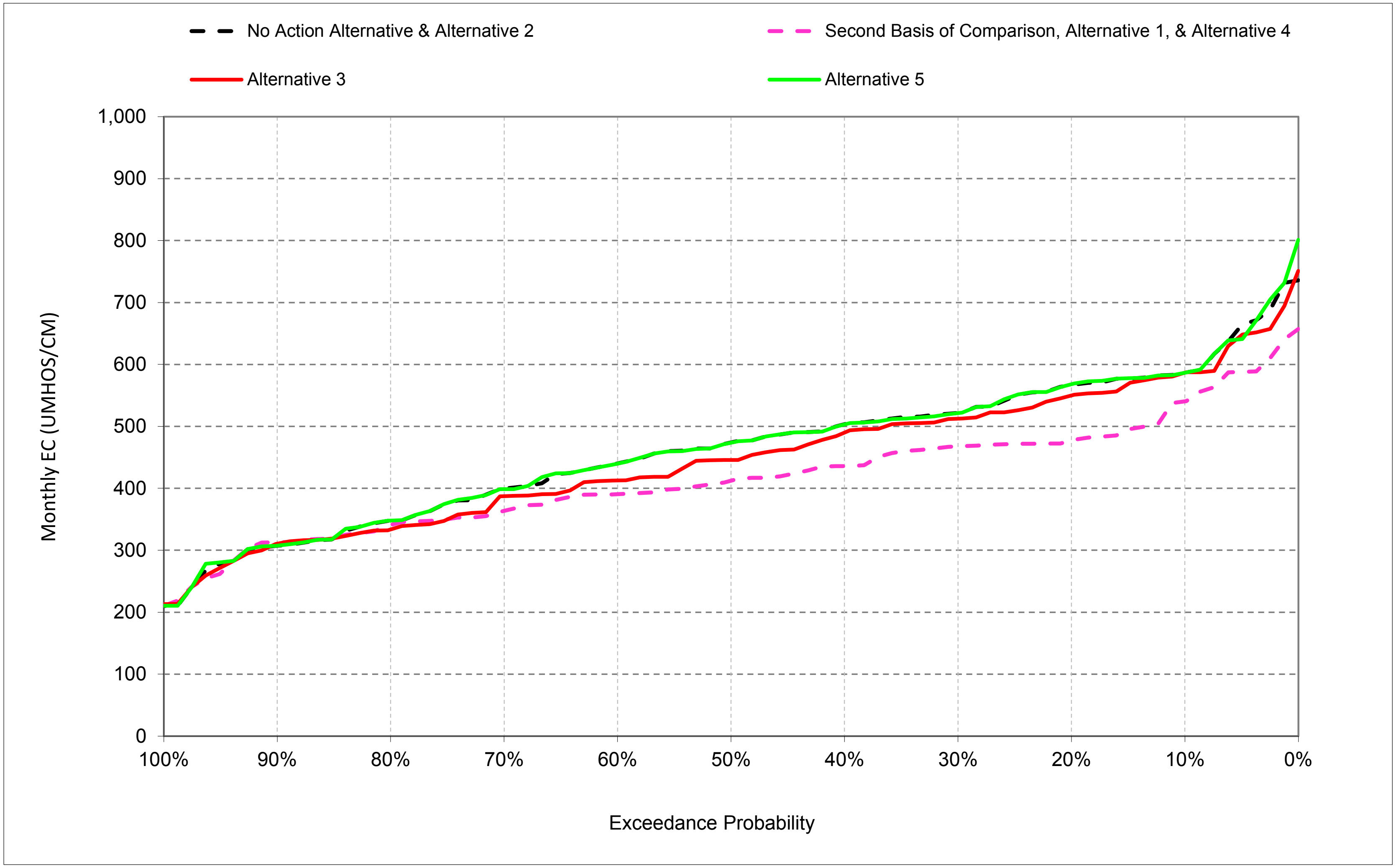
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.5. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, February



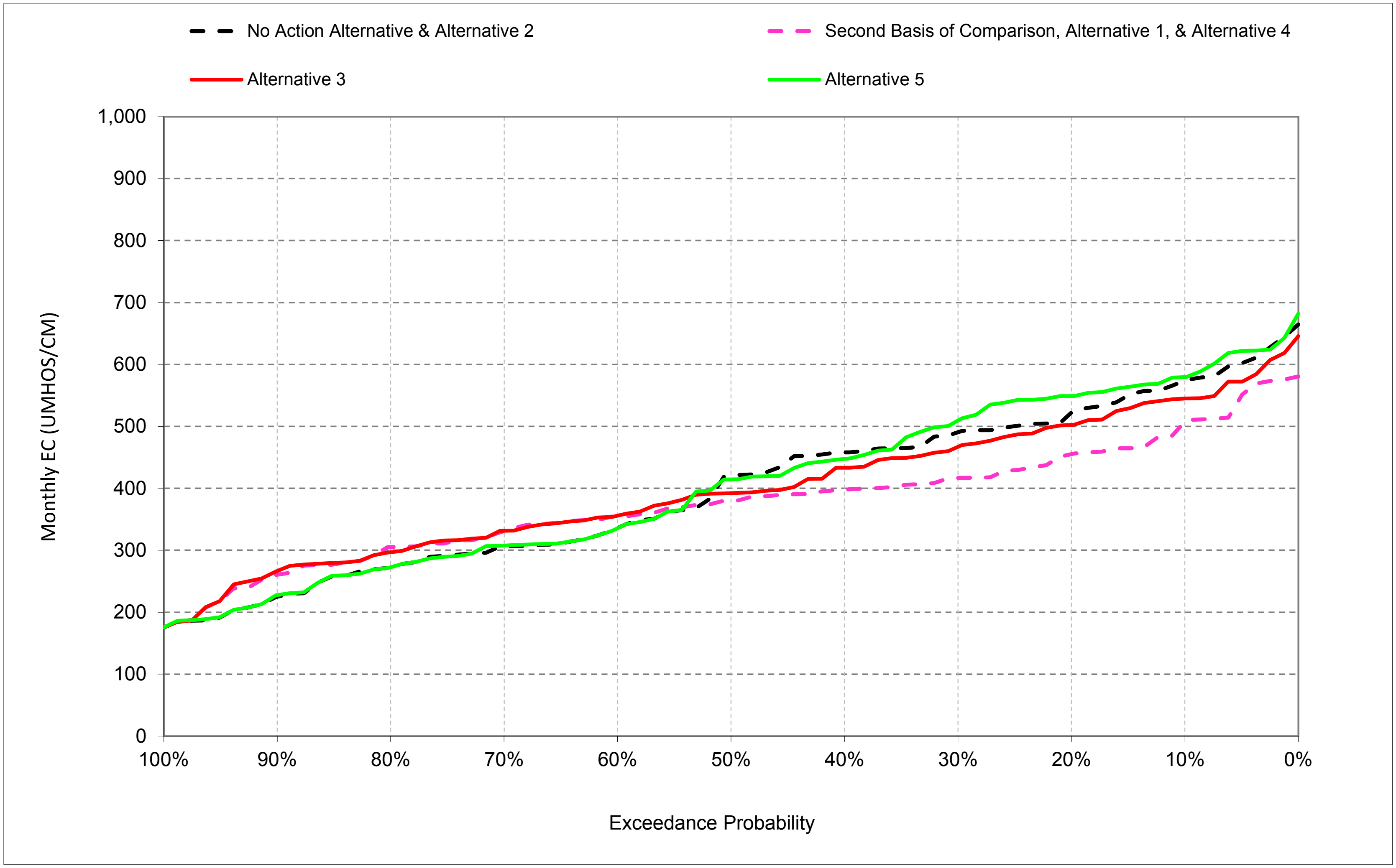
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.6. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, March



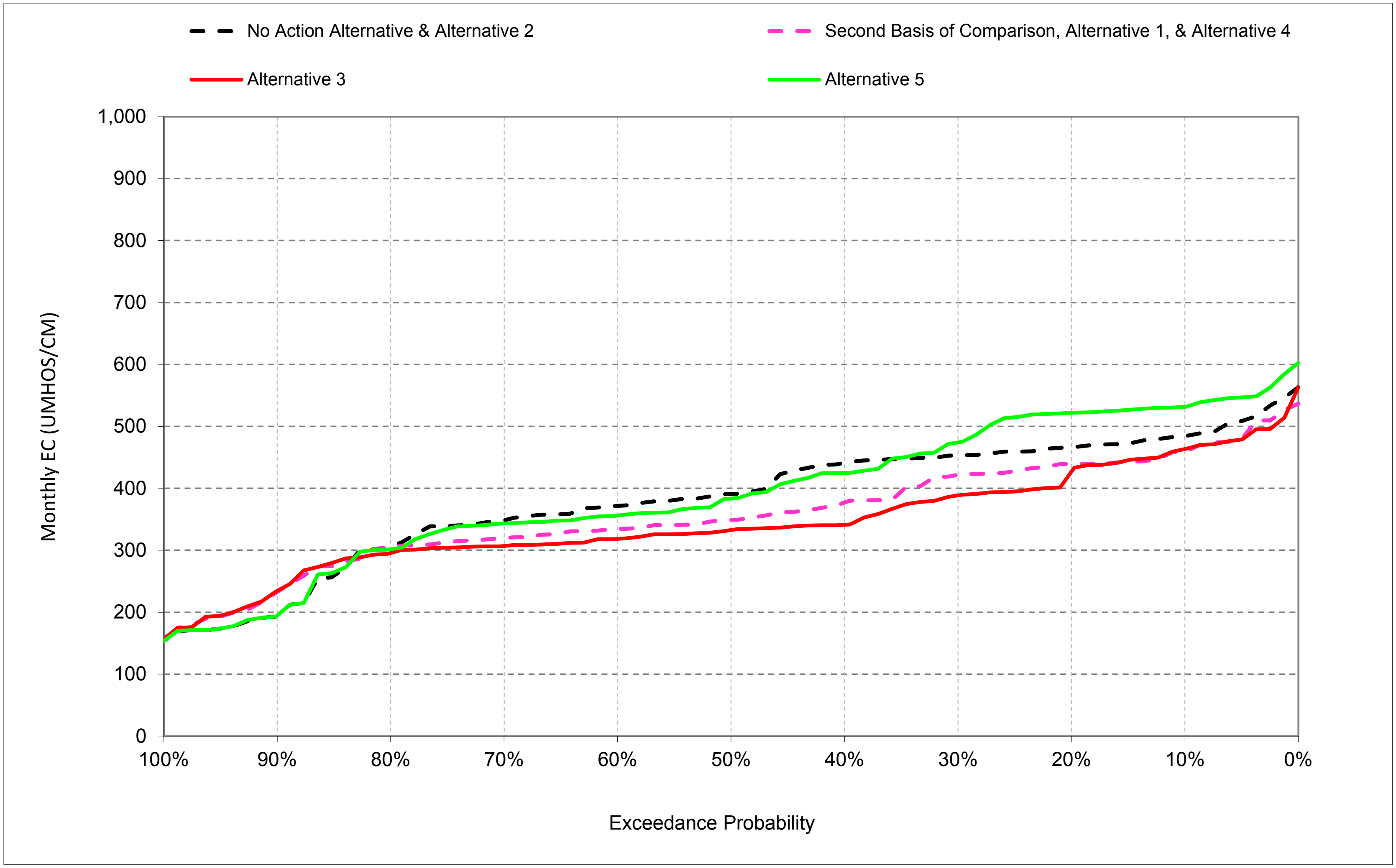
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.7. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, April



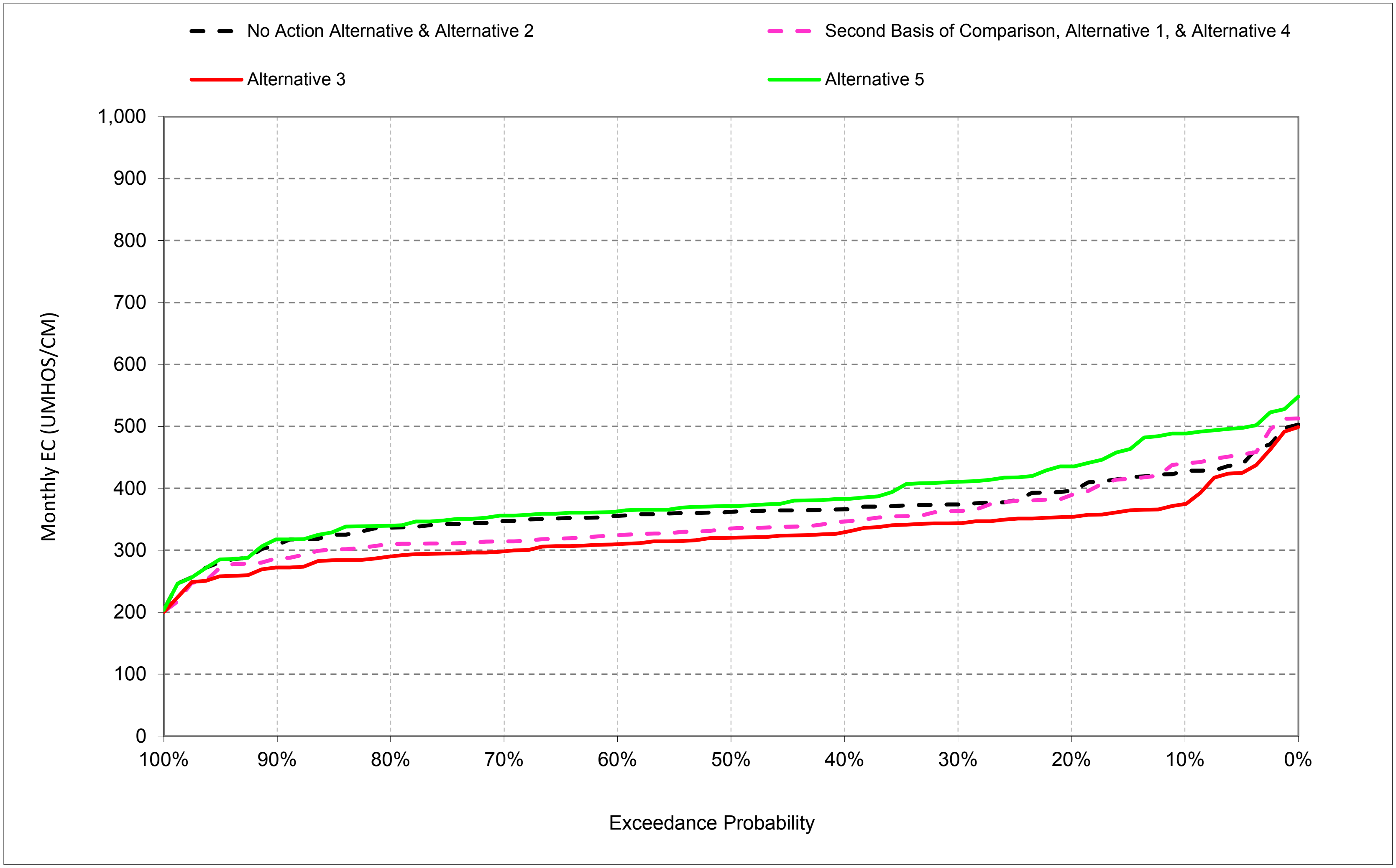
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.8. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, May



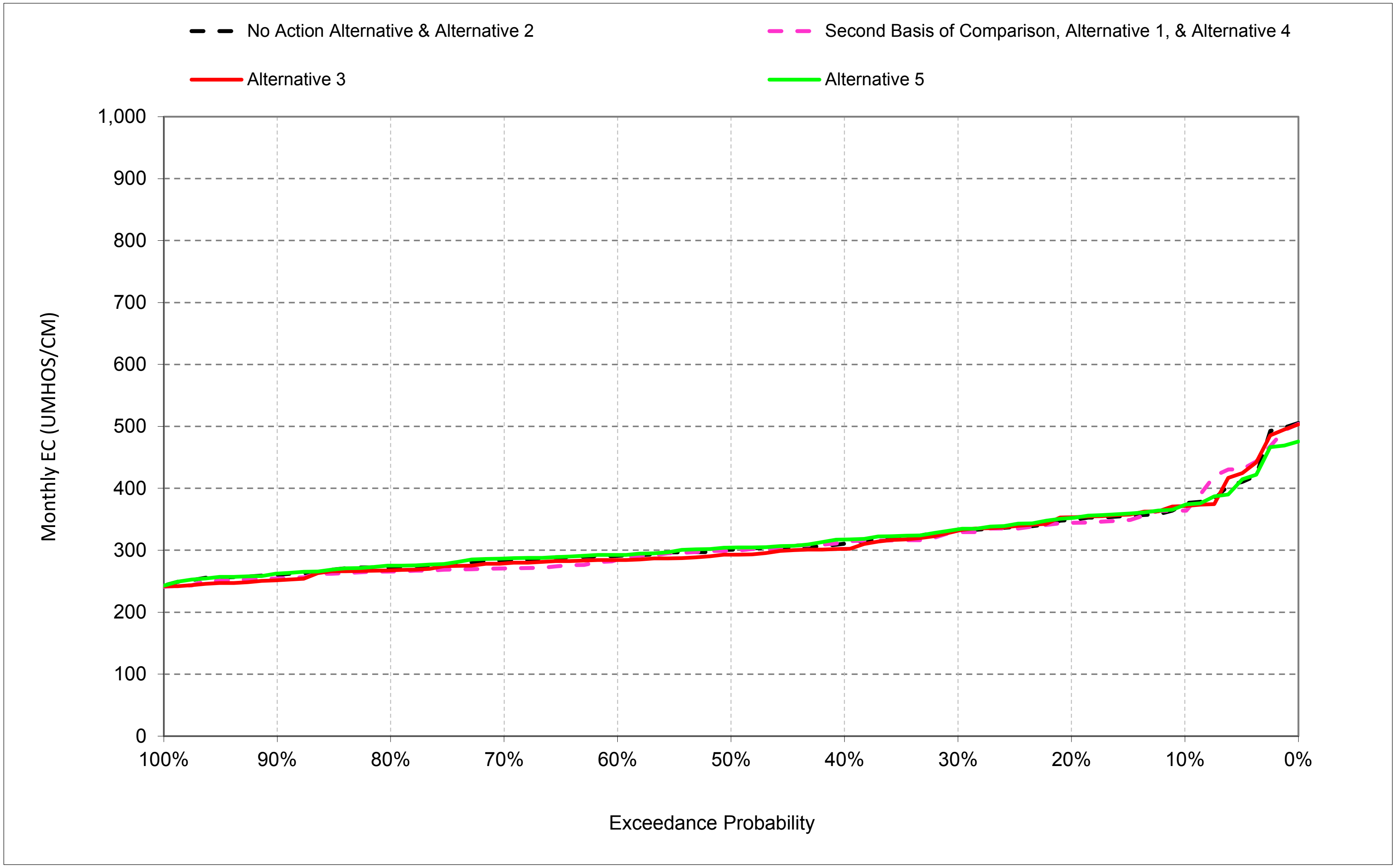
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.9. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, June



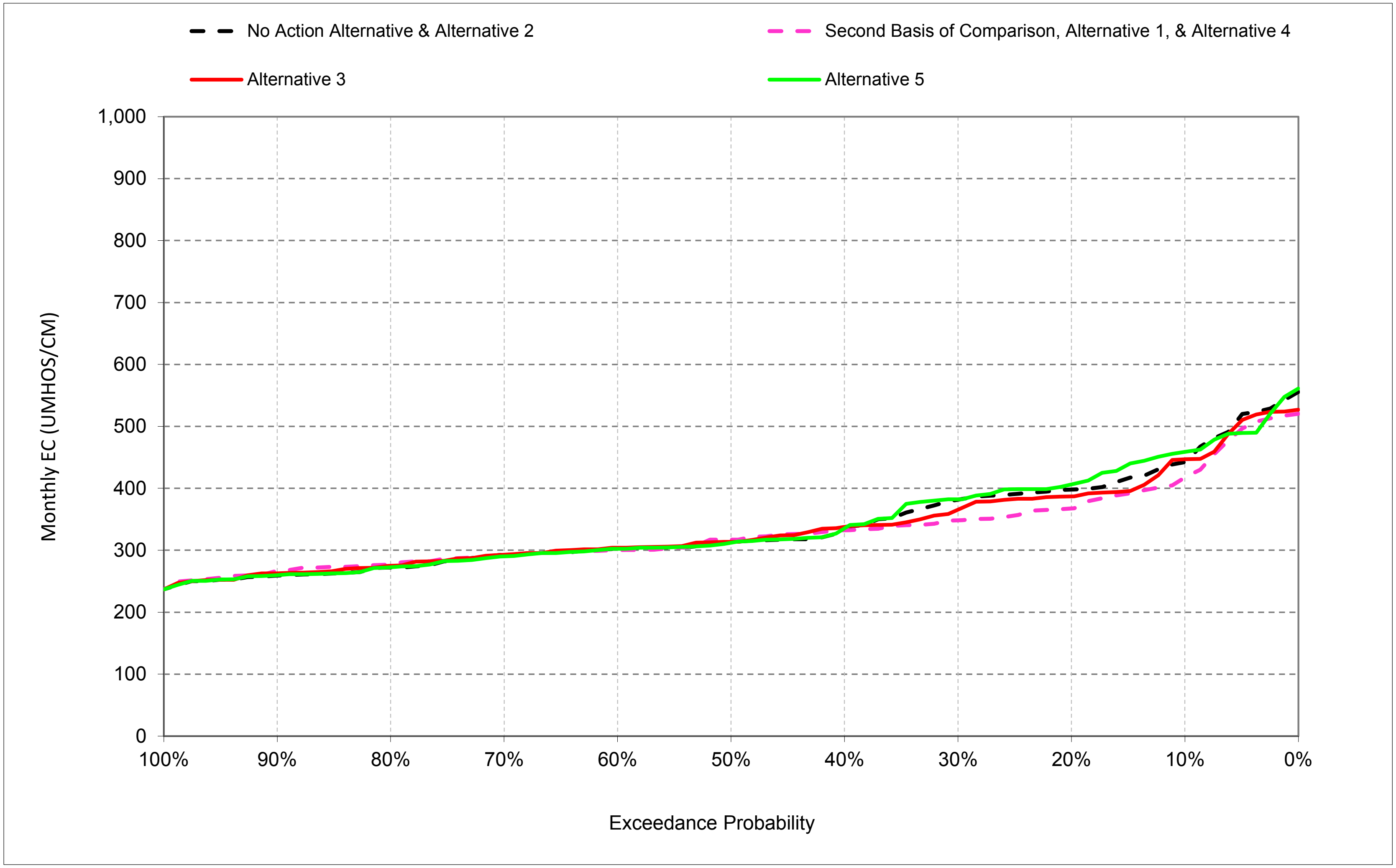
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.10. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, July



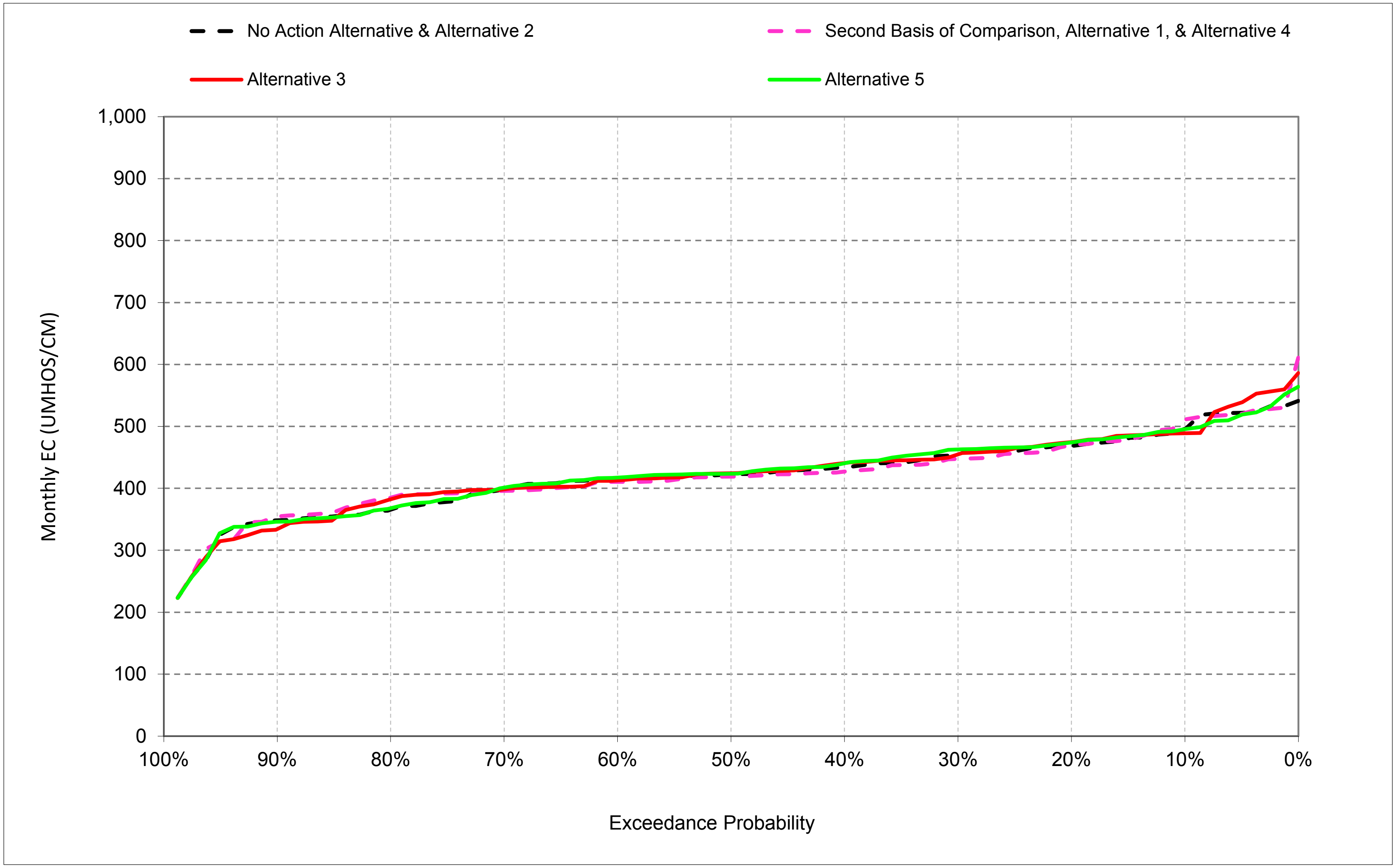
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.11. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.13.12. Contra Costa Victoria Canal Intake Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.13.1. Contra Costa Victoria Canal Intake Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	896	973	987	875	605	525	521	477	408	434	631	759
20%	843	802	857	767	554	451	461	449	364	368	563	722
30%	790	722	749	667	507	423	424	436	333	339	496	672
40%	754	680	618	571	464	387	402	408	323	325	437	633
50%	713	584	431	540	446	365	368	393	312	289	408	580
60%	337	330	366	486	422	348	324	375	310	277	366	555
70%	323	294	315	449	368	331	310	356	303	270	337	523
80%	314	274	291	385	354	311	279	308	288	264	324	474
90%	301	266	280	349	319	279	227	198	266	258	303	454
Long Term												
Full Simulation Period[b]	580	558	554	570	463	390	370	376	328	329	436	594
Water Year Types[c]												
Wet (32%)	483	436	396	428	373	321	260	284	284	266	323	498
Above Normal (16%)	692	656	571	542	444	346	341	377	308	266	339	460
Below Normal (13%)	487	451	506	558	472	390	408	436	338	311	422	688
Dry (24%)	580	584	618	662	499	424	427	407	329	373	548	666
Critical (15%)	753	772	819	766	610	533	511	468	429	477	614	740

Alternative 1

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	901	968	1,010	914	687	494	407	386	397	427	595	755
20%	856	854	910	841	580	426	377	364	349	345	496	729
30%	830	804	884	773	490	385	335	338	308	328	468	697
40%	810	761	835	734	422	348	318	303	295	306	439	666
50%	789	733	775	656	396	332	301	288	283	291	393	648
60%	776	717	716	501	368	316	287	282	273	276	360	635
70%	743	691	658	386	356	294	280	274	265	265	328	624
80%	725	622	491	348	315	278	273	270	259	260	315	579
90%	661	487	321	310	283	263	242	257	250	254	300	530
Long Term												
Full Simulation Period[b]	769	729	734	614	445	356	322	310	304	320	419	646
Water Year Types[c]												
Wet (32%)	706	674	583	407	339	314	266	254	267	265	313	555
Above Normal (16%)	828	750	720	598	392	314	293	278	267	261	339	654
Below Normal (13%)	722	665	736	685	541	374	333	311	275	305	425	656
Dry (24%)	785	749	825	725	487	354	338	339	313	343	493	687
Critical (15%)	855	854	923	829	575	480	436	416	431	481	603	761

Alternative 1 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5	-5	23	39	81	-31	-114	-91	-11	-7	-36	-3
20%	13	52	54	74	26	-25	-83	-86	-15	-23	-67	7
30%	40	82	134	106	-17	-38	-89	-98	-25	-11	-28	25
40%	56	81	217	162	-43	-40	-84	-105	-28	-18	2	33
50%	77	149	344	116	-50	-33	-67	-104	-30	1	-14	68
60%	439	387	350	16	-54	-32	-37	-93	-37	-1	-6	80
70%	420	397	343	-63	-13	-38	-30	-83	-38	-6	-9	102
80%	411	348	200	-37	-39	-34	-6	-38	-29	-4	-9	105
90%	360	222	42	-40	-35	-16	15	59	-17	-4	-3	76
Long Term												
Full Simulation Period[b]	189	171	180	44	-18	-34	-49	-67	-24	-9	-18	53
Water Year Types[c]												
Wet (32%)	223	237	187	-21	-34	-7	5	-31	-17	-1	-10	57
Above Normal (16%)	136	94	149	56	-52	-32	-49	-99	-41	-5	0	193
Below Normal (13%)	235	214	230	127	69	-16	-75	-125	-62	-6	2	-32
Dry (24%)	206	165	208	63	-11	-70	-89	-69	-16	-30	-54	21
Critical (15%)	102	82	104	63	-34	-53	-74	-52	2	4	-11	21

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.13.2. Contra Costa Victoria Canal Intake Salinity, Monthly EC

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	896	973	987	875	605	525	521	477	408	434	631	759
20%	843	802	857	767	554	451	461	449	364	368	563	722
30%	790	722	749	667	507	423	424	436	333	339	496	672
40%	754	680	618	571	464	387	402	408	323	325	437	633
50%	713	584	431	540	446	365	368	393	312	289	408	580
60%	337	330	366	486	422	348	324	375	310	277	366	555
70%	323	294	315	449	368	331	310	356	303	270	337	523
80%	314	274	291	385	354	311	279	308	288	264	324	474
90%	301	266	280	349	319	279	227	198	266	258	303	454
Long Term												
Full Simulation Period[b]	580	558	554	570	463	390	370	376	328	329	436	594
Water Year Types[c]												
Wet (32%)	483	436	396	428	373	321	260	284	284	266	323	498
Above Normal (16%)	692	656	571	542	444	346	341	377	308	266	339	460
Below Normal (13%)	487	451	506	558	472	390	408	436	338	311	422	688
Dry (24%)	580	584	618	662	499	424	427	407	329	373	548	666
Critical (15%)	753	772	819	766	610	533	511	468	429	477	614	740

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	902	953	991	870	607	511	476	435	385	474	632	781
20%	862	864	922	821	552	438	416	375	313	360	543	729
30%	821	800	865	735	507	404	387	326	297	346	467	695
40%	806	750	827	696	473	382	360	305	284	320	445	676
50%	784	731	771	659	433	355	320	286	271	291	410	658
60%	758	714	728	511	402	330	300	277	261	276	362	637
70%	743	699	662	428	368	305	289	266	254	269	331	623
80%	720	646	501	395	338	289	281	258	250	262	313	576
90%	660	532	326	317	298	263	263	245	241	254	290	525
Long Term												
Full Simulation Period[b]	767	740	730	612	447	375	347	313	291	330	428	648
Water Year Types[c]												
Wet (32%)	700	684	588	442	354	307	271	247	253	266	309	541
Above Normal (16%)	843	778	724	623	423	322	294	272	258	265	338	659
Below Normal (13%)	722	656	738	672	485	371	360	328	282	325	440	703
Dry (24%)	775	767	829	714	487	410	390	340	291	370	526	682
Critical (15%)	854	852	872	742	574	522	486	443	416	478	609	759

Alternative 3 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	6	-19	4	-4	2	-14	-45	-42	-23	40	1	22
20%	20	61	65	54	-3	-14	-44	-74	-50	-9	-20	7
30%	31	79	116	68	0	-18	-37	-109	-36	7	-29	23
40%	52	70	209	124	8	-5	-42	-103	-39	-5	8	43
50%	71	147	340	119	-13	-10	-49	-107	-42	2	3	78
60%	422	384	362	25	-20	-18	-24	-99	-49	-1	-4	82
70%	420	405	347	-22	0	-26	-21	-90	-49	-2	-6	100
80%	406	372	210	10	-16	-23	2	-50	-38	-3	-11	102
90%	359	266	47	-32	-20	-16	36	47	-25	-4	-13	71
Long Term												
Full Simulation Period[b]	187	182	176	42	-16	-16	-23	-63	-37	1	-8	54
Water Year Types[c]												
Wet (32%)	217	247	192	14	-19	-14	11	-37	-32	-1	-13	43
Above Normal (16%)	151	123	154	81	-21	-24	-48	-105	-51	-2	-1	199
Below Normal (13%)	235	205	232	114	13	-19	-48	-108	-56	14	17	16
Dry (24%)	195	182	211	52	-12	-14	-37	-68	-38	-3	-22	16
Critical (15%)	101	81	53	-24	-36	-11	-25	-25	-14	1	-5	20

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.13.3. Contra Costa Victoria Canal Intake Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	896	973	987	875	605	525	521	477	408	434	631	759
20%	843	802	857	767	554	451	461	449	364	368	563	722
30%	790	722	749	667	507	423	424	436	333	339	496	672
40%	754	680	618	571	464	387	402	408	323	325	437	633
50%	713	584	431	540	446	365	368	393	312	289	408	580
60%	337	330	366	486	422	348	324	375	310	277	366	555
70%	323	294	315	449	368	331	310	356	303	270	337	523
80%	314	274	291	385	354	311	279	308	288	264	324	474
90%	301	266	280	349	319	279	227	198	266	258	303	454
Long Term												
Full Simulation Period[b]	580	558	554	570	463	390	370	376	328	329	436	594
Water Year Types[c]												
Wet (32%)	483	436	396	428	373	321	260	284	284	266	323	498
Above Normal (16%)	692	656	571	542	444	346	341	377	308	266	339	460
Below Normal (13%)	487	451	506	558	472	390	408	436	338	311	422	688
Dry (24%)	580	584	618	662	499	424	427	407	329	373	548	666
Critical (15%)	753	772	819	766	610	533	511	468	429	477	614	740

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	912	970	977	879	606	522	555	542	475	446	631	763
20%	853	827	843	781	555	454	520	533	392	376	588	729
30%	801	734	750	674	496	423	460	488	370	350	517	686
40%	766	671	628	571	465	385	407	438	342	330	442	656
50%	709	595	426	540	446	365	375	393	326	290	408	588
60%	340	328	377	484	423	349	323	366	313	277	362	559
70%	324	288	314	449	382	331	310	355	309	271	339	531
80%	314	276	291	385	353	311	275	308	297	263	325	482
90%	301	266	280	350	318	279	228	198	266	259	299	443
Long Term												
Full Simulation Period[b]	584	560	555	572	465	391	386	401	348	332	444	600
Water Year Types[c]												
Wet (32%)	485	443	403	428	376	321	261	278	286	266	322	496
Above Normal (16%)	706	654	563	540	444	346	338	364	313	267	338	459
Below Normal (13%)	486	453	506	557	470	388	398	435	357	315	423	695
Dry (24%)	585	582	615	671	502	425	464	480	372	388	574	685
Critical (15%)	756	772	818	766	617	540	568	546	475	468	623	752

Alternative 5 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	16	-3	-10	5	0	-3	34	65	67	12	-1	4
20%	10	25	-14	14	1	3	60	83	28	7	25	7
30%	11	12	1	6	-11	0	36	52	37	11	21	14
40%	12	-8	10	0	1	-2	5	30	19	5	4	23
50%	-4	11	-5	0	0	0	7	1	14	1	1	8
60%	3	-2	10	-1	1	1	-1	-9	3	0	-3	5
70%	1	-6	-1	0	13	0	0	-2	5	1	2	8
80%	-1	2	0	0	-1	0	-4	0	9	-1	1	8
90%	0	0	0	0	-1	1	1	0	0	1	-4	-11
Long Term												
Full Simulation Period[b]	4	2	0	2	2	1	16	25	21	3	8	7
Water Year Types[c]												
Wet (32%)	1	7	8	0	2	0	0	-6	1	0	0	-2
Above Normal (16%)	14	-1	-8	-2	0	0	-3	-12	5	1	-1	-1
Below Normal (13%)	-1	3	0	-1	-2	-2	-10	-1	20	4	1	8
Dry (24%)	5	-3	-3	9	3	1	37	72	42	15	27	19
Critical (15%)	3	0	-1	0	7	7	58	78	46	-8	9	12

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.13.4. Contra Costa Victoria Canal Intake Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	901	968	1,010	914	687	494	407	386	397	427	595	755
20%	856	854	910	841	580	426	377	364	349	345	496	729
30%	830	804	884	773	490	385	335	338	308	328	468	697
40%	810	761	835	734	422	348	318	303	295	306	439	666
50%	789	733	775	656	396	332	301	288	283	291	393	648
60%	776	717	716	501	368	316	287	282	273	276	360	635
70%	743	691	658	386	356	294	280	274	265	265	328	624
80%	725	622	491	348	315	278	273	270	259	260	315	579
90%	661	487	321	310	283	263	242	257	250	254	300	530
Long Term												
Full Simulation Period[b]	769	729	734	614	445	356	322	310	304	320	419	646
Water Year Types[c]												
Wet (32%)	706	674	583	407	339	314	266	254	267	265	313	555
Above Normal (16%)	828	750	720	598	392	314	293	278	267	261	339	654
Below Normal (13%)	722	665	736	685	541	374	333	311	275	305	425	656
Dry (24%)	785	749	825	725	487	354	338	339	313	343	493	687
Critical (15%)	855	854	923	829	575	480	436	416	431	481	603	761

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	896	973	987	875	605	525	521	477	408	434	631	759
20%	843	802	857	767	554	451	461	449	364	368	563	722
30%	790	722	749	667	507	423	424	436	333	339	496	672
40%	754	680	618	571	464	387	402	408	323	325	437	633
50%	713	584	431	540	446	365	368	393	312	289	408	580
60%	337	330	366	486	422	348	324	375	310	277	366	555
70%	323	294	315	449	368	331	310	356	303	270	337	523
80%	314	274	291	385	354	311	279	308	288	264	324	474
90%	301	266	280	349	319	279	227	198	266	258	303	454
Long Term												
Full Simulation Period[b]	580	558	554	570	463	390	370	376	328	329	436	594
Water Year Types[c]												
Wet (32%)	483	436	396	428	373	321	260	284	284	266	323	498
Above Normal (16%)	692	656	571	542	444	346	341	377	308	266	339	460
Below Normal (13%)	487	451	506	558	472	390	408	436	338	311	422	688
Dry (24%)	580	584	618	662	499	424	427	407	329	373	548	666
Critical (15%)	753	772	819	766	610	533	511	468	429	477	614	740

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-5	5	-23	-39	-81	31	114	91	11	7	36	3
20%	-13	-52	-54	-74	-26	25	83	86	15	23	67	-7
30%	-40	-82	-134	-106	17	38	89	98	25	11	28	-25
40%	-56	-81	-217	-162	43	40	84	105	28	18	-2	-33
50%	-77	-149	-344	-116	50	33	67	104	30	-1	14	-68
60%	-439	-387	-350	-16	54	32	37	93	37	1	6	-80
70%	-420	-397	-343	63	13	38	30	83	38	6	9	-102
80%	-411	-348	-200	37	39	34	6	38	29	4	9	-105
90%	-360	-222	-42	40	35	16	-15	-59	17	4	3	-76
Long Term												
Full Simulation Period[b]	-189	-171	-180	-44	18	34	49	67	24	9	18	-53
Water Year Types[c]												
Wet (32%)	-223	-237	-187	21	34	7	-5	31	17	1	10	-57
Above Normal (16%)	-136	-94	-149	-56	52	32	49	99	41	5	0	-193
Below Normal (13%)	-235	-214	-230	-127	-69	16	75	125	62	6	-2	32
Dry (24%)	-206	-165	-208	-63	11	70	89	69	16	30	54	-21
Critical (15%)	-102	-82	-104	-63	34	53	74	52	-2	-4	11	-21

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.13.5. Contra Costa Victoria Canal Intake Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	901	968	1,010	914	687	494	407	386	397	427	595	755
20%	856	854	910	841	580	426	377	364	349	345	496	729
30%	830	804	884	773	490	385	335	338	308	328	468	697
40%	810	761	835	734	422	348	318	303	295	306	439	666
50%	789	733	775	656	396	332	301	288	283	291	393	648
60%	776	717	716	501	368	316	287	282	273	276	360	635
70%	743	691	658	386	356	294	280	274	265	265	328	624
80%	725	622	491	348	315	278	273	270	259	260	315	579
90%	661	487	321	310	283	263	242	257	250	254	300	530
Long Term												
Full Simulation Period[b]	769	729	734	614	445	356	322	310	304	320	419	646
Water Year Types[c]												
Wet (32%)	706	674	583	407	339	314	266	254	267	265	313	555
Above Normal (16%)	828	750	720	598	392	314	293	278	267	261	339	654
Below Normal (13%)	722	665	736	685	541	374	333	311	275	305	425	656
Dry (24%)	785	749	825	725	487	354	338	339	313	343	493	687
Critical (15%)	855	854	923	829	575	480	436	416	431	481	603	761

Alternative 3

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	902	953	991	870	607	511	476	435	385	474	632	781
20%	862	864	922	821	552	438	416	375	313	360	543	729
30%	821	800	865	735	507	404	387	326	297	346	467	695
40%	806	750	827	696	473	382	360	305	284	320	445	676
50%	784	731	771	659	433	355	320	286	271	291	410	658
60%	758	714	728	511	402	330	300	277	261	276	362	637
70%	743	699	662	428	368	305	289	266	254	269	331	623
80%	720	646	501	395	338	289	281	258	250	262	313	576
90%	660	532	326	317	298	263	263	245	241	254	290	525
Long Term												
Full Simulation Period[b]	767	740	730	612	447	375	347	313	291	330	428	648
Water Year Types[c]												
Wet (32%)	700	684	588	442	354	307	271	247	253	266	309	541
Above Normal (16%)	843	778	724	623	423	322	294	272	258	265	338	659
Below Normal (13%)	722	656	738	672	485	371	360	328	282	325	440	703
Dry (24%)	775	767	829	714	487	410	390	340	291	370	526	682
Critical (15%)	854	852	872	742	574	522	486	443	416	478	609	759

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1	-15	-19	-44	-79	17	69	49	-13	47	37	25
20%	6	10	12	-21	-29	11	39	11	-36	14	47	-1
30%	-9	-3	-19	-38	17	20	52	-12	-11	17	-1	-2
40%	-4	-10	-8	-38	51	34	42	2	-12	14	6	11
50%	-5	-2	-4	3	37	23	19	-3	-12	0	17	10
60%	-17	-3	12	10	34	14	13	-5	-12	0	2	2
70%	0	8	4	42	13	12	9	-8	-11	4	3	-1
80%	-5	24	10	47	23	11	8	-12	-8	2	-2	-3
90%	-1	45	5	7	15	0	21	-12	-8	0	-10	-5
Long Term												
Full Simulation Period[b]	-2	11	-4	-2	2	19	25	3	-13	10	10	2
Water Year Types[c]												
Wet (32%)	-6	10	5	35	15	-7	5	-7	-15	1	-4	-14
Above Normal (16%)	15	28	5	25	31	9	1	-6	-10	3	-1	5
Below Normal (13%)	0	-9	2	-13	-56	-3	28	16	6	20	15	48
Dry (24%)	-10	17	4	-11	-1	56	52	1	-22	27	33	-5
Critical (15%)	-1	-1	-51	-87	-1	42	49	27	-16	-3	6	-1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.13.6. Contra Costa Victoria Canal Intake Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	901	968	1,010	914	687	494	407	386	397	427	595	755
20%	856	854	910	841	580	426	377	364	349	345	496	729
30%	830	804	884	773	490	385	335	338	308	328	468	697
40%	810	761	835	734	422	348	318	303	295	306	439	666
50%	789	733	775	656	396	332	301	288	283	291	393	648
60%	776	717	716	501	368	316	287	282	273	276	360	635
70%	743	691	658	386	356	294	280	274	265	265	328	624
80%	725	622	491	348	315	278	273	270	259	260	315	579
90%	661	487	321	310	283	263	242	257	250	254	300	530
Long Term												
Full Simulation Period[b]	769	729	734	614	445	356	322	310	304	320	419	646
Water Year Types[c]												
Wet (32%)	706	674	583	407	339	314	266	254	267	265	313	555
Above Normal (16%)	828	750	720	598	392	314	293	278	267	261	339	654
Below Normal (13%)	722	665	736	685	541	374	333	311	275	305	425	656
Dry (24%)	785	749	825	725	487	354	338	339	313	343	493	687
Critical (15%)	855	854	923	829	575	480	436	416	431	481	603	761

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	912	970	977	879	606	522	555	542	475	446	631	763
20%	853	827	843	781	555	454	520	533	392	376	588	729
30%	801	734	750	674	496	423	460	488	370	350	517	686
40%	766	671	628	571	465	385	407	438	342	330	442	656
50%	709	595	426	540	446	365	375	393	326	290	408	588
60%	340	328	377	484	423	349	323	366	313	277	362	559
70%	324	288	314	449	382	331	310	355	309	271	339	531
80%	314	276	291	385	353	311	275	308	297	263	325	482
90%	301	266	280	350	318	279	228	198	266	259	299	443
Long Term												
Full Simulation Period[b]	584	560	555	572	465	391	386	401	348	332	444	600
Water Year Types[c]												
Wet (32%)	485	443	403	428	376	321	261	278	286	266	322	496
Above Normal (16%)	706	654	563	540	444	346	338	364	313	267	338	459
Below Normal (13%)	486	453	506	557	470	388	398	435	357	315	423	695
Dry (24%)	585	582	615	671	502	425	464	480	372	388	574	685
Critical (15%)	756	772	818	766	617	540	568	546	475	468	623	752

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11	2	-33	-35	-81	29	148	156	77	19	36	7
20%	-3	-27	-67	-60	-25	28	143	169	43	30	91	0
30%	-29	-70	-134	-99	7	38	125	150	63	21	49	-11
40%	-44	-89	-207	-163	44	37	89	135	47	24	2	-10
50%	-80	-139	-349	-116	50	33	74	105	43	-1	15	-61
60%	-436	-389	-339	-17	55	32	36	84	40	1	3	-76
70%	-420	-403	-344	63	26	38	30	81	43	7	11	-94
80%	-412	-347	-200	37	38	34	2	38	38	4	10	-97
90%	-360	-221	-42	40	35	16	-14	-59	17	5	-1	-87
Long Term												
Full Simulation Period[b]	-184	-169	-179	-42	20	35	64	91	45	12	25	-46
Water Year Types[c]												
Wet (32%)	-221	-230	-179	22	37	7	-5	25	18	2	9	-59
Above Normal (16%)	-122	-96	-157	-58	52	32	46	86	46	6	-1	-195
Below Normal (13%)	-236	-211	-231	-127	-71	14	65	123	82	10	-2	40
Dry (24%)	-200	-167	-211	-54	15	71	126	141	58	45	81	-2
Critical (15%)	-98	-82	-105	-63	41	60	132	130	44	-13	20	-9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

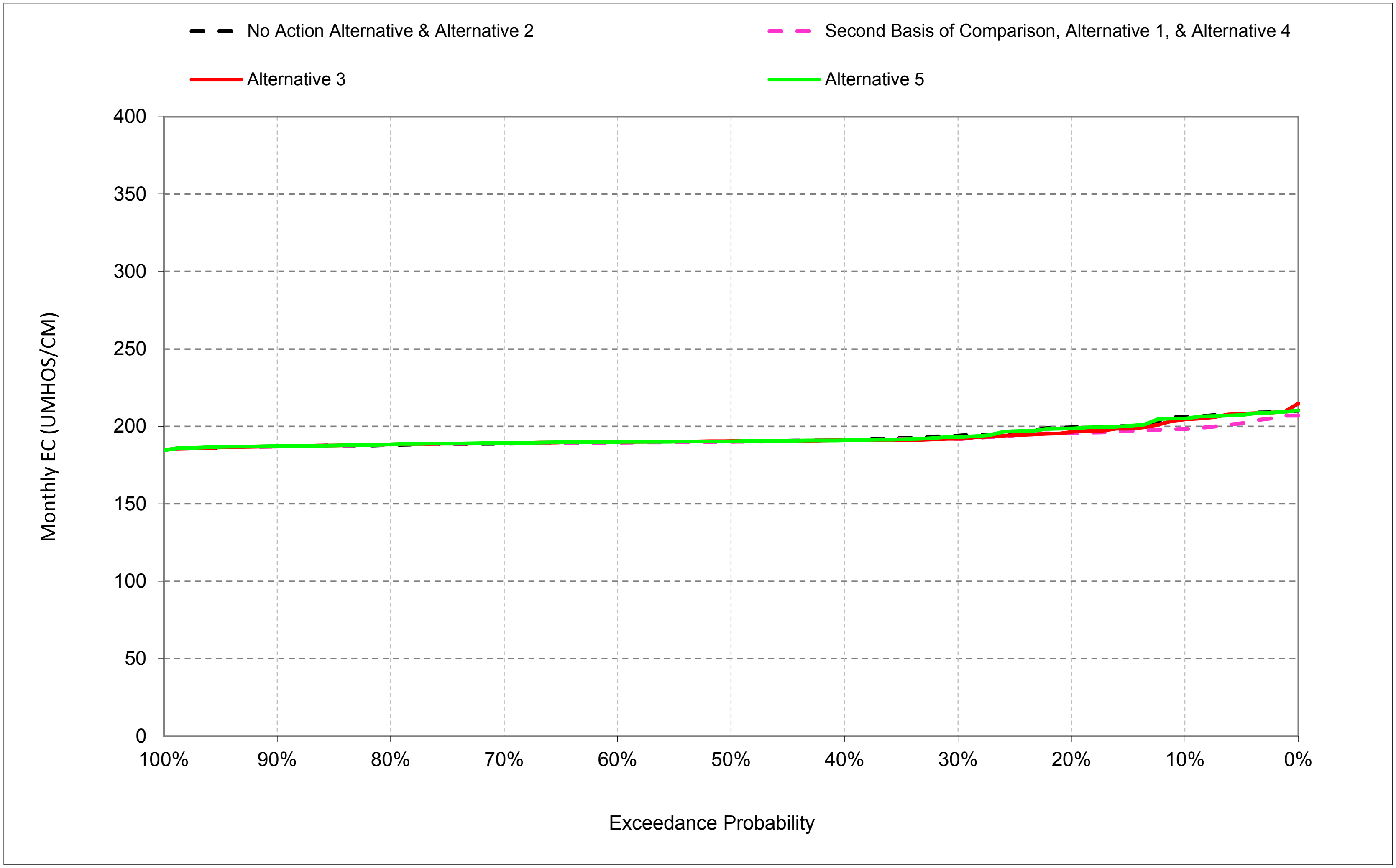
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

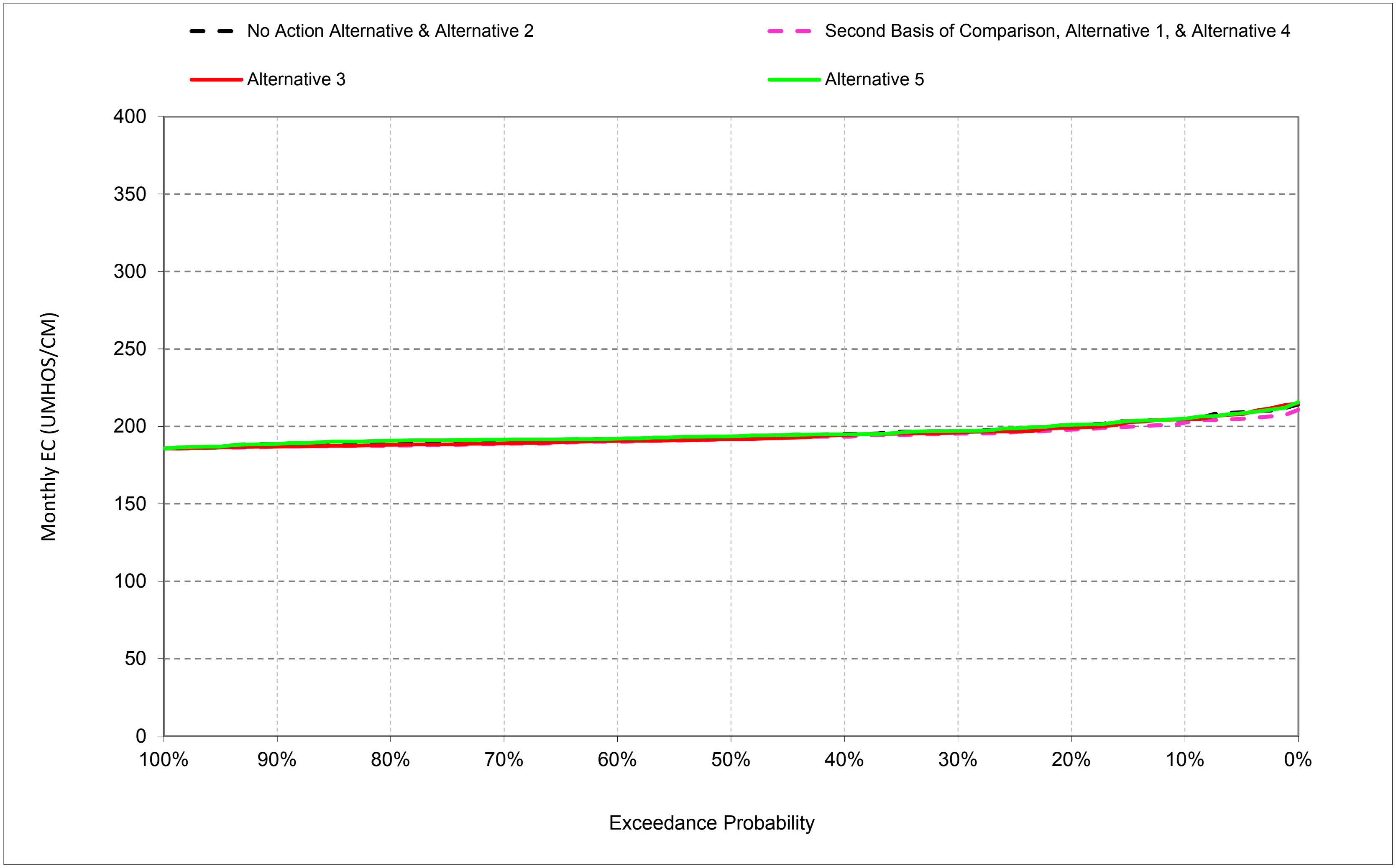
B.14. Barker Slough North Bay Aqueduct Intake Salinity

Figure 6E.B.14.1. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, October



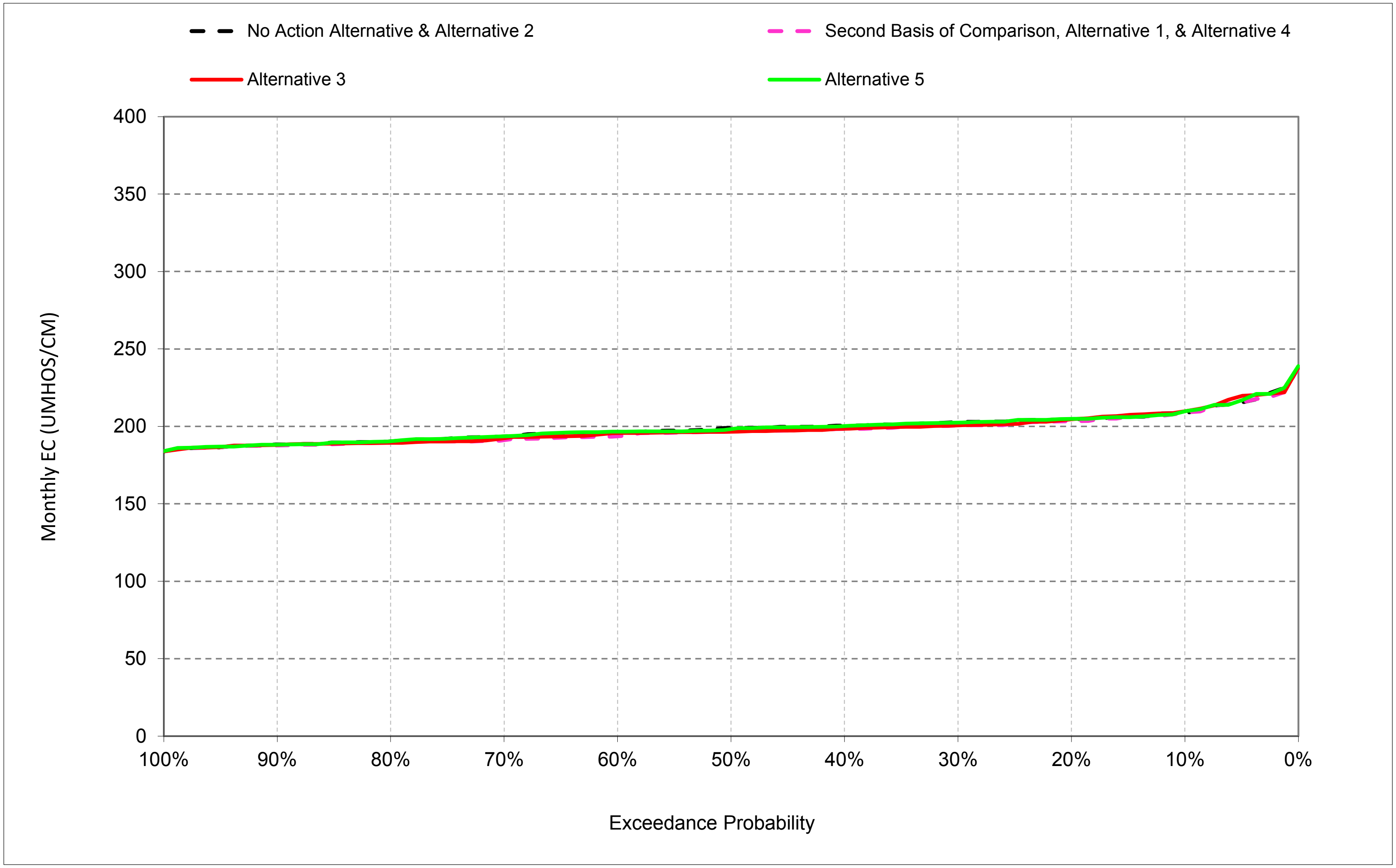
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.2. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, November



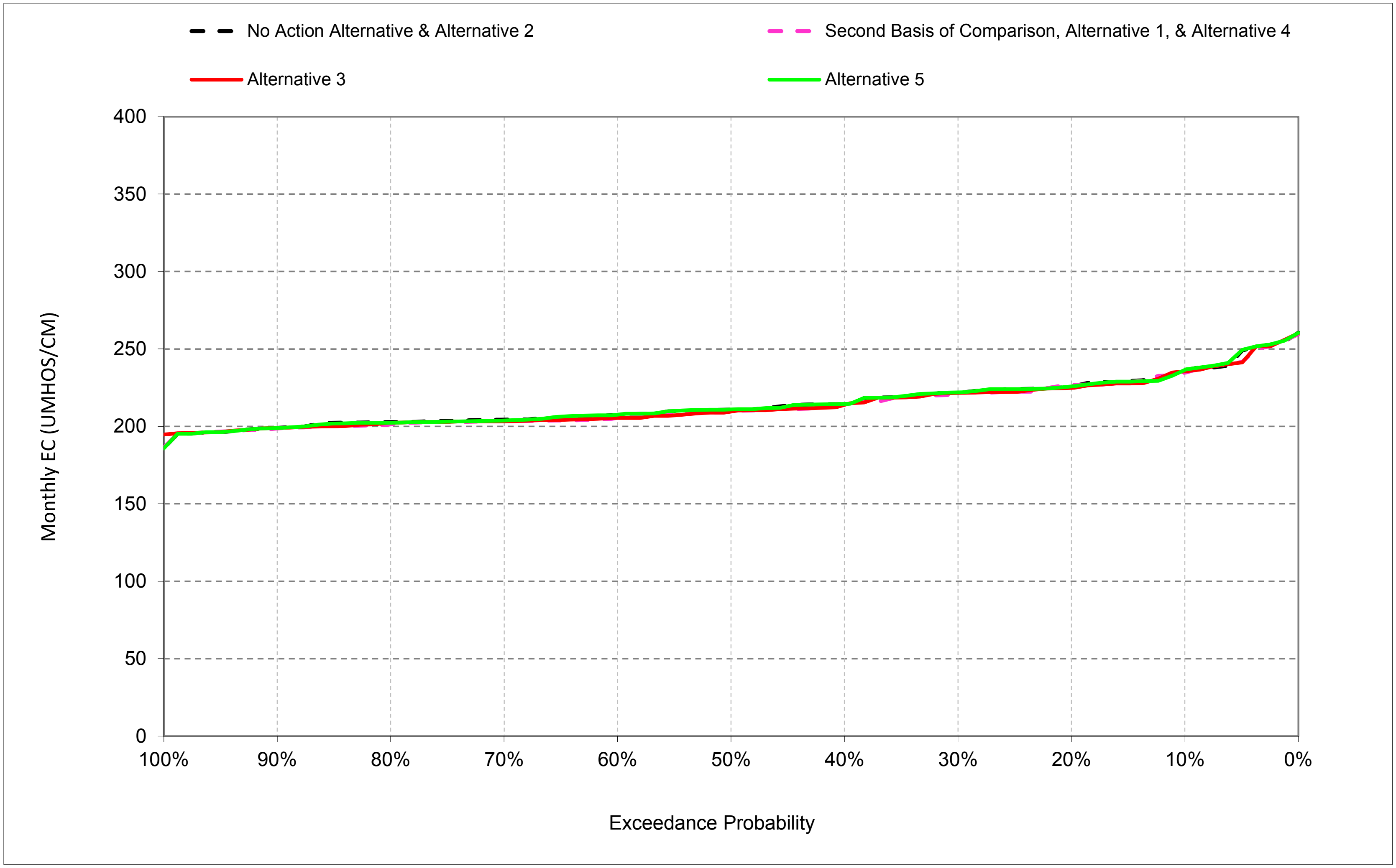
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.3. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, December



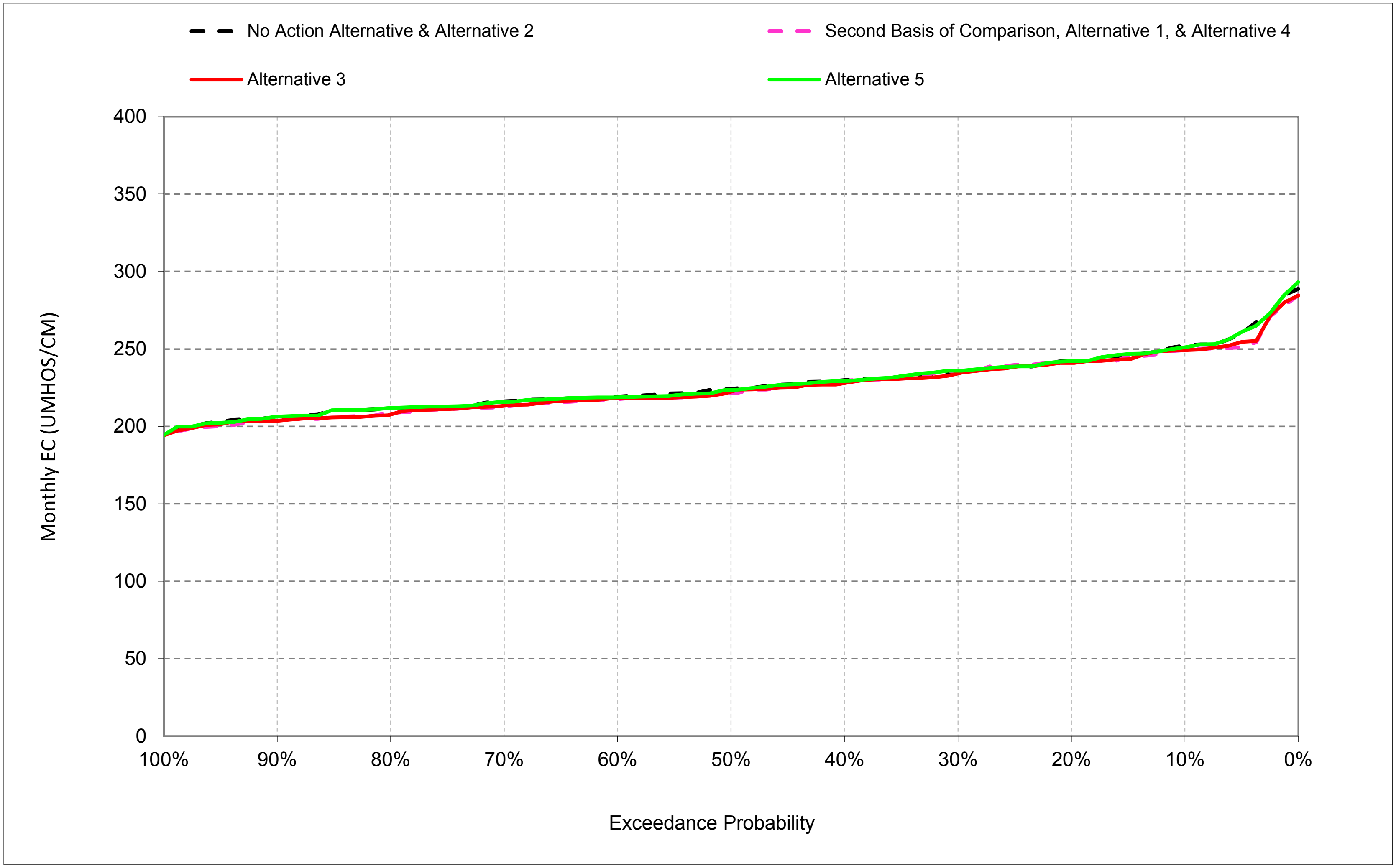
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.4. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, January



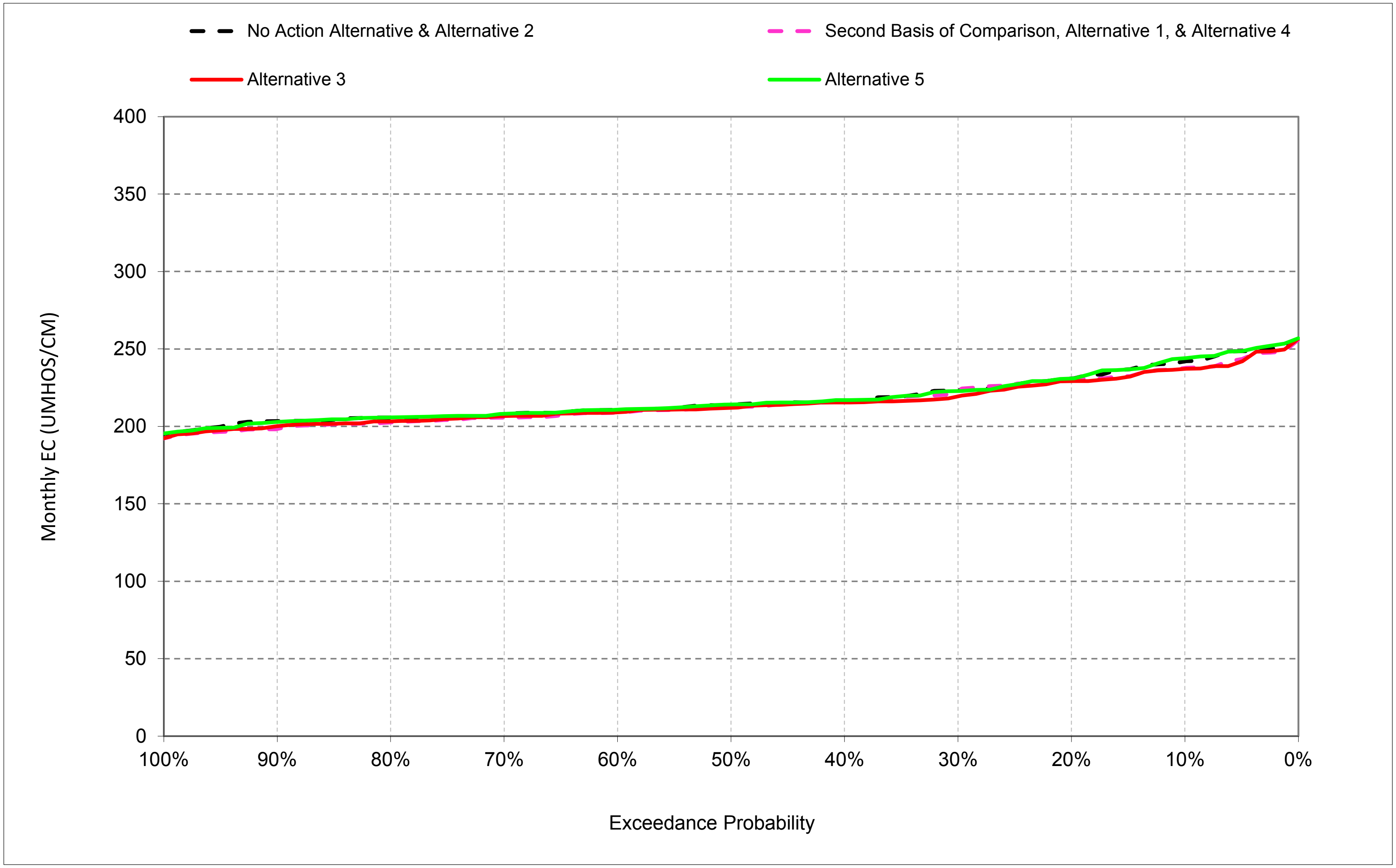
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.5. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, February



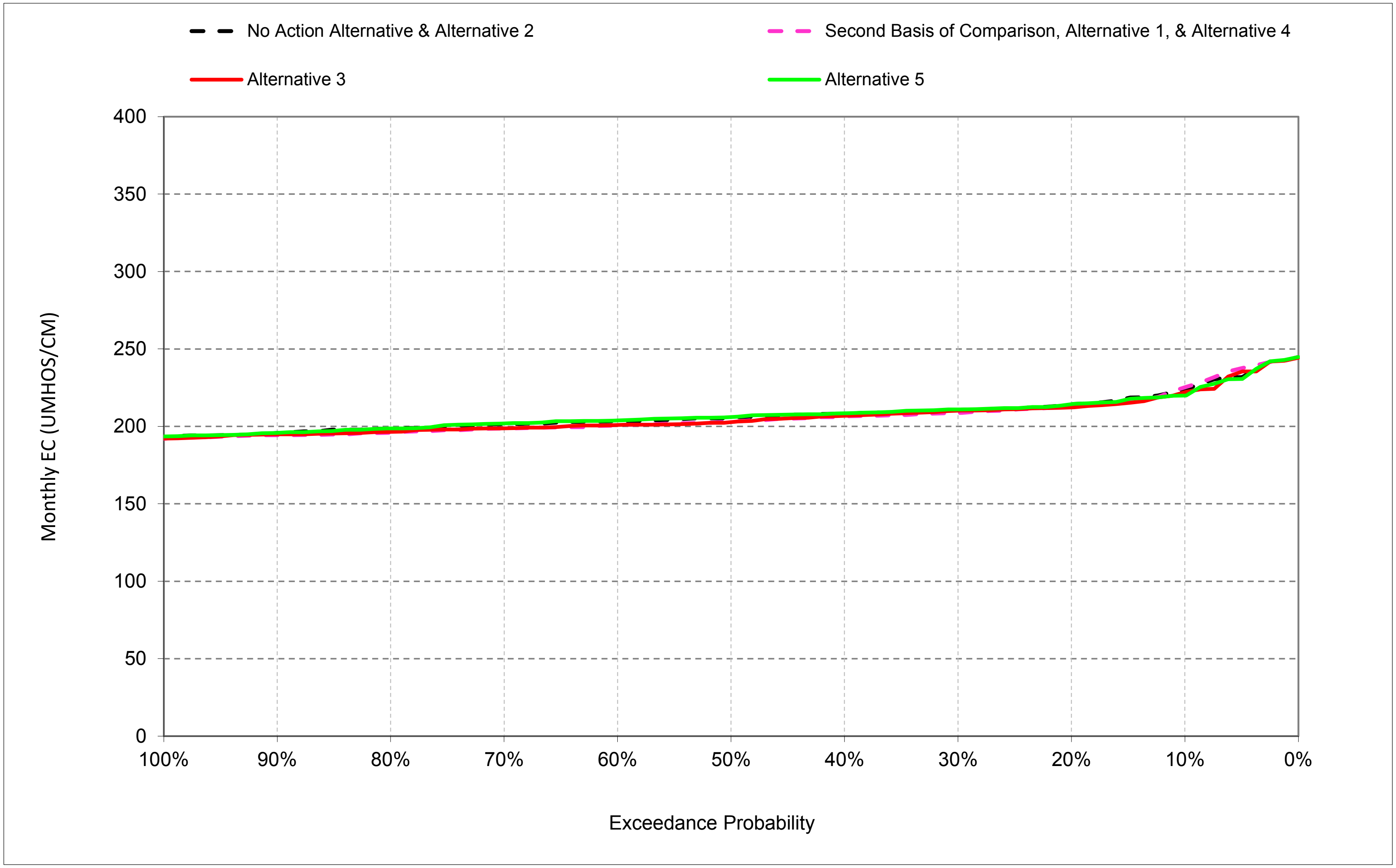
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.6. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, March



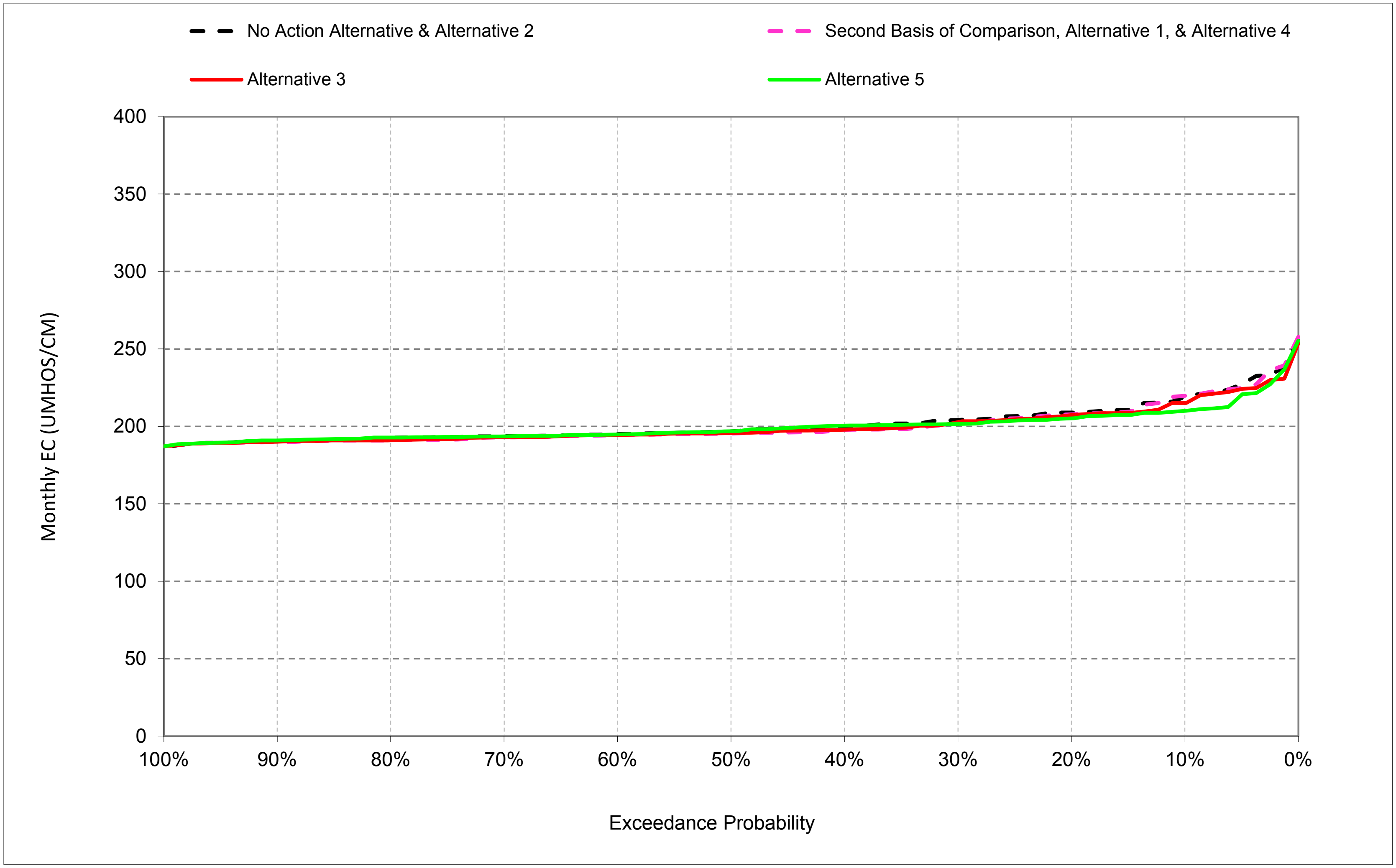
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.7. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, April



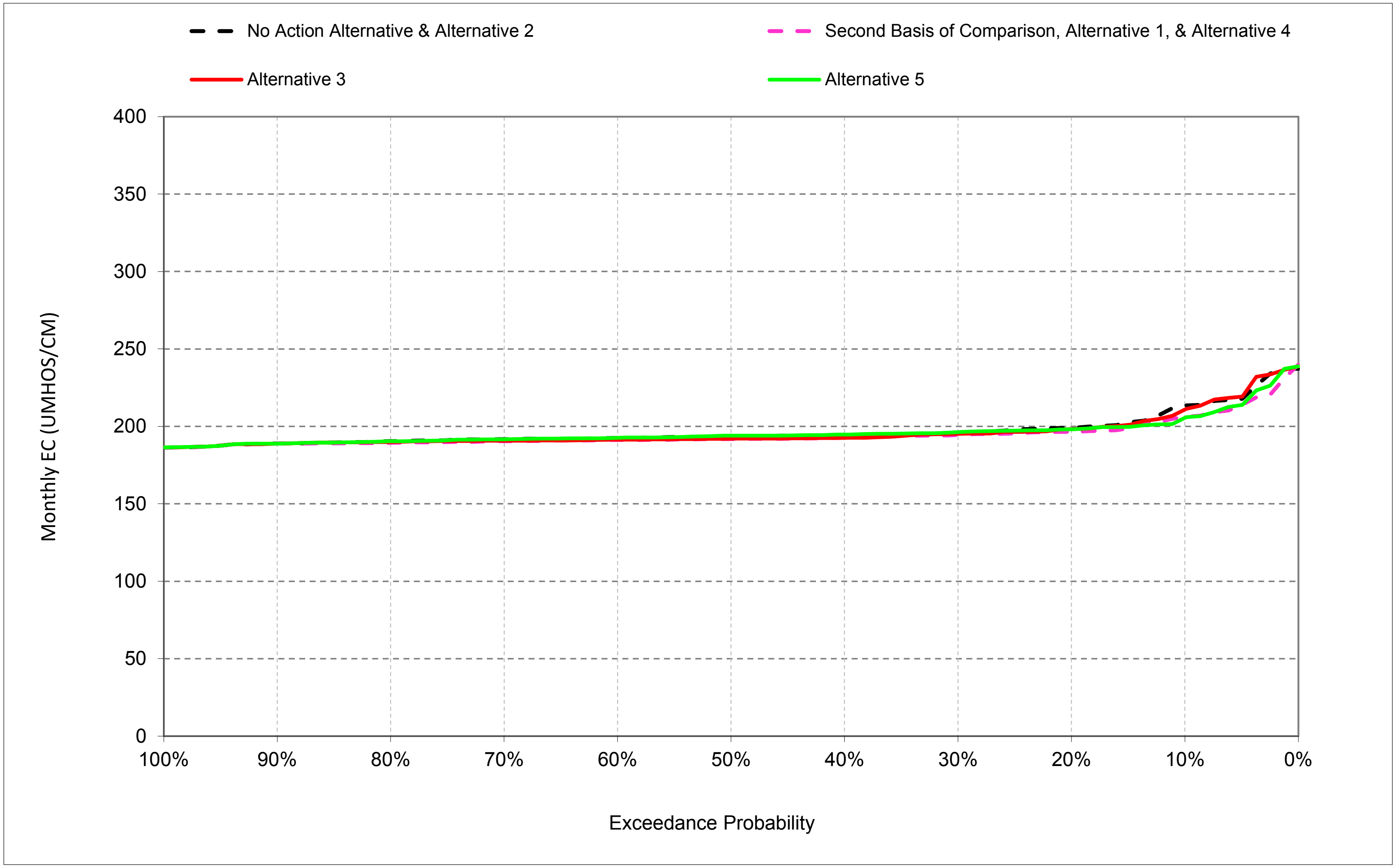
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.8. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, May



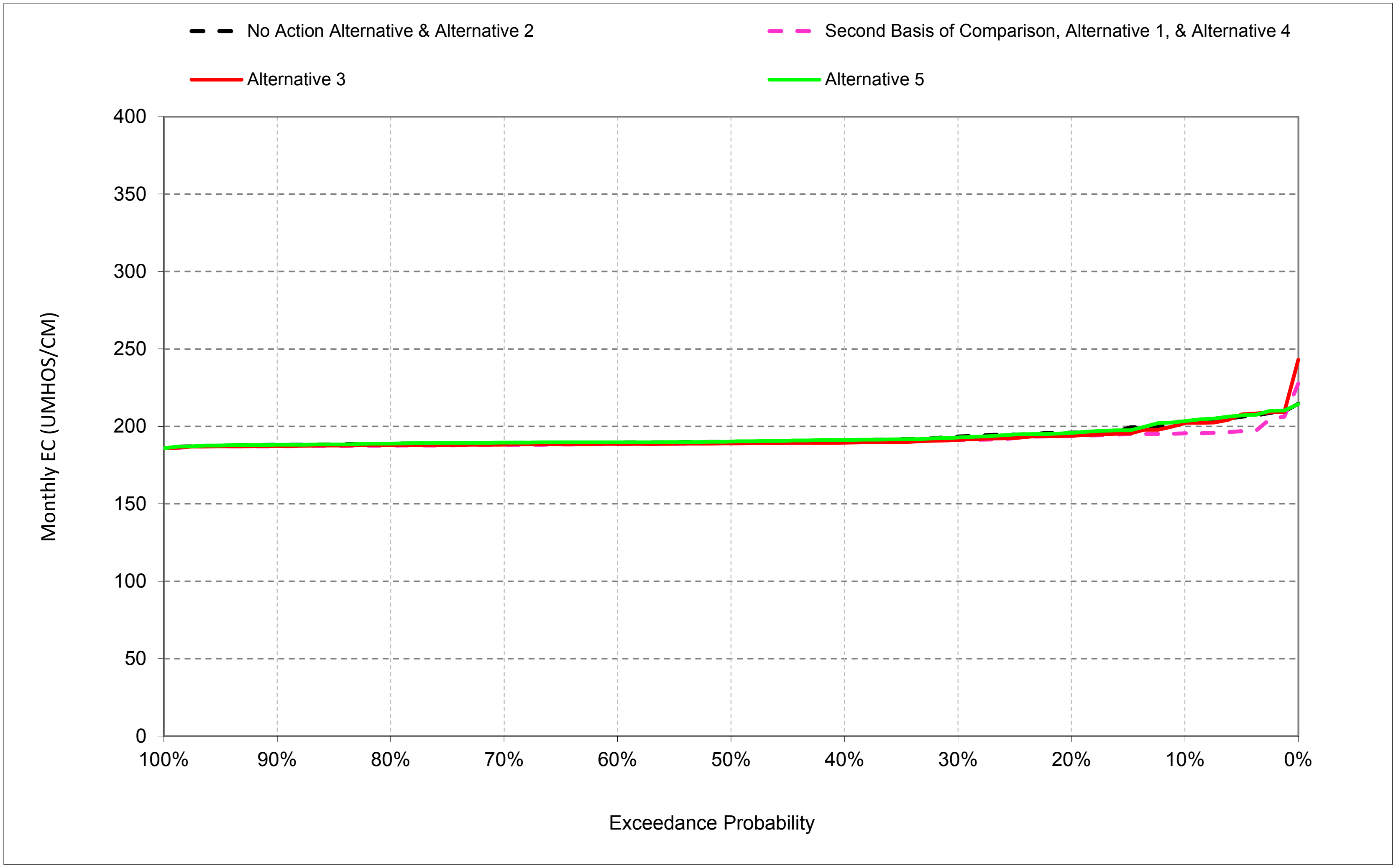
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.9. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, June



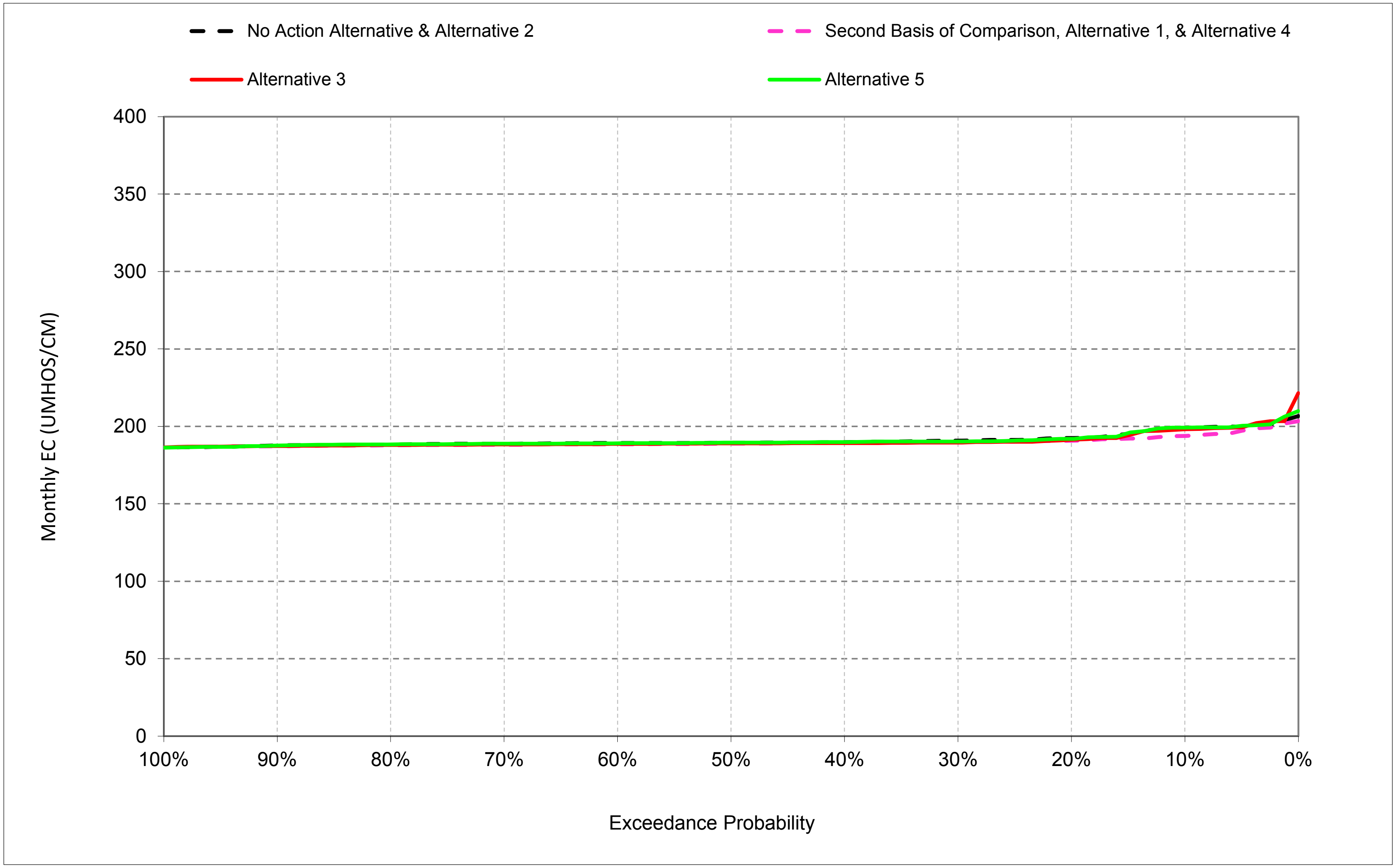
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.10. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, July



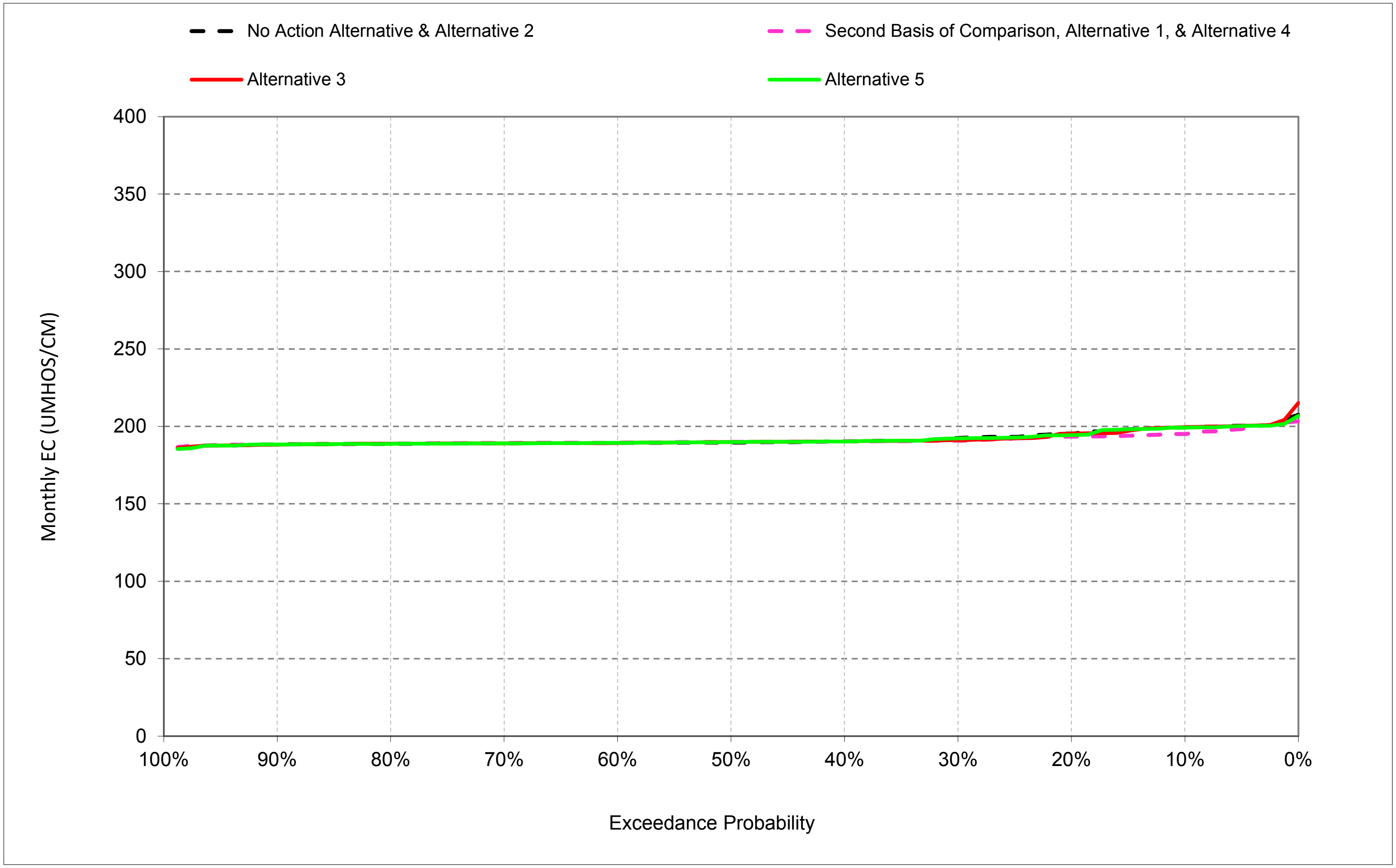
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.11. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.14.12. Barker Slough North Bay Aqueduct Intake Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.14.1. Barker Slough North Bay Aqueduct Intake Salinity, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	206	204	209	236	252	242	224	219	213	203	199	199
20%	199	201	205	226	242	231	214	209	199	196	192	195
30%	194	197	203	222	236	223	211	204	196	193	191	193
40%	191	195	200	214	230	216	208	200	194	191	190	190
50%	190	193	199	211	224	214	206	197	193	190	189	190
60%	190	192	196	207	219	211	203	195	192	190	189	189
70%	189	191	193	204	216	207	201	194	192	189	189	189
80%	188	190	190	203	212	206	199	193	190	189	188	189
90%	187	189	188	199	206	203	196	191	189	188	188	188
Long Term												
Full Simulation Period[b]	193	195	199	215	227	218	208	202	197	193	191	192
Water Year Types[c]												
Wet (32%)	190	193	199	217	229	214	201	193	191	189	189	189
Above Normal (16%)	193	195	200	218	231	216	203	195	192	189	188	189
Below Normal (13%)	191	193	197	210	224	221	211	203	193	190	189	190
Dry (24%)	195	197	198	214	229	221	211	206	199	195	192	193
Critical (15%)	198	200	203	213	222	221	222	220	215	203	199	200

Alternative 1

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	198	202	209	235	249	238	225	220	206	195	194	195
20%	196	198	203	227	241	230	213	208	196	194	191	193
30%	192	195	201	221	236	223	209	202	195	191	190	191
40%	191	193	198	215	229	216	206	198	193	190	189	190
50%	190	192	197	210	222	213	203	195	192	189	189	190
60%	190	190	194	206	218	209	201	194	191	188	189	189
70%	189	189	191	203	213	206	199	193	190	188	188	189
80%	188	188	190	201	209	203	196	191	189	188	188	189
90%	187	187	188	199	204	198	194	190	189	187	187	188
Long Term												
Full Simulation Period[b]	192	193	198	214	225	216	207	200	195	191	190	191
Water Year Types[c]												
Wet (32%)	190	191	198	216	225	212	200	192	190	188	189	190
Above Normal (16%)	192	193	199	218	227	210	199	193	191	188	188	189
Below Normal (13%)	191	192	196	209	220	214	206	197	191	188	189	189
Dry (24%)	193	194	195	213	230	222	210	204	196	192	190	192
Critical (15%)	195	197	202	213	222	223	223	222	211	199	196	197

Alternative 1 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-8	-2	0	-2	-3	-4	2	1	-7	-8	-5	-4
20%	-4	-3	-1	1	-1	-1	-2	-1	-3	-2	-2	-2
30%	-2	-2	-2	-1	0	0	-2	-2	-1	-2	-1	-2
40%	0	-2	-2	1	-1	0	-2	-2	-2	-1	0	0
50%	0	-2	-2	-1	-3	-1	-3	-1	-2	-1	-1	0
60%	0	-2	-3	-2	-2	-2	-3	-1	-1	-1	-1	0
70%	0	-3	-2	-1	-3	-2	-3	-1	-1	-1	-1	0
80%	0	-2	-1	-1	-3	-3	-3	-2	-1	-1	0	0
90%	0	-2	-1	0	-3	-5	-1	-1	0	-1	0	0
Long Term												
Full Simulation Period[b]	-1	-2	-1	-1	-2	-2	-2	-1	-2	-2	-1	-1
Water Year Types[c]												
Wet (32%)	0	-2	-1	-2	-4	-2	-1	0	0	0	0	0
Above Normal (16%)	-1	-2	-1	0	-4	-6	-4	-2	-2	-1	-1	0
Below Normal (13%)	0	-1	-1	-2	-4	-7	-4	-6	-2	-2	0	0
Dry (24%)	-3	-3	-2	-1	1	1	-1	-1	-3	-3	-2	-2
Critical (15%)	-3	-3	-1	0	0	2	1	2	-4	-4	-3	-2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.14.2. Barker Slough North Bay Aqueduct Intake Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	206	204	209	236	252	242	224	219	213	203	199	199
20%	199	201	205	226	242	231	214	209	199	196	192	195
30%	194	197	203	222	236	223	211	204	196	193	191	193
40%	191	195	200	214	230	216	208	200	194	191	190	190
50%	190	193	199	211	224	214	206	197	193	190	189	190
60%	190	192	196	207	219	211	203	195	192	190	189	189
70%	189	191	193	204	216	207	201	194	192	189	189	189
80%	188	190	190	203	212	206	199	193	190	189	188	189
90%	187	189	188	199	206	203	196	191	189	188	188	188
Long Term												
Full Simulation Period[b]	193	195	199	215	227	218	208	202	197	193	191	192
Water Year Types[c]												
Wet (32%)	190	193	199	217	229	214	201	193	191	189	189	189
Above Normal (16%)	193	195	200	218	231	216	203	195	192	189	188	189
Below Normal (13%)	191	193	197	210	224	221	211	203	193	190	189	190
Dry (24%)	195	197	198	214	229	221	211	206	199	195	192	193
Critical (15%)	198	200	203	213	222	221	222	220	215	203	199	200

Alternative 3

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	204	205	210	236	249	237	222	215	211	202	198	199
20%	196	199	205	225	241	229	212	207	198	194	191	195
30%	192	196	201	222	234	219	210	203	195	191	190	191
40%	191	194	198	214	228	215	207	198	193	189	189	190
50%	190	192	197	210	222	212	203	196	192	189	189	190
60%	190	191	196	205	218	209	201	194	191	189	189	189
70%	189	189	192	203	213	207	199	193	191	188	188	189
80%	188	188	189	202	208	203	197	191	190	188	188	189
90%	187	187	188	199	204	200	195	190	189	187	187	188
Long Term												
Full Simulation Period[b]	193	194	198	214	225	216	206	200	196	192	191	192
Water Year Types[c]												
Wet (32%)	190	192	198	216	226	212	200	193	190	188	189	190
Above Normal (16%)	193	193	199	218	228	212	199	193	191	188	188	189
Below Normal (13%)	191	192	196	210	219	214	206	196	191	188	188	189
Dry (24%)	195	196	197	213	229	221	211	204	198	193	190	193
Critical (15%)	197	198	202	212	222	221	221	219	216	205	200	200

Alternative 3 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1	0	1	-1	-3	-5	-2	-4	-3	-1	-1	0
20%	-3	-1	0	-1	-1	-2	-2	-2	-1	-2	-1	0
30%	-2	-1	-2	0	-2	-4	0	-1	-1	-2	-1	-1
40%	0	-1	-2	0	-2	-1	-1	-2	-2	-2	-1	0
50%	0	-2	-2	-1	-2	-2	-3	-1	-1	-1	0	0
60%	0	-1	-1	-2	-1	-2	-3	-1	-1	-1	-1	0
70%	0	-2	-1	-1	-3	-1	-3	-1	-1	-1	0	0
80%	0	-2	-1	0	-4	-2	-2	-2	0	-1	0	0
90%	0	-2	0	0	-2	-3	-1	0	0	-1	0	0
Long Term												
Full Simulation Period[b]	0	-1	-1	-1	-2	-2	-2	-2	-1	-1	0	0
Water Year Types[c]												
Wet (32%)	0	-1	-1	-2	-3	-2	-1	0	0	-1	0	0
Above Normal (16%)	-1	-2	-1	0	-3	-4	-3	-1	-1	-1	0	0
Below Normal (13%)	0	-1	0	-1	-5	-7	-4	-7	-2	-2	0	-1
Dry (24%)	0	-1	-1	-1	0	0	-1	-1	-1	-2	-1	-1
Critical (15%)	-1	-2	-2	0	0	0	-1	-1	1	2	1	1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.14.3. Barker Slough North Bay Aqueduct Intake Salinity, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	206	204	209	236	252	242	224	219	213	203	199	199
20%	199	201	205	226	242	231	214	209	199	196	192	195
30%	194	197	203	222	236	223	211	204	196	193	191	193
40%	191	195	200	214	230	216	208	200	194	191	190	190
50%	190	193	199	211	224	214	206	197	193	190	189	190
60%	190	192	196	207	219	211	203	195	192	190	189	189
70%	189	191	193	204	216	207	201	194	192	189	189	189
80%	188	190	190	203	212	206	199	193	190	189	188	189
90%	187	189	188	199	206	203	196	191	189	188	188	188
Long Term												
Full Simulation Period[b]	193	195	199	215	227	218	208	202	197	193	191	192
Water Year Types[c]												
Wet (32%)	190	193	199	217	229	214	201	193	191	189	189	189
Above Normal (16%)	193	195	200	218	231	216	203	195	192	189	188	189
Below Normal (13%)	191	193	197	210	224	221	211	203	193	190	189	190
Dry (24%)	195	197	198	214	229	221	211	206	199	195	192	193
Critical (15%)	198	200	203	213	222	221	222	220	215	203	199	200

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	205	205	210	236	251	244	220	210	205	203	199	199
20%	199	201	205	226	242	231	214	205	198	196	192	194
30%	193	197	202	222	236	223	211	202	196	193	190	192
40%	191	195	200	215	229	217	208	201	195	191	190	190
50%	190	194	198	211	224	214	206	197	194	190	189	190
60%	190	192	197	208	219	211	204	195	193	190	189	189
70%	189	192	194	204	216	208	202	194	192	189	189	189
80%	188	191	190	202	212	206	199	193	190	189	188	189
90%	187	189	188	199	206	203	196	191	189	188	188	188
Long Term												
Full Simulation Period[b]	193	196	199	215	227	218	208	200	196	193	191	192
Water Year Types[c]												
Wet (32%)	190	193	199	217	229	214	201	193	191	189	189	189
Above Normal (16%)	193	195	200	218	231	216	203	195	192	189	189	189
Below Normal (13%)	192	194	197	211	224	220	210	199	193	190	189	189
Dry (24%)	195	197	198	214	229	221	211	204	199	195	191	193
Critical (15%)	198	200	203	212	222	221	222	216	211	204	200	199

Alternative 5 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1	1	1	0	-1	2	-4	-9	-8	0	0	0
20%	-1	0	0	0	0	0	0	-4	-1	0	-1	-1
30%	-1	0	0	0	0	-1	0	-3	0	-1	-1	0
40%	0	0	0	0	0	1	0	1	0	0	0	0
50%	0	0	-1	0	-1	0	0	0	1	0	0	0
60%	0	0	0	0	0	0	0	0	0	0	0	0
70%	0	0	0	-1	0	1	0	0	0	0	0	0
80%	0	1	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[b]	0	0	0	0	0	0	0	-2	-1	0	0	0
Water Year Types[c]												
Wet (32%)	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
Below Normal (13%)	1	1	0	0	-1	0	-1	-4	0	0	0	0
Dry (24%)	0	0	0	0	0	0	0	-2	-1	0	0	0
Critical (15%)	0	0	0	0	0	0	0	-4	-4	1	1	-1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.14.4. Barker Slough North Bay Aqueduct Intake Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	198	202	209	235	249	238	225	220	206	195	194	195
20%	196	198	203	227	241	230	213	208	196	194	191	193
30%	192	195	201	221	236	223	209	202	195	191	190	191
40%	191	193	198	215	229	216	206	198	193	190	189	190
50%	190	192	197	210	222	213	203	195	192	189	189	190
60%	190	190	194	206	218	209	201	194	191	188	189	189
70%	189	189	191	203	213	206	199	193	190	188	188	189
80%	188	188	190	201	209	203	196	191	189	188	188	189
90%	187	187	188	199	204	198	194	190	189	187	187	188
Long Term												
Full Simulation Period[b]	192	193	198	214	225	216	207	200	195	191	190	191
Water Year Types[c]												
Wet (32%)	190	191	198	216	225	212	200	192	190	188	189	190
Above Normal (16%)	192	193	199	218	227	210	199	193	191	188	188	189
Below Normal (13%)	191	192	196	209	220	214	206	197	191	188	189	189
Dry (24%)	193	194	195	213	230	222	210	204	196	192	190	192
Critical (15%)	195	197	202	213	222	223	223	222	211	199	196	197

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	206	204	209	236	252	242	224	219	213	203	199	199
20%	199	201	205	226	242	231	214	209	199	196	192	195
30%	194	197	203	222	236	223	211	204	196	193	191	193
40%	191	195	200	214	230	216	208	200	194	191	190	190
50%	190	193	199	211	224	214	206	197	193	190	189	190
60%	190	192	196	207	219	211	203	195	192	190	189	189
70%	189	191	193	204	216	207	201	194	192	189	189	189
80%	188	190	190	203	212	206	199	193	190	189	188	189
90%	187	189	188	199	206	203	196	191	189	188	188	188
Long Term												
Full Simulation Period[b]	193	195	199	215	227	218	208	202	197	193	191	192
Water Year Types[c]												
Wet (32%)	190	193	199	217	229	214	201	193	191	189	189	189
Above Normal (16%)	193	195	200	218	231	216	203	195	192	189	188	189
Below Normal (13%)	191	193	197	210	224	221	211	203	193	190	189	190
Dry (24%)	195	197	198	214	229	221	211	206	199	195	192	193
Critical (15%)	198	200	203	213	222	221	222	220	215	203	199	200

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	8	2	0	2	3	4	-2	-1	7	8	5	4
20%	4	3	1	-1	1	1	2	1	3	2	2	2
30%	2	2	2	1	0	0	2	2	1	2	1	2
40%	0	2	2	-1	1	0	2	2	2	1	0	0
50%	0	2	2	1	3	1	3	1	2	1	1	0
60%	0	2	3	2	2	2	3	1	1	1	1	0
70%	0	3	2	1	3	2	3	1	1	1	1	0
80%	0	2	1	1	3	3	3	2	1	1	0	0
90%	0	2	1	0	3	5	1	1	0	1	0	0
Long Term												
Full Simulation Period[b]	1	2	1	1	2	2	2	1	2	2	1	1
Water Year Types[c]												
Wet (32%)	0	2	1	2	4	2	1	0	0	0	0	0
Above Normal (16%)	1	2	1	0	4	6	4	2	2	1	1	0
Below Normal (13%)	0	1	1	2	4	7	4	6	2	2	0	0
Dry (24%)	3	3	2	1	-1	-1	1	1	3	3	2	2
Critical (15%)	3	3	1	0	0	-2	-1	-2	4	4	3	2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.14.5. Barker Slough North Bay Aqueduct Intake Salinity, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	198	202	209	235	249	238	225	220	206	195	194	195
20%	196	198	203	227	241	230	213	208	196	194	191	193
30%	192	195	201	221	236	223	209	202	195	191	190	191
40%	191	193	198	215	229	216	206	198	193	190	189	190
50%	190	192	197	210	222	213	203	195	192	189	189	190
60%	190	190	194	206	218	209	201	194	191	188	189	189
70%	189	189	191	203	213	206	199	193	190	188	188	189
80%	188	188	190	201	209	203	196	191	189	188	188	189
90%	187	187	188	199	204	198	194	190	189	187	187	188
Long Term												
Full Simulation Period[b]	192	193	198	214	225	216	207	200	195	191	190	191
Water Year Types[c]												
Wet (32%)	190	191	198	216	225	212	200	192	190	188	189	190
Above Normal (16%)	192	193	199	218	227	210	199	193	191	188	188	189
Below Normal (13%)	191	192	196	209	220	214	206	197	191	188	189	189
Dry (24%)	193	194	195	213	230	222	210	204	196	192	190	192
Critical (15%)	195	197	202	213	222	223	223	222	211	199	196	197

Alternative 3

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	204	205	210	236	249	237	222	215	211	202	198	199
20%	196	199	205	225	241	229	212	207	198	194	191	195
30%	192	196	201	222	234	219	210	203	195	191	190	191
40%	191	194	198	214	228	215	207	198	193	189	189	190
50%	190	192	197	210	222	212	203	196	192	189	189	190
60%	190	191	196	205	218	209	201	194	191	189	189	189
70%	189	189	192	203	213	207	199	193	191	188	188	189
80%	188	188	189	202	208	203	197	191	190	188	188	189
90%	187	187	188	199	204	200	195	190	189	187	187	188
Long Term												
Full Simulation Period[b]	193	194	198	214	225	216	206	200	196	192	191	192
Water Year Types[c]												
Wet (32%)	190	192	198	216	226	212	200	193	190	188	189	190
Above Normal (16%)	193	193	199	218	228	212	199	193	191	188	188	189
Below Normal (13%)	191	192	196	210	219	214	206	196	191	188	188	189
Dry (24%)	195	196	197	213	229	221	211	204	198	193	190	193
Critical (15%)	197	198	202	212	222	221	221	219	216	205	200	200

Alternative 3 minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	6	2	1	1	0	0	-3	-5	5	7	4	4
20%	1	1	1	-2	0	-1	-1	0	2	0	1	2
30%	0	1	0	0	-1	-4	1	1	1	0	0	0
40%	0	1	0	-1	-1	-1	0	0	0	-1	0	0
50%	0	0	0	0	1	-1	0	0	0	0	0	0
60%	0	0	2	0	1	0	0	0	0	0	0	0
70%	0	0	1	0	1	1	0	0	0	0	0	0
80%	0	1	0	1	-1	1	1	0	1	0	0	0
90%	0	0	0	0	0	2	0	0	0	0	0	0
Long Term												
Full Simulation Period[b]	1	1	1	0	0	0	0	0	1	1	1	1
Water Year Types[c]												
Wet (32%)	0	1	0	0	1	0	0	0	0	0	0	0
Above Normal (16%)	1	0	0	0	1	2	0	0	1	0	0	0
Below Normal (13%)	0	0	0	1	-1	0	0	-1	0	0	0	0
Dry (24%)	2	2	1	0	-1	-1	0	0	2	1	1	1
Critical (15%)	2	1	0	-1	0	-2	-2	-3	4	6	4	3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.14.6. Barker Slough North Bay Aqueduct Intake Salinity, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	198	202	209	235	249	238	225	220	206	195	194	195
20%	196	198	203	227	241	230	213	208	196	194	191	193
30%	192	195	201	221	236	223	209	202	195	191	190	191
40%	191	193	198	215	229	216	206	198	193	190	189	190
50%	190	192	197	210	222	213	203	195	192	189	189	190
60%	190	190	194	206	218	209	201	194	191	188	189	189
70%	189	189	191	203	213	206	199	193	190	188	188	189
80%	188	188	190	201	209	203	196	191	189	188	188	189
90%	187	187	188	199	204	198	194	190	189	187	187	188
Long Term												
Full Simulation Period[b]	192	193	198	214	225	216	207	200	195	191	190	191
Water Year Types[c]												
Wet (32%)	190	191	198	216	225	212	200	192	190	188	189	190
Above Normal (16%)	192	193	199	218	227	210	199	193	191	188	188	189
Below Normal (13%)	191	192	196	209	220	214	206	197	191	188	189	189
Dry (24%)	193	194	195	213	230	222	210	204	196	192	190	192
Critical (15%)	195	197	202	213	222	223	223	222	211	199	196	197

Alternative 5

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	205	205	210	236	251	244	220	210	205	203	199	199
20%	199	201	205	226	242	231	214	205	198	196	192	194
30%	193	197	202	222	236	223	211	202	196	193	190	192
40%	191	195	200	215	229	217	208	201	195	191	190	190
50%	190	194	198	211	224	214	206	197	194	190	189	190
60%	190	192	197	208	219	211	204	195	193	190	189	189
70%	189	192	194	204	216	208	202	194	192	189	189	189
80%	188	191	190	202	212	206	199	193	190	189	188	189
90%	187	189	188	199	206	203	196	191	189	188	188	188
Long Term												
Full Simulation Period[b]	193	196	199	215	227	218	208	200	196	193	191	192
Water Year Types[c]												
Wet (32%)	190	193	199	217	229	214	201	193	191	189	189	189
Above Normal (16%)	193	195	200	218	231	216	203	195	192	189	189	189
Below Normal (13%)	192	194	197	211	224	220	210	199	193	190	189	189
Dry (24%)	195	197	198	214	229	221	211	204	199	195	191	193
Critical (15%)	198	200	203	212	222	221	222	216	211	204	200	199

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	7	3	1	2	2	6	-5	-10	-1	8	5	4
20%	3	3	1	-1	1	1	2	-3	2	2	1	1
30%	1	2	2	1	0	0	2	-1	2	1	0	1
40%	0	2	2	0	0	1	2	3	2	1	0	0
50%	0	2	1	1	2	1	3	2	2	1	1	0
60%	0	2	3	2	1	2	3	0	1	1	1	0
70%	0	3	2	1	3	2	3	1	1	1	1	0
80%	0	3	1	1	3	3	3	2	1	1	1	0
90%	0	2	0	0	3	5	1	1	0	1	0	0
Long Term												
Full Simulation Period[b]	1	2	1	1	2	2	2	0	1	2	1	1
Water Year Types[c]												
Wet (32%)	0	2	1	2	4	3	1	0	0	1	1	0
Above Normal (16%)	1	2	1	0	4	6	4	2	2	1	1	0
Below Normal (13%)	1	2	1	2	4	7	4	2	2	2	0	0
Dry (24%)	2	3	2	1	-1	0	1	-1	2	3	1	1
Critical (15%)	2	3	1	-1	0	-2	-1	-6	0	5	4	2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

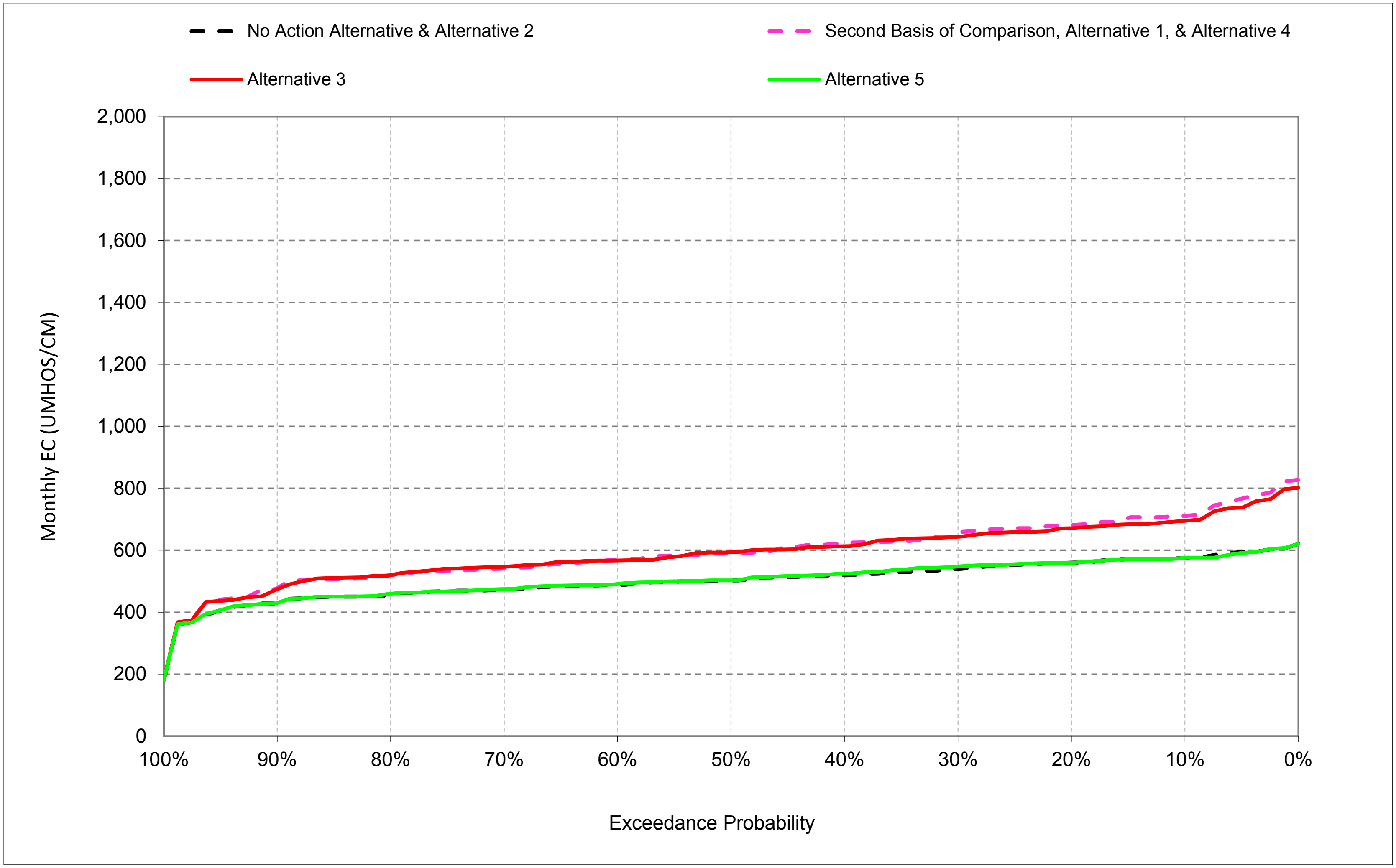
b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

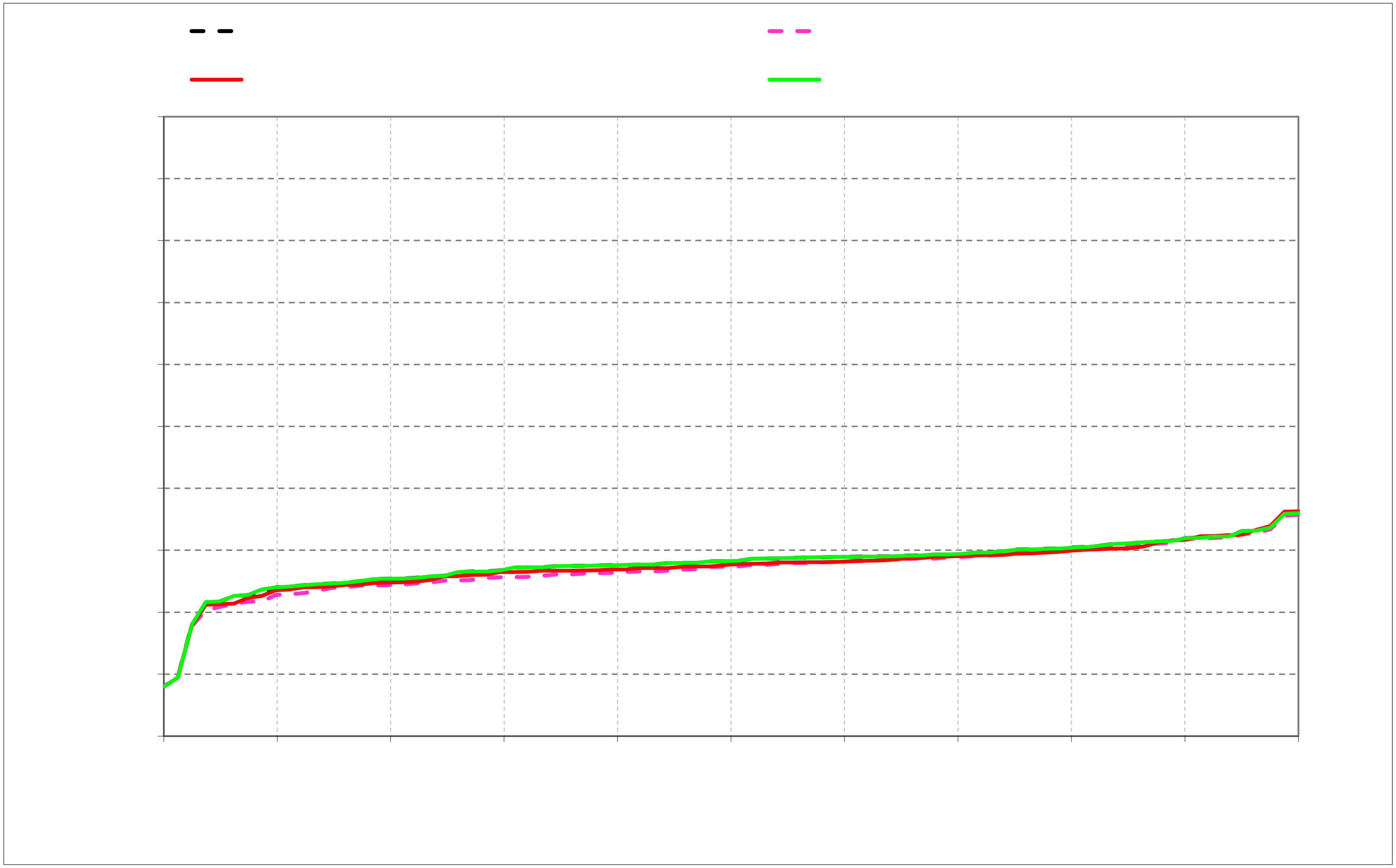
B.15. San Joaquin River at Vernalis Salinity

Figure 6E.B.15.1. San Joaquin River at Vernalis Salinity, Electrical Conductivity, October



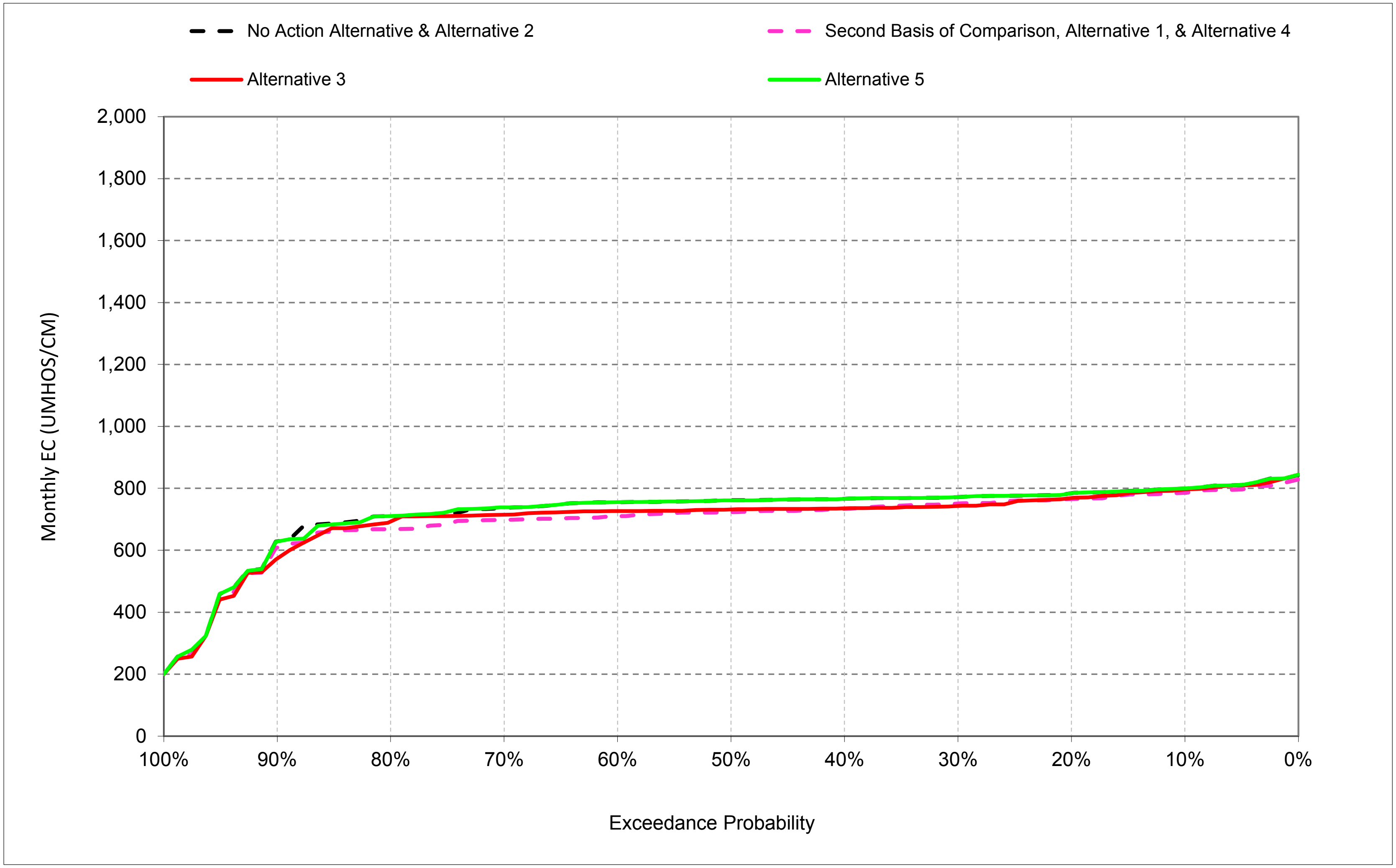
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.2. San Joaquin River at Vernalis Salinity, Electrical Conductivity, November



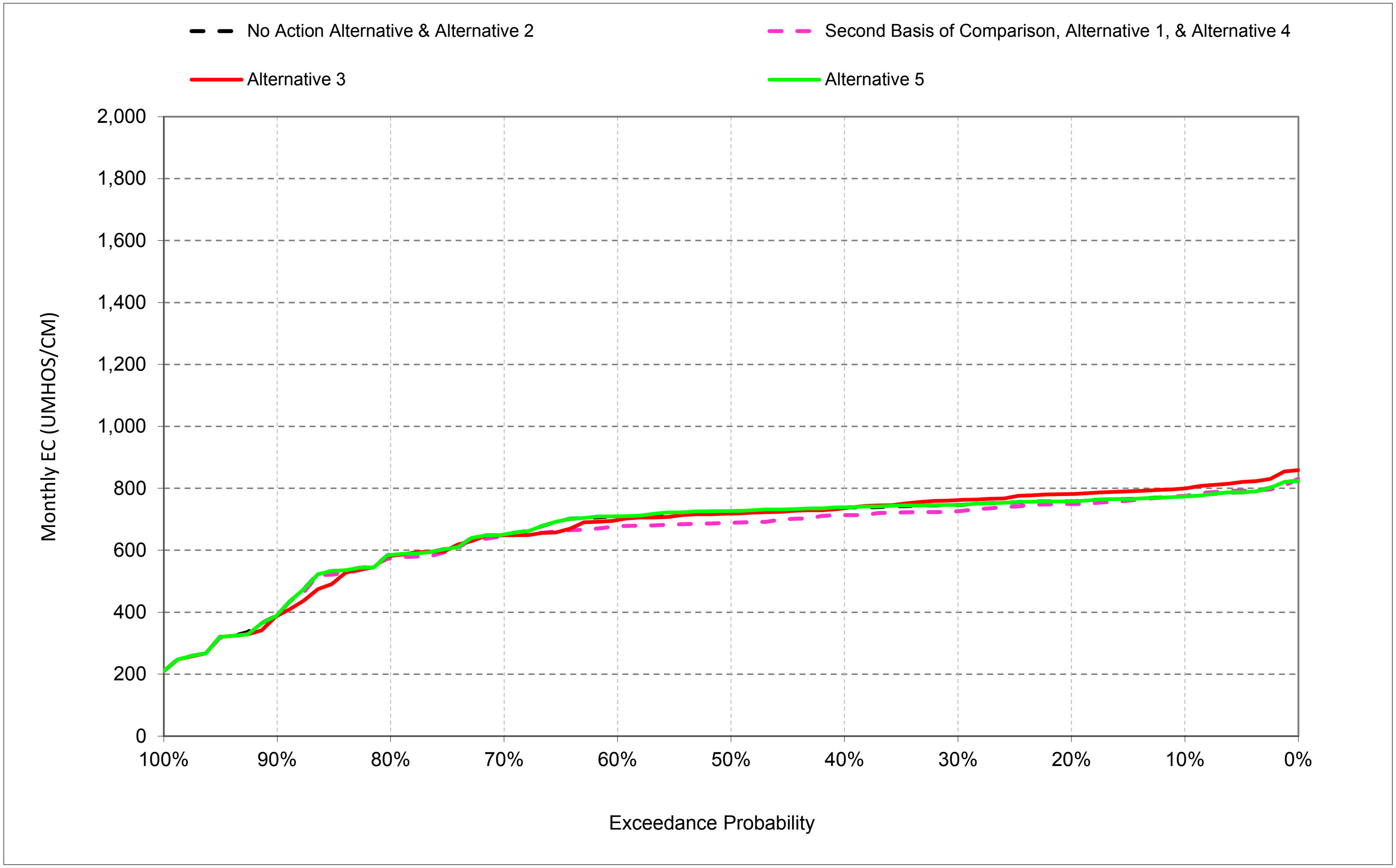
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.3. San Joaquin River at Vernalis Salinity, Electrical Conductivity, December



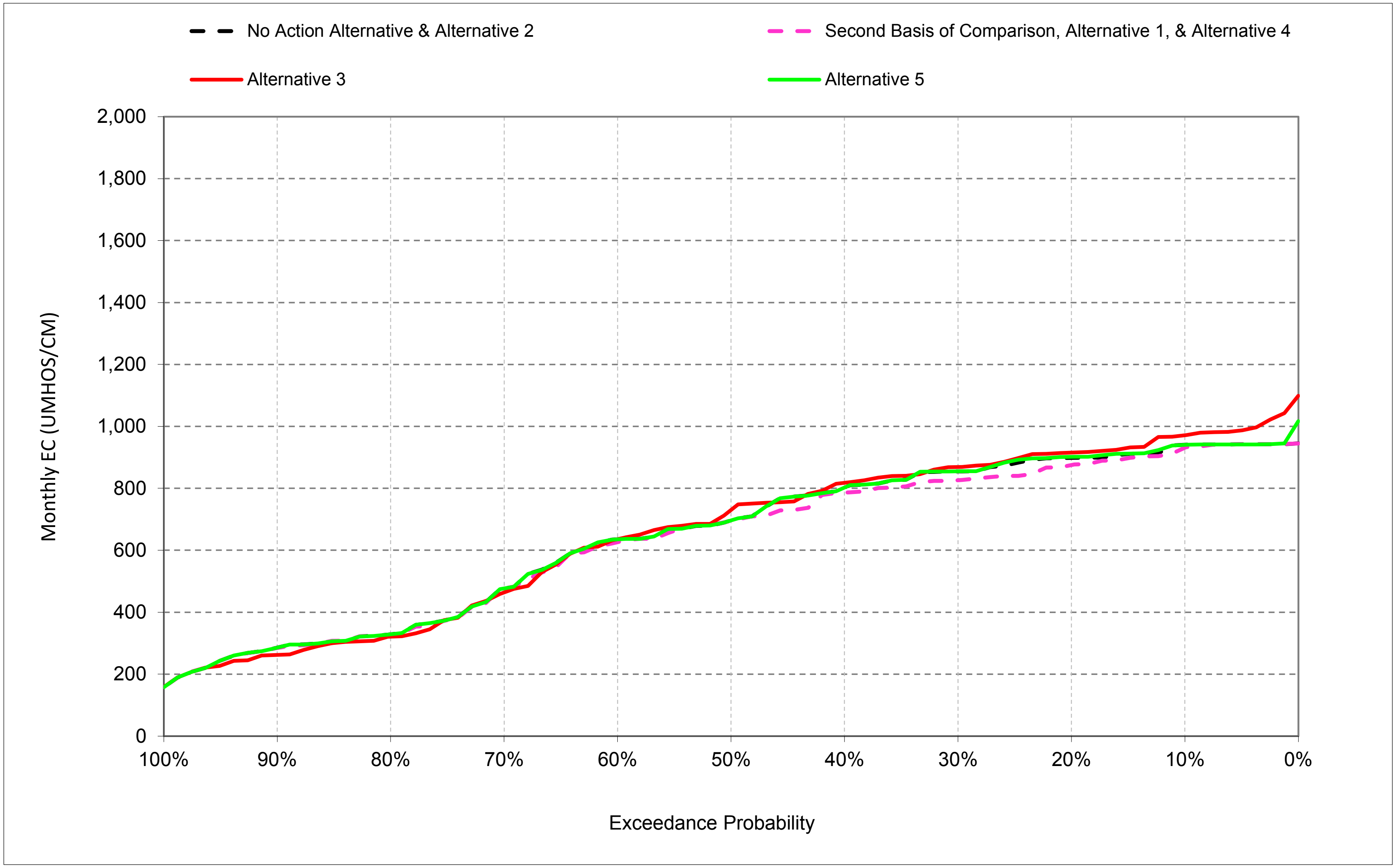
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.4. San Joaquin River at Vernalis Salinity, Electrical Conductivity, January



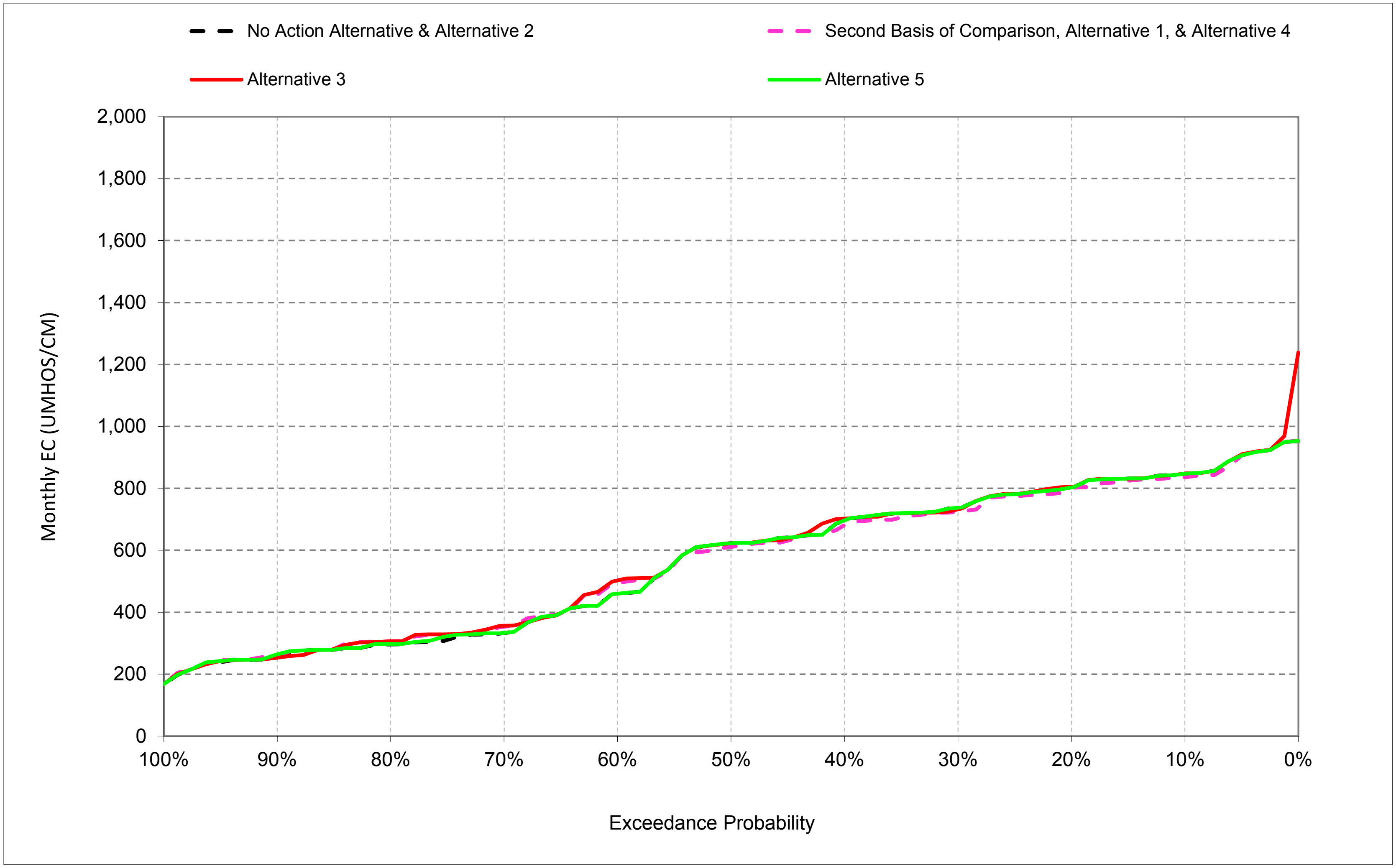
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.5. San Joaquin River at Vernalis Salinity, Electrical Conductivity, February



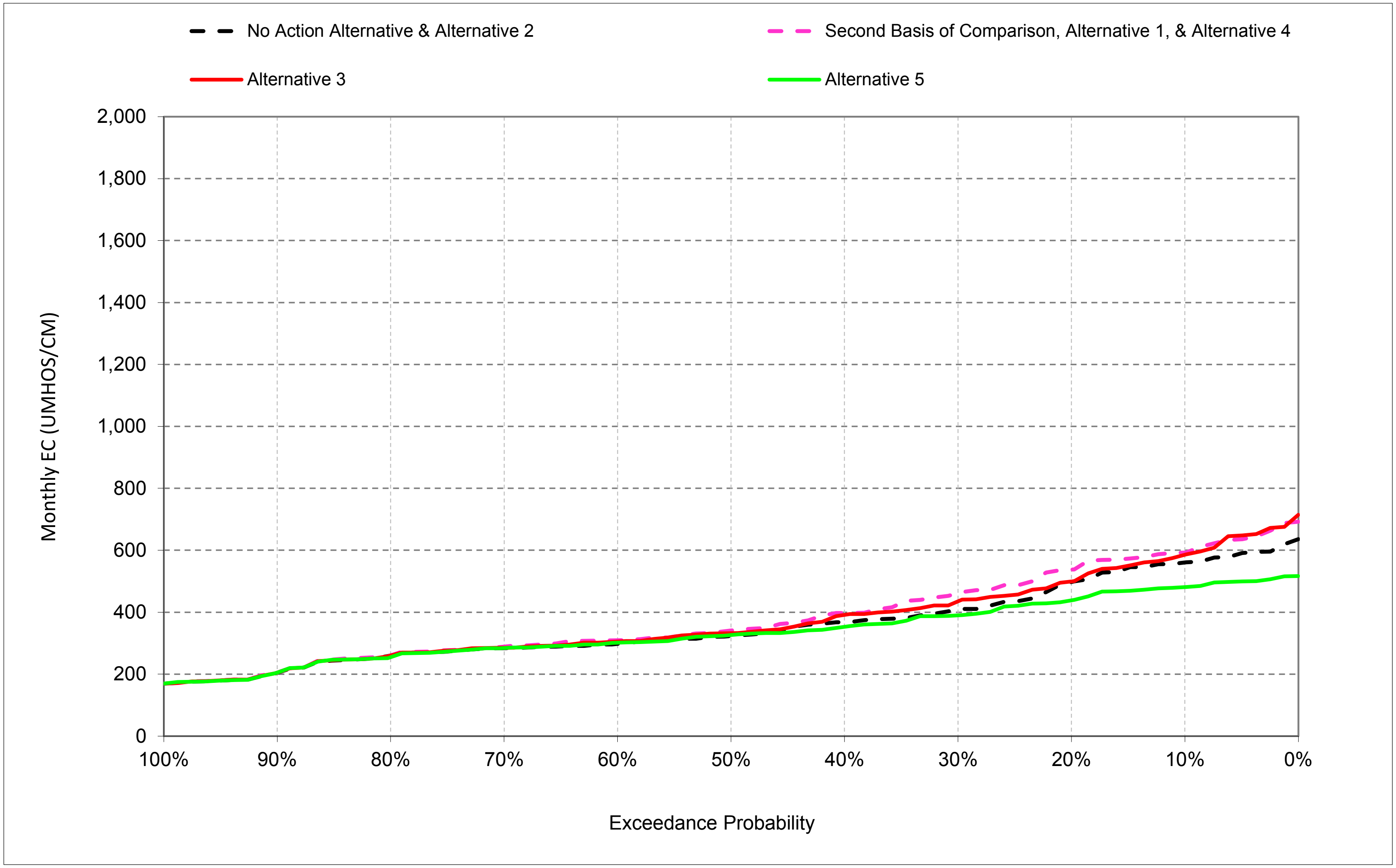
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.6. San Joaquin River at Vernalis Salinity, Electrical Conductivity, March



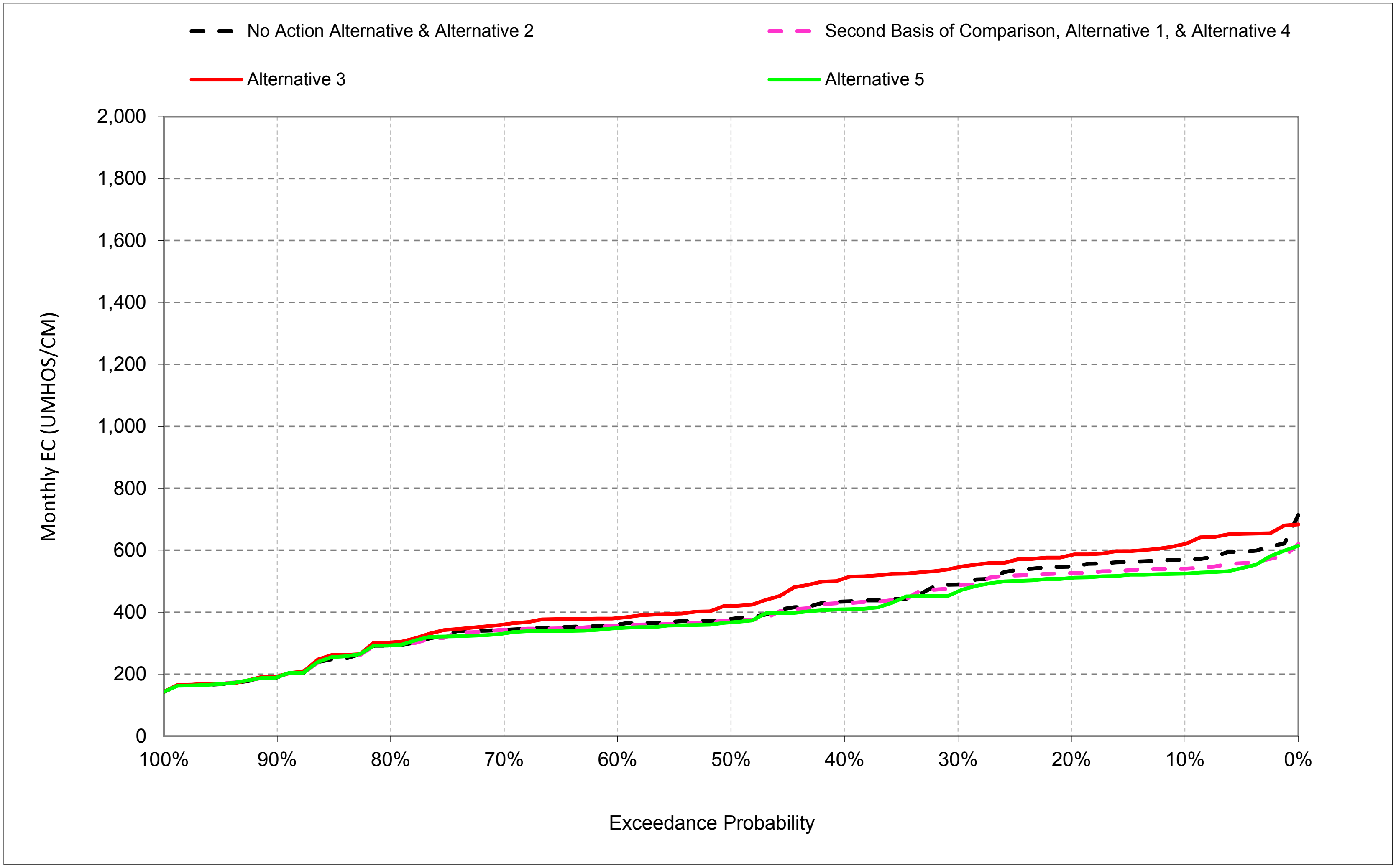
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.7. San Joaquin River at Vernalis Salinity, Electrical Conductivity, April



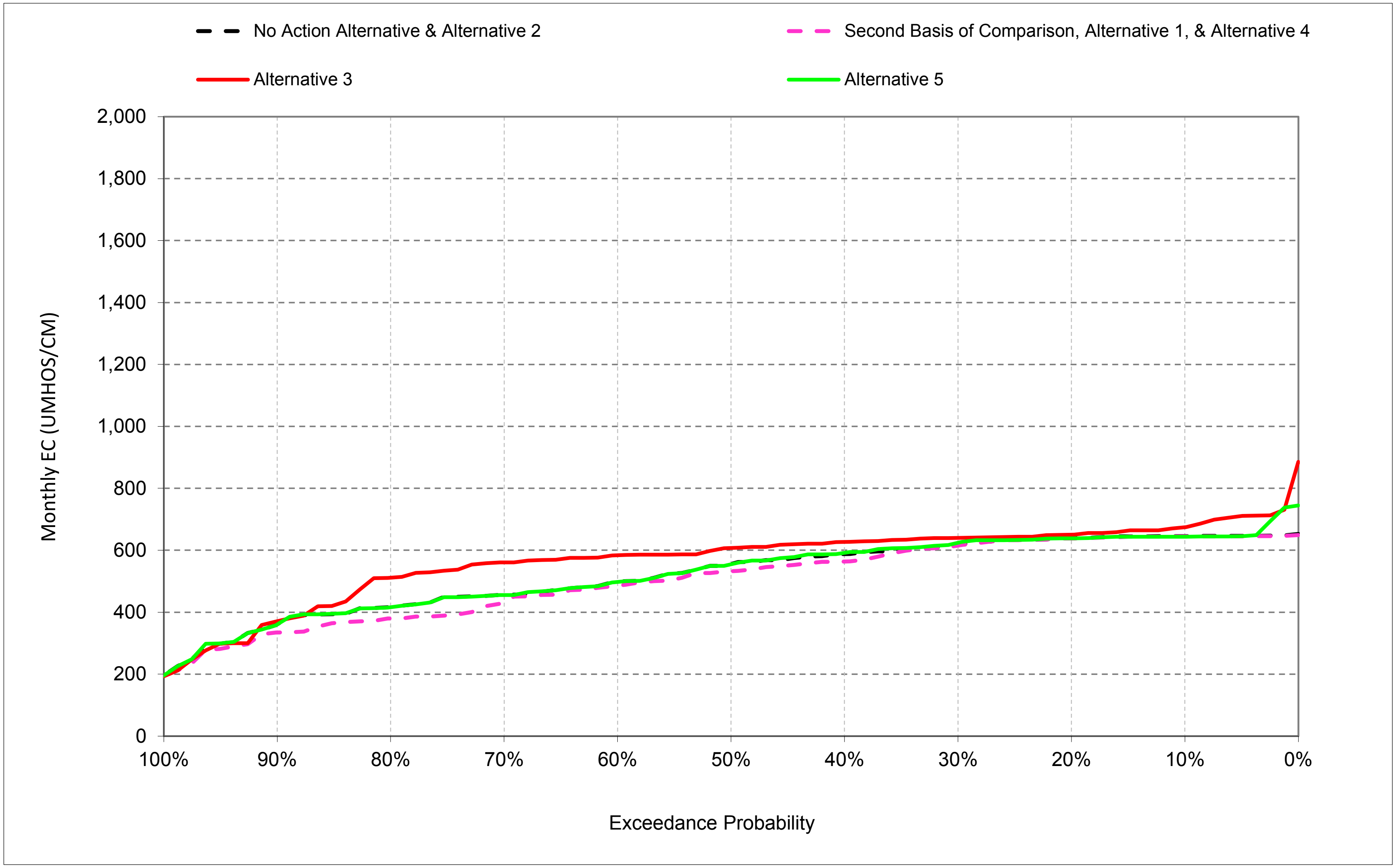
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.8. San Joaquin River at Vernalis Salinity, Electrical Conductivity, May



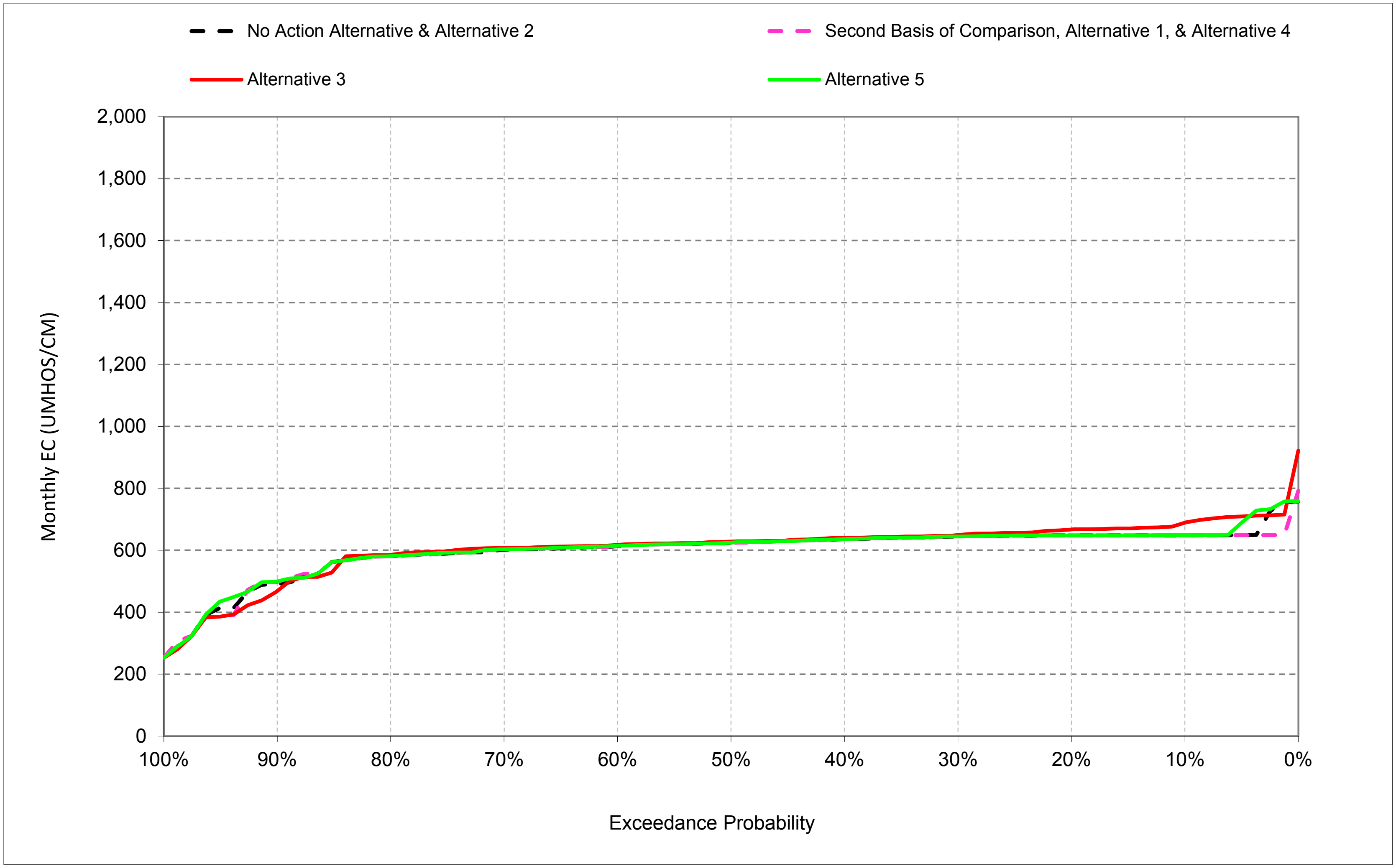
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.9. San Joaquin River at Vernalis Salinity, Electrical Conductivity, June



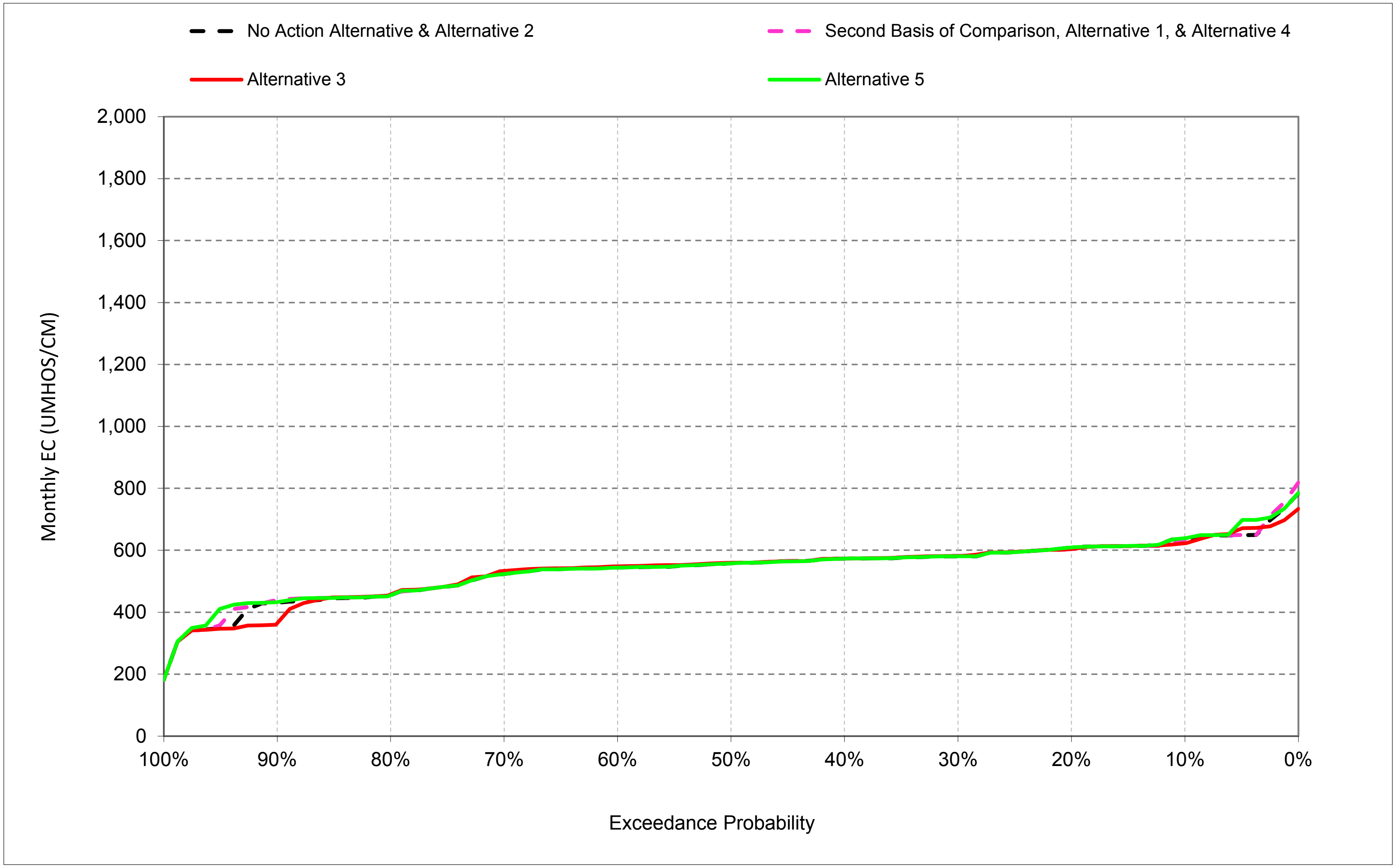
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.10. San Joaquin River at Vernalis Salinity, Electrical Conductivity, July



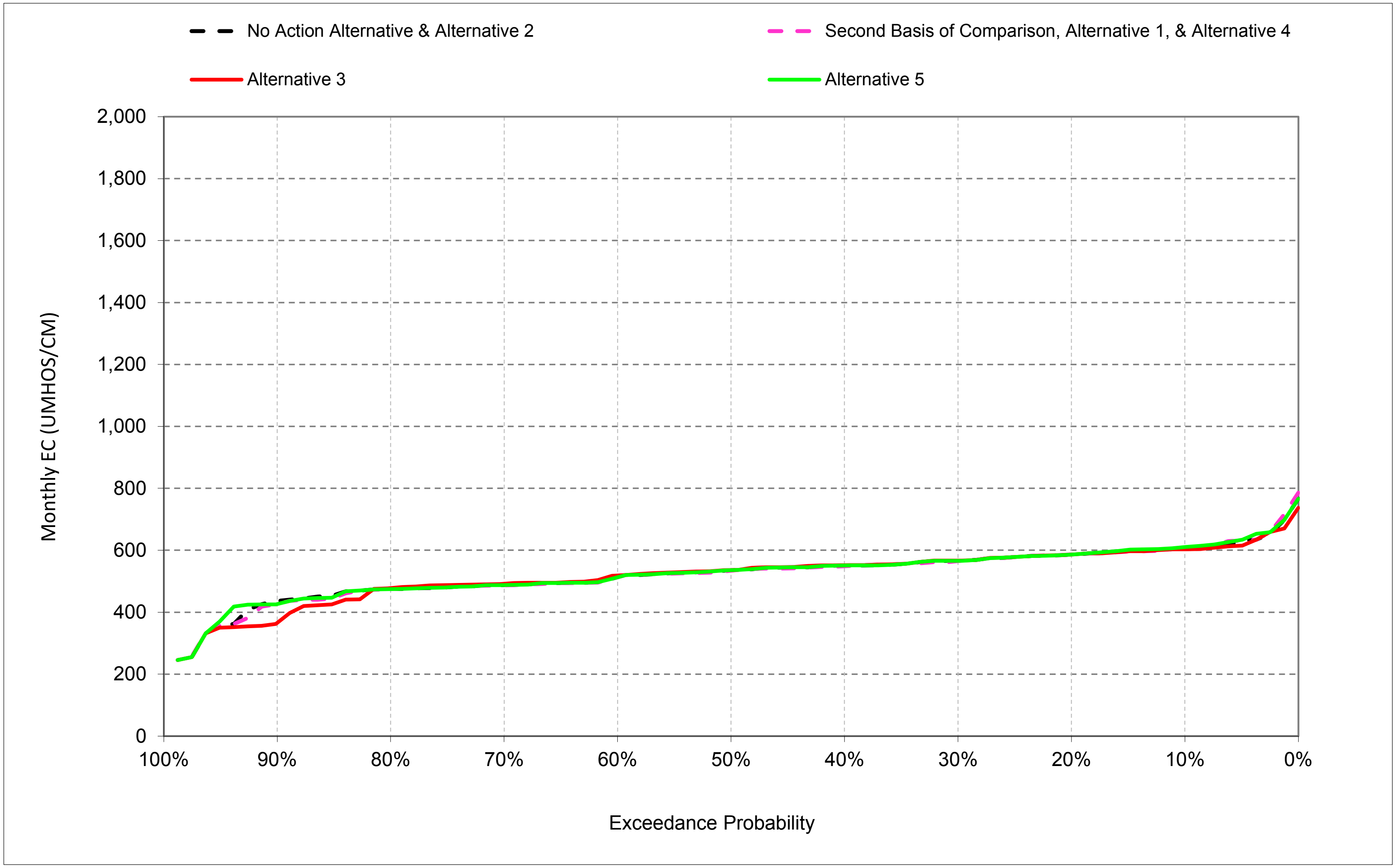
Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.11. San Joaquin River at Vernalis Salinity, Electrical Conductivity, August



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Figure 6E.B.15.12. San Joaquin River at Vernalis Salinity, Electrical Conductivity, September



Notes: 1) Exceedance probability is defined as the probability a given value will be exceeded in any one year. 2) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 3) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternatives 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 4) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.15.1. San Joaquin River at Vernalis, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	575	639	800	774	941	847	561	569	646	648	636	606
20%	560	608	784	758	898	803	498	547	639	648	609	586
30%	540	587	772	746	855	737	408	489	616	645	580	568
40%	519	579	766	737	802	696	368	435	588	636	573	551
50%	503	565	761	726	697	623	323	378	556	624	558	538
60%	488	552	755	709	635	460	298	360	498	613	544	521
70%	474	538	736	651	477	333	284	343	456	602	523	489
80%	456	509	710	585	329	296	261	293	417	581	455	476
90%	430	481	629	392	286	263	205	190	361	491	431	441
Long Term												
Full Simulation Period[b]	503	554	721	660	647	564	360	401	521	599	539	526
Water Year Types[c]												
Wet (23%)	427	465	633	546	508	425	299	351	476	574	512	490
Above Normal (24%)	479	530	716	673	637	546	366	414	546	614	541	537
Below Normal (10%)	509	583	764	717	719	630	323	375	510	594	520	519
Dry (16%)	533	585	726	669	639	535	350	366	489	584	525	499
Critical (27%)	571	627	784	721	754	694	425	462	558	617	575	564

Alternative 1

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	711	635	785	776	931	836	592	540	645	648	635	603
20%	681	603	766	750	875	799	537	526	638	648	604	586
30%	655	578	751	726	826	724	461	485	615	645	582	568
40%	623	564	734	713	786	681	398	429	564	636	573	551
50%	590	548	723	689	695	611	341	373	532	624	559	538
60%	569	529	710	677	626	494	309	356	485	614	545	521
70%	541	513	698	645	477	353	289	344	434	603	529	488
80%	520	488	668	574	328	306	260	294	380	581	454	478
90%	477	456	609	391	285	258	205	192	335	498	440	437
Long Term												
Full Simulation Period[b]	595	539	695	646	636	564	383	391	505	597	542	525
Water Year Types[c]												
Wet (23%)	475	442	598	525	490	431	325	353	439	574	514	489
Above Normal (24%)	549	512	686	654	622	543	383	402	534	614	541	532
Below Normal (10%)	604	561	727	692	702	627	353	369	496	590	520	518
Dry (16%)	641	573	705	659	635	533	370	356	473	580	533	500
Critical (27%)	715	621	770	719	753	692	452	442	556	614	579	565

Alternative 1 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	136	-4	-14	1	-10	-11	31	-28	-1	0	-1	-3
20%	121	-6	-18	-8	-23	-3	40	-21	-1	0	-5	0
30%	115	-9	-21	-20	-29	-13	53	-4	0	1	2	0
40%	104	-14	-33	-24	-16	-15	30	-5	-24	0	0	0
50%	87	-17	-39	-37	-1	-12	18	-5	-24	-1	1	0
60%	81	-24	-45	-32	-9	34	12	-4	-13	1	1	0
70%	68	-25	-38	-5	0	20	6	0	-22	1	6	-1
80%	63	-21	-42	-11	-1	10	0	0	-38	0	0	2
90%	48	-25	-20	-1	-1	-5	1	2	-26	7	8	-4
Long Term												
Full Simulation Period[b]	93	-15	-27	-14	-11	0	24	-10	-16	-2	3	-1
Water Year Types[c]												
Wet (23%)	48	-23	-36	-21	-19	6	26	2	-37	0	3	-1
Above Normal (24%)	70	-17	-30	-20	-15	-3	17	-12	-12	0	-1	-5
Below Normal (10%)	94	-22	-37	-25	-17	-3	30	-7	-14	-4	0	-1
Dry (16%)	108	-11	-21	-10	-5	-2	19	-10	-16	-4	8	1
Critical (27%)	144	-6	-15	-2	-1	-1	27	-21	-2	-3	4	2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.15.2. San Joaquin River at Vernalis, Monthly EC

No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	575	639	800	774	941	847	561	569	646	648	636	606
20%	560	608	784	758	898	803	498	547	639	648	609	586
30%	540	587	772	746	855	737	408	489	616	645	580	568
40%	519	579	766	737	802	696	368	435	588	636	573	551
50%	503	565	761	726	697	623	323	378	556	624	558	538
60%	488	552	755	709	635	460	298	360	498	613	544	521
70%	474	538	736	651	477	333	284	343	456	602	523	489
80%	456	509	710	585	329	296	261	293	417	581	455	476
90%	430	481	629	392	286	263	205	190	361	491	431	441
Long Term												
Full Simulation Period[b]	503	554	721	660	647	564	360	401	521	599	539	526
Water Year Types[c]												
Wet (23%)	427	465	633	546	508	425	299	351	476	574	512	490
Above Normal (24%)	479	530	716	673	637	546	366	414	546	614	541	537
Below Normal (10%)	509	583	764	717	719	630	323	375	510	594	520	519
Dry (16%)	533	585	726	669	639	535	350	366	489	584	525	499
Critical (27%)	571	627	784	721	754	694	425	462	558	617	575	564

Alternative 3

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	695	634	796	800	972	848	586	620	674	689	622	603
20%	671	599	768	781	916	805	499	585	650	667	604	586
30%	644	582	743	762	869	732	435	545	640	649	582	568
40%	613	564	735	736	818	702	391	509	627	640	573	552
50%	594	554	732	718	730	622	332	421	607	628	559	540
60%	567	538	727	698	636	503	305	381	584	617	548	522
70%	547	530	715	648	464	356	285	361	561	607	533	495
80%	519	496	693	582	321	306	260	302	512	586	457	482
90%	475	471	573	389	262	253	205	193	371	469	364	400
Long Term												
Full Simulation Period[b]	590	544	701	663	657	573	374	434	569	607	536	521
Water Year Types[c]												
Wet (23%)	477	455	609	526	478	437	321	395	548	582	511	490
Above Normal (24%)	547	519	695	670	634	547	369	436	587	625	537	528
Below Normal (10%)	608	568	736	723	733	645	337	413	536	591	509	508
Dry (16%)	635	572	702	684	666	535	361	395	525	581	524	497
Critical (27%)	699	622	773	742	802	711	443	493	605	633	574	561

Alternative 3 minus No Action Alternative

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	120	-5	-3	26	31	1	25	51	28	40	-14	-3
20%	111	-9	-16	23	17	2	2	37	11	19	-5	0
30%	104	-6	-29	16	14	-5	27	56	24	5	1	0
40%	94	-15	-31	-1	16	5	23	74	39	5	0	1
50%	91	-11	-29	-8	33	0	9	43	51	4	1	2
60%	79	-14	-29	-11	1	43	7	22	86	4	4	1
70%	73	-8	-22	-3	-13	23	2	18	104	6	10	6
80%	63	-12	-17	-3	-8	10	-1	9	94	5	3	6
90%	45	-10	-55	-3	-23	-10	0	3	10	-22	-67	-41
Long Term												
Full Simulation Period[b]	88	-10	-20	3	10	9	14	32	48	8	-3	-4
Water Year Types[c]												
Wet (23%)	50	-10	-24	-20	-30	12	22	44	72	8	0	0
Above Normal (24%)	68	-11	-21	-4	-3	1	3	22	41	11	-4	-9
Below Normal (10%)	98	-15	-27	6	13	15	14	38	26	-2	-10	-11
Dry (16%)	102	-13	-24	15	27	0	11	30	36	-3	-1	-2
Critical (27%)	128	-5	-12	21	48	17	18	31	47	16	-1	-2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.15.3. San Joaquin River at Vernalis, Monthly EC

No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	575	639	800	774	941	847	561	569	646	648	636	606
20%	560	608	784	758	898	803	498	547	639	648	609	586
30%	540	587	772	746	855	737	408	489	616	645	580	568
40%	519	579	766	737	802	696	368	435	588	636	573	551
50%	503	565	761	726	697	623	323	378	556	624	558	538
60%	488	552	755	709	635	460	298	360	498	613	544	521
70%	474	538	736	651	477	333	284	343	456	602	523	489
80%	456	509	710	585	329	296	261	293	417	581	455	476
90%	430	481	629	392	286	263	205	190	361	491	431	441
Long Term												
Full Simulation Period[b]	503	554	721	660	647	564	360	401	521	599	539	526
Water Year Types[c]												
Wet (23%)	427	465	633	546	508	425	299	351	476	574	512	490
Above Normal (24%)	479	530	716	673	637	546	366	414	546	614	541	537
Below Normal (10%)	509	583	764	717	719	630	323	375	510	594	520	519
Dry (16%)	533	585	726	669	639	535	350	366	489	584	525	499
Critical (27%)	571	627	784	721	754	694	425	462	558	617	575	564

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	576	638	800	774	941	847	481	525	644	649	639	611
20%	560	608	784	758	901	803	438	511	639	648	609	586
30%	548	588	772	746	855	737	390	467	624	645	580	568
40%	524	579	766	739	802	696	353	410	591	636	573	551
50%	503	565	761	727	697	623	326	367	555	624	558	538
60%	491	552	755	710	635	460	302	349	498	614	544	521
70%	475	538	739	651	477	333	284	331	455	603	524	489
80%	460	509	710	585	329	297	255	293	416	581	455	476
90%	430	481	628	392	286	264	205	190	361	500	433	437
Long Term												
Full Simulation Period[b]	504	554	721	661	649	565	339	383	525	602	543	527
Water Year Types[c]												
Wet (23%)	428	466	633	547	512	425	292	345	478	574	512	489
Above Normal (24%)	481	530	716	674	638	546	347	394	546	614	541	536
Below Normal (10%)	512	583	764	717	720	630	327	377	515	598	531	521
Dry (16%)	537	585	726	670	640	539	329	348	494	589	533	507
Critical (27%)	572	627	784	721	757	694	382	427	567	623	581	566

Alternative 5 minus No Action Alternative

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1	-1	0	0	0	0	-80	-44	-2	0	3	5
20%	0	0	0	0	3	0	-59	-37	0	0	0	0
30%	8	1	0	0	0	0	-18	-23	8	0	0	0
40%	5	0	0	2	0	0	-15	-25	4	0	0	0
50%	0	0	0	1	0	0	3	-11	-1	0	0	0
60%	3	0	0	1	0	0	4	-11	0	1	0	0
70%	1	0	2	0	0	0	0	-12	-1	1	0	0
80%	3	0	0	0	0	1	-6	0	-1	0	0	0
90%	0	0	-1	0	0	1	0	0	0	9	2	-4
Long Term												
Full Simulation Period[b]	2	0	0	0	2	1	-21	-18	4	3	4	2
Water Year Types[c]												
Wet (23%)	1	1	-1	2	3	0	-7	-5	2	1	1	-1
Above Normal (24%)	2	0	0	0	0	0	-19	-20	-1	0	0	-1
Below Normal (10%)	3	0	0	0	0	0	4	1	5	4	11	2
Dry (16%)	4	0	0	0	0	4	-22	-17	5	6	8	8
Critical (27%)	1	0	0	0	3	0	-43	-36	9	6	5	3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.15.4. San Joaquin River at Vernalis, Monthly EC

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	711	635	785	776	931	836	592	540	645	648	635	603
20%	681	603	766	750	875	799	537	526	638	648	604	586
30%	655	578	751	726	826	724	461	485	615	645	582	568
40%	623	564	734	713	786	681	398	429	564	636	573	551
50%	590	548	723	689	695	611	341	373	532	624	559	538
60%	569	529	710	677	626	494	309	356	485	614	545	521
70%	541	513	698	645	477	353	289	344	434	603	529	488
80%	520	488	668	574	328	306	260	294	380	581	454	478
90%	477	456	609	391	285	258	205	192	335	498	440	437
Long Term												
Full Simulation Period[b]	595	539	695	646	636	564	383	391	505	597	542	525
Water Year Types[c]												
Wet (23%)	475	442	598	525	490	431	325	353	439	574	514	489
Above Normal (24%)	549	512	686	654	622	543	383	402	534	614	541	532
Below Normal (10%)	604	561	727	692	702	627	353	369	496	590	520	518
Dry (16%)	641	573	705	659	635	533	370	356	473	580	533	500
Critical (27%)	715	621	770	719	753	692	452	442	556	614	579	565

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	575	639	800	774	941	847	561	569	646	648	636	606
20%	560	608	784	758	898	803	498	547	639	648	609	586
30%	540	587	772	746	855	737	408	489	616	645	580	568
40%	519	579	766	737	802	696	368	435	588	636	573	551
50%	503	565	761	726	697	623	323	378	556	624	558	538
60%	488	552	755	709	635	460	298	360	498	613	544	521
70%	474	538	736	651	477	333	284	343	456	602	523	489
80%	456	509	710	585	329	296	261	293	417	581	455	476
90%	430	481	629	392	286	263	205	190	361	491	431	441
Long Term												
Full Simulation Period[b]	503	554	721	660	647	564	360	401	521	599	539	526
Water Year Types[c]												
Wet (23%)	427	465	633	546	508	425	299	351	476	574	512	490
Above Normal (24%)	479	530	716	673	637	546	366	414	546	614	541	537
Below Normal (10%)	509	583	764	717	719	630	323	375	510	594	520	519
Dry (16%)	533	585	726	669	639	535	350	366	489	584	525	499
Critical (27%)	571	627	784	721	754	694	425	462	558	617	575	564

No Action Alternative minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly EC (UMHOS/CM)											
Probability of Exceedance[a]												
10%	-136	4	14	-1	10	11	-31	28	1	0	1	3
20%	-121	6	18	8	23	3	-40	21	1	0	5	0
30%	-115	9	21	20	29	13	-53	4	0	-1	-2	0
40%	-104	14	33	24	16	15	-30	5	24	0	0	0
50%	-87	17	39	37	1	12	-18	5	24	1	-1	0
60%	-81	24	45	32	9	-34	-12	4	13	-1	-1	0
70%	-68	25	38	5	0	-20	-6	0	22	-1	-6	1
80%	-63	21	42	11	1	-10	0	0	38	0	0	-2
90%	-48	25	20	1	1	5	-1	-2	26	-7	-8	4
Long Term												
Full Simulation Period[b]	-93	15	27	14	11	0	-24	10	16	2	-3	1
Water Year Types[c]												
Wet (23%)	-48	23	36	21	19	-6	-26	-2	37	0	-3	1
Above Normal (24%)	-70	17	30	20	15	3	-17	12	12	0	1	5
Below Normal (10%)	-94	22	37	25	17	3	-30	7	14	4	0	1
Dry (16%)	-108	11	21	10	5	2	-19	10	16	4	-8	-1
Critical (27%)	-144	6	15	2	1	1	-27	21	2	3	-4	-2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.15.5. San Joaquin River at Vernalis, Monthly EC

Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	711	635	785	776	931	836	592	540	645	648	635	603
20%	681	603	766	750	875	799	537	526	638	648	604	586
30%	655	578	751	726	826	724	461	485	615	645	582	568
40%	623	564	734	713	786	681	398	429	564	636	573	551
50%	590	548	723	689	695	611	341	373	532	624	559	538
60%	569	529	710	677	626	494	309	356	485	614	545	521
70%	541	513	698	645	477	353	289	344	434	603	529	488
80%	520	488	668	574	328	306	260	294	380	581	454	478
90%	477	456	609	391	285	258	205	192	335	498	440	437
Long Term												
Full Simulation Period[b]	595	539	695	646	636	564	383	391	505	597	542	525
Water Year Types[c]												
Wet (23%)	475	442	598	525	490	431	325	353	439	574	514	489
Above Normal (24%)	549	512	686	654	622	543	383	402	534	614	541	532
Below Normal (10%)	604	561	727	692	702	627	353	369	496	590	520	518
Dry (16%)	641	573	705	659	635	533	370	356	473	580	533	500
Critical (27%)	715	621	770	719	753	692	452	442	556	614	579	565

Alternative 3

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	695	634	796	800	972	848	586	620	674	689	622	603
20%	671	599	768	781	916	805	499	585	650	667	604	586
30%	644	582	743	762	869	732	435	545	640	649	582	568
40%	613	564	735	736	818	702	391	509	627	640	573	552
50%	594	554	732	718	730	622	332	421	607	628	559	540
60%	567	538	727	698	636	503	305	381	584	617	548	522
70%	547	530	715	648	464	356	285	361	561	607	533	495
80%	519	496	693	582	321	306	260	302	512	586	457	482
90%	475	471	573	389	262	253	205	193	371	469	364	400
Long Term												
Full Simulation Period[b]	590	544	701	663	657	573	374	434	569	607	536	521
Water Year Types[c]												
Wet (23%)	477	455	609	526	478	437	321	395	548	582	511	490
Above Normal (24%)	547	519	695	670	634	547	369	436	587	625	537	528
Below Normal (10%)	608	568	736	723	733	645	337	413	536	591	509	508
Dry (16%)	635	572	702	684	666	535	361	395	525	581	524	497
Critical (27%)	699	622	773	742	802	711	443	493	605	633	574	561

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly EC (UMHOS/CM) Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-16	-1	11	24	40	11	-7	80	30	40	-13	0
20%	-10	-4	3	32	40	6	-38	58	12	19	0	0
30%	-11	3	-8	36	43	8	-26	60	25	4	0	0
40%	-10	0	2	23	32	20	-6	79	63	4	0	1
50%	4	6	9	29	35	11	-8	48	75	5	1	2
60%	-2	10	17	21	10	9	-4	25	98	3	3	1
70%	6	17	17	3	-13	3	-4	17	126	4	4	6
80%	0	8	24	9	-7	0	-1	9	132	5	3	4
90%	-3	15	-35	-2	-22	-5	0	1	36	-29	-75	-37
Long Term												
Full Simulation Period[b]	-5	6	6	17	21	9	-10	42	64	10	-5	-4
Water Year Types[c]												
Wet (23%)	2	14	12	1	-12	6	-4	42	109	8	-3	0
Above Normal (24%)	-2	7	9	16	12	4	-14	34	53	11	-4	-4
Below Normal (10%)	4	7	10	31	31	17	-16	44	40	1	-11	-10
Dry (16%)	-6	-2	-3	25	32	3	-8	39	52	1	-9	-3
Critical (27%)	-16	1	3	23	49	18	-9	52	49	19	-5	-4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.15.6. San Joaquin River at Vernalis, Monthly EC

Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	711	635	785	776	931	836	592	540	645	648	635	603
20%	681	603	766	750	875	799	537	526	638	648	604	586
30%	655	578	751	726	826	724	461	485	615	645	582	568
40%	623	564	734	713	786	681	398	429	564	636	573	551
50%	590	548	723	689	695	611	341	373	532	624	559	538
60%	569	529	710	677	626	494	309	356	485	614	545	521
70%	541	513	698	645	477	353	289	344	434	603	529	488
80%	520	488	668	574	328	306	260	294	380	581	454	478
90%	477	456	609	391	285	258	205	192	335	498	440	437
Long Term												
Full Simulation Period[b]	595	539	695	646	636	564	383	391	505	597	542	525
Water Year Types[c]												
Wet (23%)	475	442	598	525	490	431	325	353	439	574	514	489
Above Normal (24%)	549	512	686	654	622	543	383	402	534	614	541	532
Below Normal (10%)	604	561	727	692	702	627	353	369	496	590	520	518
Dry (16%)	641	573	705	659	635	533	370	356	473	580	533	500
Critical (27%)	715	621	770	719	753	692	452	442	556	614	579	565

Alternative 5

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	576	638	800	774	941	847	481	525	644	649	639	611
20%	560	608	784	758	901	803	438	511	639	648	609	586
30%	548	588	772	746	855	737	390	467	624	645	580	568
40%	524	579	766	739	802	696	353	410	591	636	573	551
50%	503	565	761	727	697	623	326	367	555	624	558	538
60%	491	552	755	710	635	460	302	349	498	614	544	521
70%	475	538	739	651	477	333	284	331	455	603	524	489
80%	460	509	710	585	329	297	255	293	416	581	455	476
90%	430	481	628	392	286	264	205	190	361	500	433	437
Long Term												
Full Simulation Period[b]	504	554	721	661	649	565	339	383	525	602	543	527
Water Year Types[c]												
Wet (23%)	428	466	633	547	512	425	292	345	478	574	512	489
Above Normal (24%)	481	530	716	674	638	546	347	394	546	614	541	536
Below Normal (10%)	512	583	764	717	720	630	327	377	515	598	531	521
Dry (16%)	537	585	726	670	640	539	329	348	494	589	533	507
Critical (27%)	572	627	784	721	757	694	382	427	567	623	581	566

Alternative 5 minus Second Basis of Comparison

	Monthly EC (UMHOS/CM)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-135	**3**	**14**	-1	**10**	**11**	-111	-16	-1	**0**	**4**	**7**
20%	-121	**6**	**18**	**8**	**26**	**3**	-99	-15	**0**	**0**	**5**	0
30%	-107	**10**	**21**	**20**	**29**	**13**	-72	-18	**9**	-1	-2	0
40%	-99	**15**	**33**	**25**	**16**	**15**	-45	-20	**28**	0	0	**0**
50%	-87	**17**	**39**	**38**	**1**	**12**	-15	-5	**23**	**1**	-1	0
60%	-78	**24**	**45**	**32**	**9**	-34	-8	-8	**13**	**0**	-1	0
70%	-66	**25**	**41**	**5**	0	-20	-5	-12	**21**	**0**	-6	**0**
80%	-60	**21**	**42**	**11**	**1**	-9	-5	0	**37**	**0**	**0**	-2
90%	-48	**25**	**19**	**1**	**1**	**6**	0	-2	**26**	**2**	-7	**0**
Long Term												
Full Simulation Period[b]	-91	**16**	**26**	**15**	**13**	**1**	-44	-8	**20**	**5**	**1**	**2**
Water Year Types[c]												
Wet (23%)	-47	**24**	**35**	**22**	**22**	-6	-33	-8	**39**	**0**	-2	-1
Above Normal (24%)	-68	**17**	**30**	**20**	**15**	**3**	-36	-8	**12**	0	**1**	**4**
Below Normal (10%)	-91	**22**	**37**	**25**	**18**	**3**	-26	**8**	**19**	**8**	**11**	**3**
Dry (16%)	-104	**11**	**21**	**10**	**5**	**6**	-41	-8	**21**	**10**	0	**7**
Critical (27%)	-143	**6**	**15**	**2**	**4**	**2**	-70	-15	**11**	**9**	**2**	**1**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period

c As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.16. Sacramento River at Mallard Slough Chloride Concentration

Table 6E.B.16.1. Sacramento River at Mallard Slough, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,292.5	4,377.7	3,764.3	2,376.9	1,054.1	873.1	1,185.6	1,568.7	2,001.4	2,779.5	3,422.7	3,859.9
20%	3,943.4	3,866.0	3,185.1	2,012.0	596.0	606.6	708.9	1,319.2	1,789.0	2,422.7	3,081.0	3,621.1
30%	3,900.3	3,740.2	2,264.3	1,602.9	300.9	228.7	473.0	1,094.6	1,660.3	2,228.7	2,946.1	3,512.6
40%	3,808.2	3,193.4	1,941.4	890.4	164.1	168.9	268.0	615.5	1,503.1	1,801.5	2,543.1	3,297.9
50%	3,486.5	1,721.7	1,718.4	642.6	82.0	71.9	161.4	441.4	1,191.4	1,584.4	2,305.5	2,954.9
60%	1,745.2	1,626.4	1,515.8	283.8	27.0	29.8	73.6	254.5	1,093.0	1,251.5	2,220.2	1,631.3
70%	854.0	845.9	611.7	45.6	20.6	19.3	39.2	161.8	824.1	1,158.1	2,121.0	890.8
80%	820.0	768.0	196.6	20.8	18.3	17.6	20.2	48.8	484.0	1,052.1	2,001.6	809.6
90%	780.5	722.2	40.8	17.2	16.8	16.8	17.4	17.7	121.2	901.5	1,919.2	787.5
Long Term												
Full Simulation Period[b]	2,564.0	2,295.0	1,749.1	962.9	377.6	279.6	390.3	668.5	1,239.7	1,711.5	2,511.6	2,359.4
Water Year Types[c]												
Wet (32%)	1,888.6	1,477.4	566.7	169.3	27.4	33.4	52.6	127.0	528.9	928.7	1,983.6	801.7
Above Normal (16%)	3,098.5	2,363.8	1,549.1	401.8	87.3	58.2	91.1	267.5	1,012.2	1,203.8	2,037.2	1,633.3
Below Normal (13%)	1,919.6	1,837.8	1,847.7	1,172.0	436.7	381.6	467.7	759.6	1,415.1	1,641.1	2,356.3	3,172.4
Dry (24%)	2,783.4	2,701.6	2,477.6	1,537.9	560.5	314.7	493.3	905.0	1,528.1	2,297.7	2,986.8	3,495.0
Critical (15%)	3,673.1	3,733.3	3,223.1	2,140.1	1,091.9	901.1	1,203.8	1,798.4	2,384.5	3,044.6	3,519.7	3,883.2

Alternative 1

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,250.7	4,314.5	3,765.9	3,038.4	1,582.1	1,184.6	1,254.0	1,619.2	2,008.3	2,762.1	3,502.7	3,858.6
20%	3,909.5	3,848.8	3,725.0	2,663.1	889.8	672.9	894.9	1,343.2	1,733.9	2,436.3	3,135.8	3,648.2
30%	3,810.5	3,765.9	3,464.4	2,225.6	562.1	301.0	701.2	1,225.3	1,554.4	2,263.5	3,022.9	3,516.2
40%	3,749.6	3,691.9	3,277.4	1,482.1	252.6	238.4	478.8	845.2	1,312.4	1,778.6	2,660.3	3,332.3
50%	3,631.4	3,584.4	2,841.3	991.3	136.5	110.1	318.6	677.3	1,184.6	1,615.7	2,369.1	3,151.6
60%	3,530.3	3,431.9	2,092.8	439.3	44.9	29.4	165.0	449.0	1,054.1	1,358.6	2,226.2	3,030.1
70%	3,459.6	3,363.6	1,104.9	62.1	20.6	19.4	57.9	305.4	850.2	1,267.7	2,170.8	2,985.5
80%	3,338.6	3,067.7	480.2	23.2	18.5	17.8	21.6	76.5	576.7	1,087.7	2,106.7	2,918.2
90%	2,991.4	1,664.6	106.4	17.3	16.6	17.0	17.2	18.1	132.3	915.0	1,972.8	2,820.6
Long Term												
Full Simulation Period[b]	3,528.9	3,257.1	2,292.5	1,249.8	502.1	341.2	481.9	780.9	1,213.0	1,747.8	2,572.0	3,187.6
Water Year Types[c]												
Wet (32%)	3,181.2	2,759.1	923.1	253.4	33.7	36.7	93.2	202.4	520.6	979.9	2,025.4	2,681.5
Above Normal (16%)	3,740.6	3,172.3	2,232.7	622.5	133.6	65.4	173.0	431.3	961.6	1,249.8	2,121.9	2,978.5
Below Normal (13%)	3,399.8	3,040.6	2,599.9	1,756.2	676.2	455.5	618.7	915.8	1,259.8	1,675.1	2,482.8	3,224.3
Dry (24%)	3,676.1	3,632.6	3,163.9	2,015.6	744.8	404.7	613.8	1,009.1	1,515.1	2,302.0	3,037.0	3,536.5
Critical (15%)	3,926.2	4,001.0	3,590.2	2,347.6	1,352.3	1,089.4	1,313.8	1,908.7	2,439.3	3,093.9	3,551.0	3,895.6

Alternative 1 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-41.8	-63.2	1.6	661.6	528.0	311.4	68.4	50.5	6.9	-17.3	80.0	-1.4
20%	-33.9	-17.2	539.9	651.2	293.8	66.3	186.0	24.1	-55.1	13.6	54.8	27.1
30%	-89.8	25.7	1,200.1	622.7	261.2	72.3	228.2	130.7	-105.9	34.8	76.7	3.6
40%	-58.6	498.5	1,336.0	591.7	88.5	69.6	210.8	229.6	-190.7	-22.9	117.2	34.4
50%	144.9	1,862.7	1,123.0	348.7	54.5	38.2	157.2	235.8	-6.8	31.2	63.7	196.7
60%	1,785.1	1,805.5	577.1	155.5	17.9	-0.4	91.4	194.6	-38.9	107.0	6.1	1,398.8
70%	2,605.6	2,517.6	493.2	16.5	-0.1	0.2	18.8	143.6	26.1	109.6	49.8	2,094.8
80%	2,518.6	2,299.7	283.6	2.4	0.2	0.3	1.4	27.7	92.6	35.6	105.2	2,108.6
90%	2,210.9	942.4	65.6	0.1	-0.1	0.3	-0.2	0.5	11.0	13.6	53.5	2,033.1
Long Term												
Full Simulation Period[b]	965.0	962.2	543.4	286.9	124.5	61.6	91.6	112.4	-26.6	36.3	60.5	828.2
Water Year Types[c]												
Wet (32%)	1,292.6	1,281.7	356.4	84.1	6.3	3.3	40.5	75.3	-8.3	51.2	41.8	1,879.8
Above Normal (16%)	642.1	808.5	683.6	220.7	46.4	7.2	81.9	163.8	-50.6	46.0	84.7	1,345.2
Below Normal (13%)	1,480.2	1,202.8	752.3	584.3	239.5	73.9	151.0	156.2	-155.3	34.0	126.5	51.9
Dry (24%)	892.7	930.9	686.2	477.8	184.3	89.9	120.6	104.1	-13.0	4.2	50.1	41.5
Critical (15%)	253.1	267.6	367.0	207.4	260.4	188.3	110.0	110.4	54.8	49.3	31.3	12.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.16.2. Sacramento River at Mallard Slough, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,292.5	4,377.7	3,764.3	2,376.9	1,054.1	873.1	1,185.6	1,568.7	2,001.4	2,779.5	3,422.7	3,859.9
20%	3,943.4	3,866.0	3,185.1	2,012.0	596.0	606.6	708.9	1,319.2	1,789.0	2,422.7	3,081.0	3,621.1
30%	3,900.3	3,740.2	2,264.3	1,602.9	300.9	228.7	473.0	1,094.6	1,660.3	2,228.7	2,946.1	3,512.6
40%	3,808.2	3,193.4	1,941.4	890.4	164.1	168.9	268.0	615.5	1,503.1	1,801.5	2,543.1	3,297.9
50%	3,486.5	1,721.7	1,718.4	642.6	82.0	71.9	161.4	441.4	1,191.4	1,584.4	2,305.5	2,954.9
60%	1,745.2	1,626.4	1,515.8	283.8	27.0	29.8	73.6	254.5	1,093.0	1,251.5	2,220.2	1,631.3
70%	854.0	845.9	611.7	45.6	20.6	19.3	39.2	161.8	824.1	1,158.1	2,121.0	890.8
80%	820.0	768.0	196.6	20.8	18.3	17.6	20.2	48.8	484.0	1,052.1	2,001.6	809.6
90%	780.5	722.2	40.8	17.2	16.8	16.8	17.4	17.7	121.2	901.5	1,919.2	787.5
Long Term												
Full Simulation Period[b]	2,564.0	2,295.0	1,749.1	962.9	377.6	279.6	390.3	668.5	1,239.7	1,711.5	2,511.6	2,359.4
Water Year Types[c]												
Wet (32%)	1,888.6	1,477.4	566.7	169.3	27.4	33.4	52.6	127.0	528.9	928.7	1,983.6	801.7
Above Normal (16%)	3,098.5	2,363.8	1,549.1	401.8	87.3	58.2	91.1	267.5	1,012.2	1,203.8	2,037.2	1,633.3
Below Normal (13%)	1,919.6	1,837.8	1,847.7	1,172.0	436.7	381.6	467.7	759.6	1,415.1	1,641.1	2,356.3	3,172.4
Dry (24%)	2,783.4	2,701.6	2,477.6	1,537.9	560.5	314.7	493.3	905.0	1,528.1	2,297.7	2,986.8	3,495.0
Critical (15%)	3,673.1	3,733.3	3,223.1	2,140.1	1,091.9	901.1	1,203.8	1,798.4	2,384.5	3,044.6	3,519.7	3,883.2

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,241.2	4,380.5	3,774.2	2,674.8	1,113.8	871.9	1,160.2	1,661.6	1,999.3	2,747.5	3,459.4	3,894.2
20%	3,942.9	3,891.3	3,669.5	2,291.5	598.5	599.4	848.3	1,354.1	1,809.5	2,425.3	3,114.3	3,630.4
30%	3,867.4	3,777.0	3,468.7	1,964.3	323.1	232.3	578.0	1,208.5	1,665.0	2,269.3	2,932.5	3,524.6
40%	3,744.8	3,705.3	3,158.9	999.4	205.4	176.6	439.0	911.8	1,542.5	1,746.6	2,532.3	3,242.2
50%	3,609.3	3,626.2	2,821.5	692.6	92.5	85.8	296.3	742.2	1,316.8	1,593.4	2,270.5	3,085.0
60%	3,497.6	3,451.7	2,109.0	281.2	23.6	30.6	156.3	502.5	1,135.9	1,282.2	2,211.4	2,991.8
70%	3,448.6	3,357.6	814.4	43.8	20.2	19.0	69.2	307.7	916.2	1,182.9	2,097.0	2,920.9
80%	3,343.9	3,048.0	458.6	20.7	18.2	17.7	20.7	105.4	632.0	1,104.6	2,039.3	2,890.5
90%	3,058.9	1,584.8	105.3	17.1	16.7	16.9	17.0	18.4	169.3	924.6	1,892.4	2,822.4
Long Term												
Full Simulation Period[b]	3,547.9	3,288.1	2,246.6	1,070.7	384.1	280.8	450.5	792.7	1,294.1	1,727.0	2,522.0	3,163.0
Water Year Types[c]												
Wet (32%)	3,165.3	2,778.1	880.0	195.1	28.7	38.5	93.3	227.1	597.8	957.8	1,971.7	2,666.5
Above Normal (16%)	3,808.5	3,200.3	2,130.3	461.7	80.1	57.0	160.9	454.5	1,075.0	1,228.0	2,069.6	2,957.6
Below Normal (13%)	3,450.9	3,103.8	2,605.7	1,364.5	447.1	379.0	572.2	937.3	1,483.4	1,641.2	2,342.5	3,106.0
Dry (24%)	3,668.3	3,656.4	3,140.2	1,718.9	558.2	314.6	560.5	1,024.8	1,565.7	2,280.4	3,006.5	3,527.8
Critical (15%)	3,982.6	4,043.8	3,514.9	2,278.3	1,135.5	901.8	1,243.4	1,865.2	2,413.9	3,090.7	3,561.1	3,905.5

Alternative 3 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-51.2	2.8	9.9	298.0	59.7	-1.2	-25.4	92.8	-2.0	-32.0	36.7	34.3
20%	-0.5	25.3	484.4	279.5	2.5	-7.2	139.3	34.9	20.5	2.6	33.3	9.3
30%	-32.9	36.8	1,204.4	361.4	22.1	3.6	104.9	113.9	4.7	40.6	-13.6	12.0
40%	-63.4	511.9	1,217.5	109.0	41.4	7.7	171.0	296.2	39.4	-54.9	-10.7	-55.7
50%	122.8	1,904.5	1,103.2	50.0	10.6	13.9	135.0	300.8	125.4	8.9	-35.0	130.1
60%	1,752.4	1,825.4	593.2	-2.6	-3.4	0.8	82.6	248.1	42.8	30.6	-8.8	1,360.5
70%	2,594.5	2,511.7	202.7	-1.8	-0.5	-0.3	30.0	145.9	92.1	24.8	-24.0	2,030.2
80%	2,523.8	2,280.1	262.0	0.0	0.0	0.2	0.5	56.7	147.9	52.5	37.7	2,080.9
90%	2,278.4	862.6	64.6	0.0	-0.1	0.1	-0.4	0.8	48.0	23.1	-26.8	2,035.0
Long Term												
Full Simulation Period[b]	983.9	993.2	497.5	107.9	6.5	1.1	60.2	124.2	54.4	15.6	10.4	803.6
Water Year Types[c]												
Wet (32%)	1,276.7	1,300.7	313.4	25.8	1.3	5.1	40.7	100.0	68.9	29.0	-11.9	1,864.8
Above Normal (16%)	710.0	836.4	581.2	59.8	-7.2	-1.2	69.7	187.0	62.8	24.2	32.4	1,324.4
Below Normal (13%)	1,531.4	1,266.0	758.1	192.6	10.5	-2.6	104.4	177.7	68.3	0.1	-13.8	-66.4
Dry (24%)	884.9	954.7	662.6	181.0	-2.3	-0.1	67.3	119.8	37.7	-17.3	19.6	32.8
Critical (15%)	309.5	310.4	291.8	138.2	43.6	0.7	39.6	66.8	29.4	46.1	41.4	22.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.16.3. Sacramento River at Mallard Slough, Monthly Chloride Concentration

No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,292.5	4,377.7	3,764.3	2,376.9	1,054.1	873.1	1,185.6	1,568.7	2,001.4	2,779.5	3,422.7	3,859.9
20%	3,943.4	3,866.0	3,185.1	2,012.0	596.0	606.6	708.9	1,319.2	1,789.0	2,422.7	3,081.0	3,621.1
30%	3,900.3	3,740.2	2,264.3	1,602.9	300.9	228.7	473.0	1,094.6	1,660.3	2,228.7	2,946.1	3,512.6
40%	3,808.2	3,193.4	1,941.4	890.4	164.1	168.9	268.0	615.5	1,503.1	1,801.5	2,543.1	3,297.9
50%	3,486.5	1,721.7	1,718.4	642.6	82.0	71.9	161.4	441.4	1,191.4	1,584.4	2,305.5	2,954.9
60%	1,745.2	1,626.4	1,515.8	283.8	27.0	29.8	73.6	254.5	1,093.0	1,251.5	2,220.2	1,631.3
70%	854.0	845.9	611.7	45.6	20.6	19.3	39.2	161.8	824.1	1,158.1	2,121.0	890.8
80%	820.0	768.0	196.6	20.8	18.3	17.6	20.2	48.8	484.0	1,052.1	2,001.6	809.6
90%	780.5	722.2	40.8	17.2	16.8	16.8	17.4	17.7	121.2	901.5	1,919.2	787.5
Long Term												
Full Simulation Period[b]	2,564.0	2,295.0	1,749.1	962.9	377.6	279.6	390.3	668.5	1,239.7	1,711.5	2,511.6	2,359.4
Water Year Types[c]												
Wet (32%)	1,888.6	1,477.4	566.7	169.3	27.4	33.4	52.6	127.0	528.9	928.7	1,983.6	801.7
Above Normal (16%)	3,098.5	2,363.8	1,549.1	401.8	87.3	58.2	91.1	267.5	1,012.2	1,203.8	2,037.2	1,633.3
Below Normal (13%)	1,919.6	1,837.8	1,847.7	1,172.0	436.7	381.6	467.7	759.6	1,415.1	1,641.1	2,356.3	3,172.4
Dry (24%)	2,783.4	2,701.6	2,477.6	1,537.9	560.5	314.7	493.3	905.0	1,528.1	2,297.7	2,986.8	3,495.0
Critical (15%)	3,673.1	3,733.3	3,223.1	2,140.1	1,091.9	901.1	1,203.8	1,798.4	2,384.5	3,044.6	3,519.7	3,883.2

Alternative 5

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,293.7	4,345.7	3,764.7	2,374.0	1,056.9	874.4	1,014.1	1,313.3	1,961.5	2,775.6	3,404.4	3,826.0
20%	3,966.6	3,872.0	3,135.0	2,018.5	597.5	606.8	659.9	1,137.6	1,699.1	2,376.0	3,096.7	3,606.0
30%	3,896.2	3,740.9	2,268.7	1,603.0	300.1	233.1	433.7	942.9	1,640.7	2,211.4	2,939.6	3,527.3
40%	3,783.0	3,184.6	1,940.6	890.2	163.3	168.9	243.9	579.5	1,435.9	1,793.9	2,534.8	3,286.5
50%	3,442.7	1,713.0	1,722.2	644.3	81.9	75.1	162.6	414.0	1,198.2	1,586.2	2,310.1	2,920.1
60%	1,745.8	1,607.6	1,515.1	283.0	26.9	29.7	75.3	265.3	1,092.5	1,257.2	2,206.0	1,645.4
70%	853.7	845.8	602.4	44.9	20.7	19.3	39.2	150.4	815.7	1,158.4	2,108.8	889.6
80%	822.4	768.2	198.5	20.6	18.3	17.6	20.3	44.2	479.2	1,056.3	1,987.2	811.7
90%	779.1	722.7	44.2	17.2	16.8	16.8	17.4	17.7	121.5	905.1	1,921.1	790.3
Long Term												
Full Simulation Period[b]	2,561.5	2,286.6	1,749.0	970.3	384.0	280.7	351.0	596.7	1,199.6	1,695.3	2,497.3	2,355.7
Water Year Types[c]												
Wet (32%)	1,888.0	1,483.3	567.3	169.1	27.3	33.3	51.7	118.7	525.6	917.9	1,966.9	801.3
Above Normal (16%)	3,093.7	2,312.9	1,531.9	401.2	87.3	58.3	90.5	258.4	1,006.5	1,203.4	2,036.7	1,638.7
Below Normal (13%)	1,922.9	1,839.4	1,849.4	1,173.8	436.3	381.4	421.2	685.0	1,391.6	1,634.0	2,343.2	3,151.1
Dry (24%)	2,780.3	2,695.5	2,486.2	1,546.8	563.2	315.7	422.6	795.8	1,478.1	2,284.1	2,974.6	3,493.1
Critical (15%)	3,664.9	3,727.3	3,223.7	2,175.6	1,131.4	906.8	1,097.6	1,586.2	2,229.1	2,987.1	3,491.1	3,875.3

Alternative 5 minus No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1.2	-32.0	0.3	-2.8	2.8	1.2	-171.5	-255.5	-39.9	-3.9	-18.4	-34.0
20%	23.2	6.0	-50.1	6.5	1.5	0.1	-49.1	-181.6	-89.9	-46.7	15.7	-15.2
30%	-4.1	0.7	4.4	0.0	-0.8	4.4	-39.3	-151.7	-19.5	-17.2	-6.5	14.7
40%	-25.2	-8.7	-0.8	-0.2	-0.8	0.1	-24.1	-36.0	-67.2	-7.6	-8.2	-11.4
50%	-43.8	-8.8	3.9	1.8	-0.1	3.2	1.2	-27.5	6.8	1.8	4.6	-34.8
60%	0.5	-18.8	-0.6	-0.8	-0.2	-0.1	1.6	10.8	-0.5	5.7	-14.2	14.1
70%	-0.3	-0.1	-9.3	-0.8	0.0	0.0	0.0	-11.4	-8.4	0.3	-12.2	-1.2
80%	2.4	0.3	1.9	-0.1	0.0	0.0	0.2	-4.5	-4.8	4.2	-14.4	2.1
90%	-1.4	0.5	3.5	0.0	0.0	0.0	0.0	0.0	0.2	3.7	1.8	2.9
Long Term												
Full Simulation Period[b]	-2.5	-8.3	-0.1	7.4	6.4	1.0	-39.4	-71.8	-40.0	-16.2	-14.3	-3.7
Water Year Types[c]												
Wet (32%)	-0.6	6.0	0.7	-0.2	0.0	-0.1	-0.9	-8.4	-3.3	-10.8	-16.7	-0.4
Above Normal (16%)	-4.8	-51.0	-17.2	-0.7	0.0	0.1	-0.6	-9.0	-5.7	-0.4	-0.5	5.4
Below Normal (13%)	3.4	1.6	1.7	1.9	-0.4	-0.2	-46.5	-74.6	-23.5	-7.1	-13.1	-21.3
Dry (24%)	-3.1	-6.1	8.6	8.9	2.7	1.0	-70.7	-109.3	-50.0	-13.6	-12.2	-1.9
Critical (15%)	-8.2	-6.1	0.5	35.4	39.5	5.8	-106.2	-212.2	-155.4	-57.5	-28.5	-7.9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.16.4. Sacramento River at Mallard Slough, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,250.7	4,314.5	3,765.9	3,038.4	1,582.1	1,184.6	1,254.0	1,619.2	2,008.3	2,762.1	3,502.7	3,858.6
20%	3,909.5	3,848.8	3,725.0	2,663.1	889.8	672.9	894.9	1,343.2	1,733.9	2,436.3	3,135.8	3,648.2
30%	3,810.5	3,765.9	3,464.4	2,225.6	562.1	301.0	701.2	1,225.3	1,554.4	2,263.5	3,022.9	3,516.2
40%	3,749.6	3,691.9	3,277.4	1,482.1	252.6	238.4	478.8	845.2	1,312.4	1,778.6	2,660.3	3,332.3
50%	3,631.4	3,584.4	2,841.3	991.3	136.5	110.1	318.6	677.3	1,184.6	1,615.7	2,369.1	3,151.6
60%	3,530.3	3,431.9	2,092.8	439.3	44.9	29.4	165.0	449.0	1,054.1	1,358.6	2,226.2	3,030.1
70%	3,459.6	3,363.6	1,104.9	62.1	20.6	19.4	57.9	305.4	850.2	1,267.7	2,170.8	2,985.5
80%	3,338.6	3,067.7	480.2	23.2	18.5	17.8	21.6	76.5	576.7	1,087.7	2,106.7	2,918.2
90%	2,991.4	1,664.6	106.4	17.3	16.6	17.0	17.2	18.1	132.3	915.0	1,972.8	2,820.6
Long Term												
Full Simulation Period[b]	3,528.9	3,257.1	2,292.5	1,249.8	502.1	341.2	481.9	780.9	1,213.0	1,747.8	2,572.0	3,187.6
Water Year Types[c]												
Wet (32%)	3,181.2	2,759.1	923.1	253.4	33.7	36.7	93.2	202.4	520.6	979.9	2,025.4	2,681.5
Above Normal (16%)	3,740.6	3,172.3	2,232.7	622.5	133.6	65.4	173.0	431.3	961.6	1,249.8	2,121.9	2,978.5
Below Normal (13%)	3,399.8	3,040.6	2,599.9	1,756.2	676.2	455.5	618.7	915.8	1,259.8	1,675.1	2,482.8	3,224.3
Dry (24%)	3,676.1	3,632.6	3,163.9	2,015.6	744.8	404.7	613.8	1,009.1	1,515.1	2,302.0	3,037.0	3,536.5
Critical (15%)	3,926.2	4,001.0	3,590.2	2,347.6	1,352.3	1,089.4	1,313.8	1,908.7	2,439.3	3,093.9	3,551.0	3,895.6

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,292.5	4,377.7	3,764.3	2,376.9	1,054.1	873.1	1,185.6	1,568.7	2,001.4	2,779.5	3,422.7	3,859.9
20%	3,943.4	3,866.0	3,185.1	2,012.0	596.0	606.6	708.9	1,319.2	1,789.0	2,422.7	3,081.0	3,621.1
30%	3,900.3	3,740.2	2,264.3	1,602.9	300.9	228.7	473.0	1,094.6	1,660.3	2,228.7	2,946.1	3,512.6
40%	3,808.2	3,193.4	1,941.4	890.4	164.1	168.9	268.0	615.5	1,503.1	1,801.5	2,543.1	3,297.9
50%	3,486.5	1,721.7	1,718.4	642.6	82.0	71.9	161.4	441.4	1,191.4	1,584.4	2,305.5	2,954.9
60%	1,745.2	1,626.4	1,515.8	283.8	27.0	29.8	73.6	254.5	1,093.0	1,251.5	2,220.2	1,631.3
70%	854.0	845.9	611.7	45.6	20.6	19.3	39.2	161.8	824.1	1,158.1	2,121.0	890.8
80%	820.0	768.0	196.6	20.8	18.3	17.6	20.2	48.8	484.0	1,052.1	2,001.6	809.6
90%	780.5	722.2	40.8	17.2	16.8	16.8	17.4	17.7	121.2	901.5	1,919.2	787.5
Long Term												
Full Simulation Period[b]	2,564.0	2,295.0	1,749.1	962.9	377.6	279.6	390.3	668.5	1,239.7	1,711.5	2,511.6	2,359.4
Water Year Types[c]												
Wet (32%)	1,888.6	1,477.4	566.7	169.3	27.4	33.4	52.6	127.0	528.9	928.7	1,983.6	801.7
Above Normal (16%)	3,098.5	2,363.8	1,549.1	401.8	87.3	58.2	91.1	267.5	1,012.2	1,203.8	2,037.2	1,633.3
Below Normal (13%)	1,919.6	1,837.8	1,847.7	1,172.0	436.7	381.6	467.7	759.6	1,415.1	1,641.1	2,356.3	3,172.4
Dry (24%)	2,783.4	2,701.6	2,477.6	1,537.9	560.5	314.7	493.3	905.0	1,528.1	2,297.7	2,986.8	3,495.0
Critical (15%)	3,673.1	3,733.3	3,223.1	2,140.1	1,091.9	901.1	1,203.8	1,798.4	2,384.5	3,044.6	3,519.7	3,883.2

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	41.8	63.2	-1.6	-661.6	-528.0	-311.4	-68.4	-50.5	-6.9	17.3	-80.0	1.4
20%	33.9	17.2	-539.9	-651.2	-293.8	-66.3	-186.0	-24.1	55.1	-13.6	-54.8	-27.1
30%	89.8	-25.7	-1,200.1	-622.7	-261.2	-72.3	-228.2	-130.7	105.9	-34.8	-76.7	-3.6
40%	58.6	-498.5	-1,336.0	-591.7	-88.5	-69.6	-210.8	-229.6	190.7	22.9	-117.2	-34.4
50%	-144.9	-1,862.7	-1,123.0	-348.7	-54.5	-38.2	-157.2	-235.8	6.8	-31.2	-63.7	-196.7
60%	-1,785.1	-1,805.5	-577.1	-155.5	-17.9	0.4	-91.4	-194.6	38.9	-107.0	-6.1	-1,398.8
70%	-2,605.6	-2,517.6	-493.2	-16.5	0.1	-0.2	-18.8	-143.6	-26.1	-109.6	-49.8	-2,094.8
80%	-2,518.6	-2,299.7	-283.6	-2.4	-0.2	-0.3	-1.4	-27.7	-92.6	-35.6	-105.2	-2,108.6
90%	-2,210.9	-942.4	-65.6	-0.1	0.1	-0.3	0.2	-0.5	-11.0	-13.6	-53.5	-2,033.1
Long Term												
Full Simulation Period[b]	-965.0	-962.2	-543.4	-286.9	-124.5	-61.6	-91.6	-112.4	26.6	-36.3	-60.5	-828.2
Water Year Types[c]												
Wet (32%)	-1,292.6	-1,281.7	-356.4	-84.1	-6.3	-3.3	-40.5	-75.3	8.3	-51.2	-41.8	-1,879.8
Above Normal (16%)	-642.1	-808.5	-683.6	-220.7	-46.4	-7.2	-81.9	-163.8	50.6	-46.0	-84.7	-1,345.2
Below Normal (13%)	-1,480.2	-1,202.8	-752.3	-584.3	-239.5	-73.9	-151.0	-156.2	155.3	-34.0	-126.5	-51.9
Dry (24%)	-892.7	-930.9	-686.2	-477.8	-184.3	-89.9	-120.6	-104.1	13.0	-4.2	-50.1	-41.5
Critical (15%)	-253.1	-267.6	-367.0	-207.4	-260.4	-188.3	-110.0	-110.4	-54.8	-49.3	-31.3	-12.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.16.5. Sacramento River at Mallard Slough, Monthly Chloride Concentration

Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,250.7	4,314.5	3,765.9	3,038.4	1,582.1	1,184.6	1,254.0	1,619.2	2,008.3	2,762.1	3,502.7	3,858.6
20%	3,909.5	3,848.8	3,725.0	2,663.1	889.8	672.9	894.9	1,343.2	1,733.9	2,436.3	3,135.8	3,648.2
30%	3,810.5	3,765.9	3,464.4	2,225.6	562.1	301.0	701.2	1,225.3	1,554.4	2,263.5	3,022.9	3,516.2
40%	3,749.6	3,691.9	3,277.4	1,482.1	252.6	238.4	478.8	845.2	1,312.4	1,778.6	2,660.3	3,332.3
50%	3,631.4	3,584.4	2,841.3	991.3	136.5	110.1	318.6	677.3	1,184.6	1,615.7	2,369.1	3,151.6
60%	3,530.3	3,431.9	2,092.8	439.3	44.9	29.4	165.0	449.0	1,054.1	1,358.6	2,226.2	3,030.1
70%	3,459.6	3,363.6	1,104.9	62.1	20.6	19.4	57.9	305.4	850.2	1,267.7	2,170.8	2,985.5
80%	3,338.6	3,067.7	480.2	23.2	18.5	17.8	21.6	76.5	576.7	1,087.7	2,106.7	2,918.2
90%	2,991.4	1,664.6	106.4	17.3	16.6	17.0	17.2	18.1	132.3	915.0	1,972.8	2,820.6
Long Term												
Full Simulation Period[b]	3,528.9	3,257.1	2,292.5	1,249.8	502.1	341.2	481.9	780.9	1,213.0	1,747.8	2,572.0	3,187.6
Water Year Types[c]												
Wet (32%)	3,181.2	2,759.1	923.1	253.4	33.7	36.7	93.2	202.4	520.6	979.9	2,025.4	2,681.5
Above Normal (16%)	3,740.6	3,172.3	2,232.7	1,756.2	133.6	65.4	173.0	431.3	961.6	1,249.8	2,121.9	2,978.5
Below Normal (13%)	3,399.8	3,040.6	2,599.9	1,756.2	676.2	455.5	618.7	915.8	1,259.8	1,675.1	2,482.8	3,224.3
Dry (24%)	3,676.1	3,632.6	3,163.9	2,015.6	744.8	404.7	613.8	1,009.1	1,515.1	2,302.0	3,037.0	3,536.5
Critical (15%)	3,926.2	4,001.0	3,590.2	2,347.6	1,352.3	1,089.4	1,313.8	1,908.7	2,439.3	3,093.9	3,551.0	3,895.6

Alternative 3

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,241.2	4,380.5	3,774.2	2,674.8	1,113.8	871.9	1,160.2	1,661.6	1,999.3	2,747.5	3,459.4	3,894.2
20%	3,942.9	3,891.3	3,669.5	2,291.5	598.5	599.4	848.3	1,354.1	1,809.5	2,425.3	3,114.3	3,630.4
30%	3,867.4	3,777.0	3,468.7	1,964.3	323.1	232.3	578.0	1,208.5	1,665.0	2,269.3	2,932.5	3,524.6
40%	3,744.8	3,705.3	3,158.9	999.4	205.4	176.6	439.0	911.8	1,542.5	1,746.6	2,532.3	3,242.2
50%	3,609.3	3,626.2	2,821.5	692.6	92.5	85.8	296.3	742.2	1,316.8	1,593.4	2,270.5	3,085.0
60%	3,497.6	3,451.7	2,109.0	281.2	23.6	30.6	156.3	502.5	1,135.9	1,282.2	2,211.4	2,991.8
70%	3,448.6	3,357.6	814.4	43.8	20.2	19.0	69.2	307.7	916.2	1,182.9	2,097.0	2,920.9
80%	3,343.9	3,048.0	458.6	20.7	18.2	17.7	20.7	105.4	632.0	1,104.6	2,039.3	2,890.5
90%	3,058.9	1,584.8	105.3	17.1	16.7	16.9	17.0	18.4	169.3	924.6	1,892.4	2,822.4
Long Term												
Full Simulation Period[b]	3,547.9	3,288.1	2,246.6	1,070.7	384.1	280.8	450.5	792.7	1,294.1	1,727.0	2,522.0	3,163.0
Water Year Types[c]												
Wet (32%)	3,165.3	2,778.1	880.0	195.1	28.7	38.5	93.3	227.1	597.8	957.8	1,971.7	2,666.5
Above Normal (16%)	3,808.5	3,200.3	2,130.3	461.7	80.1	57.0	160.9	454.5	1,075.0	1,228.0	2,069.6	2,957.6
Below Normal (13%)	3,450.9	3,103.8	2,605.7	1,364.5	447.1	379.0	572.2	937.3	1,483.4	1,641.2	2,342.5	3,106.0
Dry (24%)	3,668.3	3,656.4	3,140.2	1,718.9	558.2	314.6	560.5	1,024.8	1,565.7	2,280.4	3,006.5	3,527.8
Critical (15%)	3,982.6	4,043.8	3,514.9	2,278.3	1,135.5	901.8	1,243.4	1,865.2	2,413.9	3,090.7	3,561.1	3,905.5

Alternative 3 minus Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-9.5	66.0	8.3	-363.6	-468.2	-312.7	-93.8	42.4	-8.9	-14.6	-43.3	35.7
20%	33.4	42.5	-55.6	-371.7	-291.3	-73.5	-46.7	10.9	75.6	-11.0	-21.5	-17.8
30%	56.9	11.1	4.4	-261.3	-239.0	-68.7	-123.3	-16.9	110.6	5.8	-90.4	8.4
40%	-4.8	13.4	-118.5	-482.7	-47.2	-61.8	-39.8	66.6	230.1	-32.0	-127.9	-90.1
50%	-22.1	41.8	-19.8	-298.7	-43.9	-24.3	-22.3	65.0	132.2	-22.3	-98.7	-66.6
60%	-32.7	19.9	16.1	-158.1	-21.3	1.2	-8.8	53.5	81.8	-76.4	-14.9	-38.3
70%	-11.0	-5.9	-290.5	-18.3	-0.4	-0.4	11.2	2.3	66.0	-84.8	-73.8	-64.6
80%	5.2	-19.7	-21.6	-2.4	-0.2	-0.1	-0.9	29.0	55.3	16.9	-67.4	-27.7
90%	67.5	-79.8	-1.0	-0.1	0.1	-0.2	-0.2	0.3	37.0	9.6	-80.4	1.8
Long Term												
Full Simulation Period[b]	18.9	31.0	-45.9	-179.1	-118.0	-60.5	-31.4	11.8	81.1	-20.7	-50.1	-24.6
Water Year Types[c]												
Wet (32%)	-15.9	19.0	-43.0	-58.3	-5.0	1.8	0.2	24.7	77.2	-22.2	-53.6	-15.1
Above Normal (16%)	67.9	27.9	-102.4	-160.9	-53.6	-8.4	-12.1	23.2	113.4	-21.8	-52.3	-20.8
Below Normal (13%)	51.1	63.2	5.8	-391.7	-229.0	-76.5	-46.5	21.5	223.6	-33.9	-140.3	-118.3
Dry (24%)	-7.8	23.8	-23.6	-296.8	-186.6	-90.1	-53.3	15.7	50.7	-21.5	-30.5	-8.6
Critical (15%)	56.4	42.8	-75.3	-69.2	-216.8	-187.6	-70.4	-43.5	-25.4	-3.2	10.1	9.9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.16.6. Sacramento River at Mallard Slough, Monthly Chloride Concentration

Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,250.7	4,314.5	3,765.9	3,038.4	1,582.1	1,184.6	1,254.0	1,619.2	2,008.3	2,762.1	3,502.7	3,858.6
20%	3,909.5	3,848.8	3,725.0	2,663.1	889.8	672.9	894.9	1,343.2	1,733.9	2,436.3	3,135.8	3,648.2
30%	3,810.5	3,765.9	3,464.4	2,225.6	562.1	301.0	701.2	1,225.3	1,554.4	2,263.5	3,022.9	3,516.2
40%	3,749.6	3,691.9	3,277.4	1,482.1	252.6	238.4	478.8	845.2	1,312.4	1,778.6	2,660.3	3,332.3
50%	3,631.4	3,584.4	2,841.3	991.3	136.5	110.1	318.6	677.3	1,184.6	1,615.7	2,369.1	3,151.6
60%	3,530.3	3,431.9	2,092.8	439.3	44.9	29.4	165.0	449.0	1,054.1	1,358.6	2,226.2	3,030.1
70%	3,459.6	3,363.6	1,104.9	62.1	20.6	19.4	57.9	305.4	850.2	1,267.7	2,170.8	2,985.5
80%	3,338.6	3,067.7	480.2	23.2	18.5	17.8	21.6	76.5	576.7	1,087.7	2,106.7	2,918.2
90%	2,991.4	1,664.6	106.4	17.3	16.6	17.0	17.2	18.1	132.3	915.0	1,972.8	2,820.6
Long Term												
Full Simulation Period[b]	3,528.9	3,257.1	2,292.5	1,249.8	502.1	341.2	481.9	780.9	1,213.0	1,747.8	2,572.0	3,187.6
Water Year Types[c]												
Wet (32%)	3,181.2	2,759.1	923.1	253.4	33.7	36.7	93.2	202.4	520.6	979.9	2,025.4	2,681.5
Above Normal (16%)	3,740.6	3,172.3	2,232.7	622.5	133.6	65.4	173.0	431.3	961.6	1,249.8	2,121.9	2,978.5
Below Normal (13%)	3,399.8	3,040.6	2,599.9	1,756.2	676.2	455.5	618.7	915.8	1,259.8	1,675.1	2,482.8	3,224.3
Dry (24%)	3,676.1	3,632.6	3,163.9	2,015.6	744.8	404.7	613.8	1,009.1	1,515.1	2,302.0	3,037.0	3,536.5
Critical (15%)	3,926.2	4,001.0	3,590.2	2,347.6	1,352.3	1,089.4	1,313.8	1,908.7	2,439.3	3,093.9	3,551.0	3,895.6

Alternative 5

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4,293.7	4,345.7	3,764.7	2,374.0	1,056.9	874.4	1,014.1	1,313.3	1,961.5	2,775.6	3,404.4	3,826.0
20%	3,966.6	3,872.0	3,135.0	2,018.5	597.5	606.8	659.9	1,137.6	1,699.1	2,376.0	3,096.7	3,606.0
30%	3,896.2	3,740.9	2,268.7	1,603.0	300.1	233.1	433.7	942.9	1,640.7	2,211.4	2,939.6	3,527.3
40%	3,783.0	3,184.6	1,940.6	890.2	163.3	168.9	243.9	579.5	1,435.9	1,793.9	2,534.8	3,286.5
50%	3,442.7	1,713.0	1,722.2	644.3	81.9	75.1	162.6	414.0	1,198.2	1,586.2	2,310.1	2,920.1
60%	1,745.8	1,607.6	1,515.1	283.0	26.9	29.7	75.3	265.3	1,092.5	1,257.2	2,206.0	1,645.4
70%	853.7	845.8	602.4	44.9	20.7	19.3	39.2	150.4	815.7	1,158.4	2,108.8	889.6
80%	822.4	768.2	198.5	20.6	18.3	17.6	20.3	44.2	479.2	1,056.3	1,987.2	811.7
90%	779.1	722.7	44.2	17.2	16.8	16.8	17.4	17.7	121.5	905.1	1,921.1	790.3
Long Term												
Full Simulation Period[b]	2,561.5	2,286.6	1,749.0	970.3	384.0	280.7	351.0	596.7	1,199.6	1,695.3	2,497.3	2,355.7
Water Year Types[c]												
Wet (32%)	1,888.0	1,483.3	567.3	169.1	27.3	33.3	51.7	118.7	525.6	917.9	1,966.9	801.3
Above Normal (16%)	3,093.7	2,312.9	1,531.9	401.2	87.3	58.3	90.5	258.4	1,006.5	1,203.4	2,036.7	1,638.7
Below Normal (13%)	1,922.9	1,839.4	1,849.4	1,173.8	436.3	381.4	421.2	685.0	1,391.6	1,634.0	2,343.2	3,151.1
Dry (24%)	2,780.3	2,695.5	2,486.2	1,546.8	563.2	315.7	422.6	795.8	1,478.1	2,284.1	2,974.6	3,493.1
Critical (15%)	3,664.9	3,727.3	3,223.7	2,175.6	1,131.4	906.8	1,097.6	1,586.2	2,229.1	2,987.1	3,491.1	3,875.3

Alternative 5 minus Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	43.0	31.2	-1.3	-664.4	-525.1	-310.2	-239.9	-305.9	-46.8	13.4	-98.4	-32.6
20%	57.1	23.2	-590.0	-644.7	-292.3	-66.1	-235.1	-205.6	-34.8	-60.3	-39.1	-42.2
30%	85.7	-25.0	-1,195.6	-622.7	-261.9	-67.9	-267.5	-282.5	86.3	-52.1	-83.3	11.1
40%	33.4	-507.2	-1,336.7	-591.9	-89.3	-69.5	-234.9	-265.6	123.5	15.3	-125.4	-45.9
50%	-188.7	-1,871.4	-1,119.1	-347.0	-54.6	-35.0	-156.0	-263.3	13.6	-29.5	-59.1	-231.5
60%	-1,784.5	-1,824.3	-577.7	-156.3	-18.0	0.3	-89.8	-183.7	38.4	-101.3	-20.3	-1,384.7
70%	-2,605.9	-2,517.7	-502.5	-17.2	0.1	-0.2	-18.7	-155.0	-34.5	-109.3	-62.0	-2,095.9
80%	-2,516.2	-2,299.5	-281.7	-2.5	-0.2	-0.2	-1.2	-32.3	-97.5	-31.5	-119.5	-2,106.6
90%	-2,212.3	-941.9	-62.1	-0.1	0.2	-0.2	0.2	-0.5	-10.8	-9.9	-51.7	-2,030.3
Long Term												
Full Simulation Period[b]	-967.4	-970.5	-543.5	-279.5	-118.1	-60.6	-131.0	-184.2	-13.4	-52.5	-74.7	-831.9
Water Year Types[c]												
Wet (32%)	-1,293.2	-1,275.7	-355.7	-84.3	-6.3	-3.4	-41.4	-83.7	5.0	-62.0	-58.5	-1,880.3
Above Normal (16%)	-646.9	-859.5	-700.8	-221.4	-46.3	-7.1	-82.5	-172.9	44.8	-46.4	-85.2	-1,339.8
Below Normal (13%)	-1,476.9	-1,201.2	-750.5	-582.4	-239.9	-74.1	-197.5	-230.8	131.8	-41.1	-139.7	-73.2
Dry (24%)	-895.8	-937.1	-677.6	-468.9	-181.6	-89.0	-191.2	-213.4	-37.0	-17.8	-62.3	-43.3
Critical (15%)	-261.3	-273.7	-366.5	-172.0	-220.9	-182.5	-216.2	-322.5	-210.2	-106.8	-59.9	-20.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.17. Jones Pumping Plant Chloride Concentration

Table 6E.B.17.1. Jones Pumping Plant, Monthly Chloride Concentration

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	159.1	179.5	188.5	178.4	182.6	174.1	125.8	110.0	87.9	76.0	114.1	136.6
20%	150.0	146.0	168.2	167.4	153.1	141.7	104.6	104.8	74.4	64.9	97.4	128.6
30%	143.7	131.4	153.7	150.5	146.1	125.6	85.6	91.9	66.5	60.0	88.3	117.6
40%	133.5	123.8	135.4	140.1	136.2	114.2	74.8	77.9	63.1	57.1	73.1	109.5
50%	123.3	105.3	101.6	132.1	122.2	101.1	55.7	63.2	61.3	52.8	67.2	102.5
60%	62.2	65.7	90.8	122.5	104.1	72.2	44.2	57.3	59.3	49.0	56.5	95.6
70%	58.4	54.7	79.4	112.8	87.9	54.3	38.9	53.2	55.7	48.0	50.7	90.0
80%	53.7	48.0	74.0	97.7	66.4	40.0	30.5	40.1	51.3	44.0	47.2	80.3
90%	51.3	45.1	70.5	78.8	42.8	32.0	22.7	18.7	45.6	38.7	43.2	74.2
Long Term												
Full Simulation Period[b]	102.8	101.1	118.1	129.3	116.6	98.1	66.8	68.5	63.0	56.6	72.8	102.8
Water Year Types[c]												
Wet (32%)	85.0	77.9	91.5	97.9	67.4	47.0	30.0	37.1	50.9	49.4	47.3	82.0
Above Normal (16%)	122.8	119.7	121.0	128.0	113.5	79.3	50.8	57.4	60.6	47.9	51.1	77.7
Below Normal (13%)	86.1	81.0	109.9	129.6	127.0	102.3	66.0	73.4	64.9	47.6	69.1	118.3
Dry (24%)	102.9	105.7	128.9	147.1	141.7	127.6	88.6	87.3	65.6	59.5	98.2	117.6
Critical (15%)	135.0	141.9	162.3	168.8	175.0	175.9	128.3	112.6	85.7	85.0	112.7	135.9

Alternative 1

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	165.1	180.0	186.8	184.3	166.4	139.4	99.7	80.1	78.3	71.6	103.6	139.1
20%	156.4	154.5	171.3	166.2	150.1	122.4	86.6	71.0	70.0	60.4	87.1	129.7
30%	151.9	143.3	162.8	158.8	131.6	105.1	68.8	64.7	62.4	55.2	80.5	121.2
40%	147.4	135.4	155.2	152.3	112.6	95.0	58.1	51.3	56.3	50.5	73.5	113.6
50%	143.2	130.9	150.3	144.5	104.5	85.4	51.9	48.1	53.3	48.2	64.1	112.0
60%	136.7	124.2	144.5	114.2	91.4	71.5	43.3	43.5	50.2	45.5	54.9	108.0
70%	131.6	117.3	128.5	95.3	76.0	56.8	38.1	40.1	47.6	44.0	51.3	104.5
80%	126.3	110.5	103.7	81.8	61.6	41.1	30.7	35.6	44.3	41.3	48.2	98.0
90%	105.6	85.7	72.7	73.2	42.4	34.0	23.0	18.6	35.0	35.8	42.9	83.6
Long Term												
Full Simulation Period[b]	137.5	129.7	140.6	128.6	104.7	86.7	57.4	50.8	56.1	53.4	69.2	110.5
Water Year Types[c]												
Wet (32%)	123.7	115.7	112.5	87.3	59.4	47.3	29.0	30.2	46.3	47.2	46.0	88.3
Above Normal (16%)	150.7	137.2	139.5	126.8	96.0	69.6	43.4	41.5	51.9	44.3	52.0	111.2
Below Normal (13%)	126.4	115.1	141.0	141.8	120.8	92.5	62.0	53.4	49.1	44.3	69.2	111.9
Dry (24%)	141.8	133.5	156.0	150.2	124.8	102.2	72.0	62.2	59.7	52.3	86.5	120.5
Critical (15%)	156.3	159.3	176.9	172.0	163.8	159.4	105.2	84.3	82.6	87.0	109.2	139.6

Alternative 1 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	6.0	0.4	-1.6	5.9	-16.2	-34.7	-26.1	-29.9	-9.7	-4.4	-10.5	2.5
20%	6.4	8.5	3.1	-1.2	-2.9	-19.3	-18.0	-33.8	-4.3	-4.5	-10.2	1.1
30%	8.2	11.8	9.0	8.3	-14.5	-20.5	-16.9	-27.2	-4.2	-4.8	-7.8	3.6
40%	13.9	11.5	19.8	12.2	-23.6	-19.2	-16.7	-26.7	-6.8	-6.5	0.4	4.2
50%	19.9	25.6	48.7	12.4	-17.7	-15.6	-3.8	-15.1	-7.9	-4.6	-3.1	9.5
60%	74.4	58.5	53.6	-8.3	-12.7	-0.6	-0.8	-13.8	-9.1	-3.5	-1.6	12.3
70%	73.2	62.6	49.1	-17.6	-12.0	2.5	-0.9	-13.1	-8.2	-4.0	0.7	14.5
80%	72.6	62.5	29.7	-16.0	-4.8	1.1	0.1	-4.5	-7.0	-2.7	1.0	17.6
90%	54.3	40.6	2.3	-5.6	-0.4	2.1	0.3	-0.2	-10.6	-2.9	-0.3	9.4
Long Term												
Full Simulation Period[b]	34.7	28.7	22.5	-0.7	-11.9	-11.3	-9.4	-17.7	-6.9	-3.2	-3.6	7.7
Water Year Types[c]												
Wet (32%)	38.7	37.8	20.9	-10.6	-8.1	0.3	-0.9	-6.9	-4.6	-2.2	-1.2	6.3
Above Normal (16%)	28.0	17.5	18.5	-1.1	-17.5	-9.7	-7.4	-15.9	-8.7	-3.6	0.9	33.4
Below Normal (13%)	40.3	34.1	31.1	12.2	-6.1	-9.7	-4.0	-20.0	-15.8	-3.3	0.1	-6.4
Dry (24%)	38.9	27.9	27.1	3.1	-16.9	-25.4	-16.6	-25.1	-5.9	-7.2	-11.7	2.9
Critical (15%)	21.3	17.4	14.6	3.2	-11.2	-16.4	-23.1	-28.3	-3.1	2.0	-3.5	3.7

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.17.2. Jones Pumping Plant, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	159.1	179.5	188.5	178.4	182.6	174.1	125.8	110.0	87.9	76.0	114.1	136.6
20%	150.0	146.0	168.2	167.4	153.1	141.7	104.6	104.8	74.4	64.9	97.4	128.6
30%	143.7	131.4	153.7	150.5	146.1	125.6	85.6	91.9	66.5	60.0	88.3	117.6
40%	133.5	123.8	135.4	140.1	136.2	114.2	74.8	77.9	63.1	57.1	73.1	109.5
50%	123.3	105.3	101.6	132.1	122.2	101.1	55.7	63.2	61.3	52.8	67.2	102.5
60%	62.2	65.7	90.8	122.5	104.1	72.2	44.2	57.3	59.3	49.0	56.5	95.6
70%	58.4	54.7	79.4	112.8	87.9	54.3	38.9	53.2	55.7	48.0	50.7	90.0
80%	53.7	48.0	74.0	97.7	66.4	40.0	30.5	40.1	51.3	44.0	47.2	80.3
90%	51.3	45.1	70.5	78.8	42.8	32.0	22.7	18.7	45.6	38.7	43.2	74.2
Long Term												
Full Simulation Period[b]	102.8	101.1	118.1	129.3	116.6	98.1	66.8	68.5	63.0	56.6	72.8	102.8
Water Year Types[c]												
Wet (32%)	85.0	77.9	91.5	97.9	67.4	47.0	30.0	37.1	50.9	49.4	47.3	82.0
Above Normal (16%)	122.8	119.7	121.0	128.0	113.5	79.3	50.8	57.4	60.6	47.9	51.1	77.7
Below Normal (13%)	86.1	81.0	109.9	129.6	127.0	102.3	66.0	73.4	64.9	47.6	69.1	118.3
Dry (24%)	102.9	105.7	128.9	147.1	141.7	127.6	88.6	87.3	65.6	59.5	98.2	117.6
Critical (15%)	135.0	141.9	162.3	168.8	175.0	175.9	128.3	112.6	85.7	85.0	112.7	135.9

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	164.9	178.7	187.1	180.1	181.1	171.3	126.0	114.2	70.5	77.3	115.9	139.9
20%	156.3	153.1	171.1	171.9	159.1	141.8	99.3	100.0	63.8	64.8	96.1	131.1
30%	152.5	141.4	161.3	163.0	144.8	124.5	85.6	85.6	58.7	59.3	83.7	124.3
40%	146.4	134.5	157.6	155.2	133.3	111.6	63.3	72.0	55.1	54.7	74.6	116.9
50%	139.3	129.9	151.5	150.0	119.2	92.7	54.5	55.0	51.3	51.6	66.1	112.3
60%	135.6	126.4	143.9	131.8	99.6	75.8	41.4	49.3	48.7	49.5	55.3	107.7
70%	130.3	121.5	129.9	120.0	80.7	56.0	37.8	44.0	45.2	46.8	49.9	103.6
80%	125.1	111.4	103.6	92.3	61.2	39.5	29.2	37.3	41.4	44.4	45.9	98.7
90%	105.5	90.3	79.1	75.0	36.9	32.3	22.6	18.8	34.7	37.5	40.9	78.5
Long Term												
Full Simulation Period[b]	137.2	131.8	141.8	134.6	113.9	96.1	64.7	65.3	53.4	56.6	71.1	110.8
Water Year Types[c]												
Wet (32%)	122.4	117.6	115.8	97.4	61.8	46.8	28.7	33.4	44.3	49.6	45.0	85.0
Above Normal (16%)	153.8	142.6	143.3	138.4	106.9	73.6	45.7	48.7	47.1	47.4	51.7	112.4
Below Normal (13%)	126.1	114.1	142.0	145.2	125.2	98.4	66.2	72.8	49.9	49.7	72.1	122.0
Dry (24%)	139.4	136.6	157.7	155.3	142.3	124.7	85.9	83.8	54.8	57.8	92.9	120.0
Critical (15%)	157.7	159.1	169.7	166.7	176.8	177.4	126.8	114.7	81.1	86.0	111.2	139.4

Alternative 3 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	5.8	-0.9	-1.3	1.8	-1.5	-2.8	0.1	4.2	-17.4	1.3	1.9	3.2
20%	6.4	7.1	2.9	4.5	6.0	0.1	-5.4	-4.8	-10.6	-0.1	-1.3	2.5
30%	8.8	10.0	7.5	12.5	-1.3	-1.0	0.0	-6.2	-7.8	-0.7	-4.5	6.7
40%	12.9	10.7	22.3	15.1	-2.9	-2.6	-11.6	-6.0	-8.0	-2.4	1.5	7.5
50%	16.0	24.6	49.9	17.9	-3.0	-8.4	-1.2	-8.2	-10.0	-1.2	-1.1	9.8
60%	73.4	60.7	53.1	9.3	-4.5	3.7	-2.8	-8.0	-10.6	0.5	-1.2	12.1
70%	72.0	66.9	50.5	7.2	-7.3	1.7	-1.1	-9.1	-10.6	-1.2	-0.7	13.6
80%	71.4	63.3	29.6	-5.4	-5.2	-0.5	-1.3	-2.8	-10.0	0.3	-1.3	18.4
90%	54.2	45.2	8.6	-3.8	-5.9	0.4	-0.1	0.1	-10.9	-1.2	-2.3	4.3
Long Term												
Full Simulation Period[b]	34.4	30.7	23.6	5.3	-2.7	-2.0	-2.1	-3.2	-9.6	0.0	-1.7	8.0
Water Year Types[c]												
Wet (32%)	37.4	39.7	24.2	-0.5	-5.7	-0.2	-1.3	-3.8	-6.6	0.2	-2.3	3.0
Above Normal (16%)	31.1	22.9	22.2	10.4	-6.6	-5.7	-5.1	-8.7	-13.5	-0.4	0.5	34.7
Below Normal (13%)	40.0	33.2	32.1	15.7	-1.8	-3.9	0.3	-0.6	-15.1	2.1	3.0	3.7
Dry (24%)	36.5	30.9	28.9	8.2	0.6	-2.9	-2.7	-3.5	-10.8	-1.7	-5.2	2.4
Critical (15%)	22.7	17.2	7.4	-2.1	1.9	1.5	-1.4	2.1	-4.6	1.0	-1.5	3.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.17.3. Jones Pumping Plant, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	159.1	179.5	188.5	178.4	182.6	174.1	125.8	110.0	87.9	76.0	114.1	136.6
20%	150.0	146.0	168.2	167.4	153.1	141.7	104.6	104.8	74.4	64.9	97.4	128.6
30%	143.7	131.4	153.7	150.5	146.1	125.6	85.6	91.9	66.5	60.0	88.3	117.6
40%	133.5	123.8	135.4	140.1	136.2	114.2	74.8	77.9	63.1	57.1	73.1	109.5
50%	123.3	105.3	101.6	132.1	122.2	101.1	55.7	63.2	61.3	52.8	67.2	102.5
60%	62.2	65.7	90.8	122.5	104.1	72.2	44.2	57.3	59.3	49.0	56.5	95.6
70%	58.4	54.7	79.4	112.8	87.9	54.3	38.9	53.2	55.7	48.0	50.7	90.0
80%	53.7	48.0	74.0	97.7	66.4	40.0	30.5	40.1	51.3	44.0	47.2	80.3
90%	51.3	45.1	70.5	78.8	42.8	32.0	22.7	18.7	45.6	38.7	43.2	74.2
Long Term												
Full Simulation Period[b]	102.8	101.1	118.1	129.3	116.6	98.1	66.8	68.5	63.0	56.6	72.8	102.8
Water Year Types[c]												
Wet (32%)	85.0	77.9	91.5	97.9	67.4	47.0	30.0	37.1	50.9	49.4	47.3	82.0
Above Normal (16%)	122.8	119.7	121.0	128.0	113.5	79.3	50.8	57.4	60.6	47.9	51.1	77.7
Below Normal (13%)	86.1	81.0	109.9	129.6	127.0	102.3	66.0	73.4	64.9	47.6	69.1	118.3
Dry (24%)	102.9	105.7	128.9	147.1	141.7	127.6	88.6	87.3	65.6	59.5	98.2	117.6
Critical (15%)	135.0	141.9	162.3	168.8	175.0	175.9	128.3	112.6	85.7	85.0	112.7	135.9

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	166.9	178.1	187.1	178.5	182.6	174.1	124.7	105.9	101.3	79.2	117.0	136.0
20%	151.7	152.4	166.1	167.5	154.8	141.7	105.5	102.2	81.0	66.2	102.3	129.6
30%	141.3	132.7	155.9	150.1	146.3	125.5	81.7	87.2	73.7	61.4	91.8	121.9
40%	135.6	124.7	137.1	139.8	136.2	114.2	71.2	73.0	68.7	58.6	73.9	113.5
50%	122.5	107.7	101.9	131.8	122.2	101.1	57.6	62.0	64.0	54.2	66.5	103.3
60%	63.2	66.2	90.9	122.6	104.2	72.2	44.2	54.3	61.6	50.9	56.8	96.7
70%	59.0	53.0	80.2	113.7	87.9	55.1	39.0	51.9	57.7	48.5	51.1	88.5
80%	53.9	48.2	72.3	97.8	66.4	40.4	30.3	40.1	52.3	44.4	47.8	80.5
90%	51.9	45.2	70.4	78.8	42.8	32.0	23.0	18.8	48.3	39.0	43.2	73.5
Long Term												
Full Simulation Period[b]	104.0	101.4	118.1	129.6	116.7	98.3	65.9	66.7	67.3	57.3	74.0	104.1
Water Year Types[c]												
Wet (32%)	85.6	79.0	92.2	97.8	67.5	47.5	30.0	35.6	51.0	49.8	47.5	82.1
Above Normal (16%)	125.9	118.9	119.7	127.6	113.5	79.3	49.9	54.2	61.2	48.0	51.3	77.7
Below Normal (13%)	86.0	81.5	109.9	129.5	126.8	102.2	65.7	73.7	68.5	48.4	69.3	119.8
Dry (24%)	104.2	105.5	128.5	148.6	142.4	127.7	87.2	88.5	74.6	62.3	102.4	121.0
Critical (15%)	136.1	142.2	162.4	169.2	174.9	176.2	125.8	105.1	96.4	83.5	113.2	137.8

Alternative 5 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	7.8	-1.5	-1.3	0.2	0.0	0.0	-1.1	-4.1	13.4	3.1	2.9	-0.6
20%	1.7	6.4	-2.1	0.1	1.7	0.0	0.8	-2.7	6.6	1.3	4.9	1.0
30%	-2.4	1.3	2.2	-0.4	0.2	-0.1	-3.9	-4.6	7.1	1.3	3.5	4.3
40%	2.2	0.9	1.7	-0.3	0.0	0.0	-3.6	-5.0	5.7	1.5	0.8	4.1
50%	-0.8	2.4	0.3	-0.3	0.0	0.0	1.9	-1.3	2.7	1.4	-0.6	0.8
60%	0.9	0.5	0.1	0.1	0.1	0.0	0.0	-2.9	2.2	1.9	0.3	1.0
70%	0.7	-1.7	0.7	0.8	0.0	0.8	0.0	-1.3	2.0	0.4	0.4	-1.4
80%	0.1	0.2	-1.7	0.1	0.0	0.4	-0.2	0.0	1.0	0.4	0.6	0.2
90%	0.6	0.1	0.0	0.0	0.0	0.0	0.3	0.0	2.7	0.3	-0.1	-0.6
Long Term												
Full Simulation Period[b]	1.1	0.3	-0.1	0.4	0.1	0.2	-0.9	-1.8	4.3	0.7	1.2	1.3
Water Year Types[c]												
Wet (32%)	0.6	1.1	0.6	-0.1	0.0	0.5	0.0	-1.5	0.1	0.3	0.3	0.1
Above Normal (16%)	3.1	-0.8	-1.3	-0.3	0.0	0.0	-0.9	-3.2	0.5	0.1	0.1	-0.1
Below Normal (13%)	-0.1	0.5	0.0	-0.1	-0.2	-0.1	-0.2	0.3	3.5	0.8	0.2	1.5
Dry (24%)	1.3	-0.2	-0.4	1.6	0.7	0.1	-1.4	1.2	8.9	2.8	4.2	3.4
Critical (15%)	1.1	0.3	0.1	0.4	-0.1	0.4	-2.5	-7.6	10.7	-1.5	0.6	1.9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.17.4. Jones Pumping Plant, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	165.1	180.0	186.8	184.3	166.4	139.4	99.7	80.1	78.3	71.6	103.6	139.1
20%	156.4	154.5	171.3	166.2	150.1	122.4	86.6	71.0	70.0	60.4	87.1	129.7
30%	151.9	143.3	162.8	158.8	131.6	105.1	68.8	64.7	62.4	55.2	80.5	121.2
40%	147.4	135.4	155.2	152.3	112.6	95.0	58.1	51.3	56.3	50.5	73.5	113.6
50%	143.2	130.9	150.3	144.5	104.5	85.4	51.9	48.1	53.3	48.2	64.1	112.0
60%	136.7	124.2	144.5	114.2	91.4	71.5	43.3	43.5	50.2	45.5	54.9	108.0
70%	131.6	117.3	128.5	95.3	76.0	56.8	38.1	40.1	47.6	44.0	51.3	104.5
80%	126.3	110.5	103.7	81.8	61.6	41.1	30.7	35.6	44.3	41.3	48.2	98.0
90%	105.6	85.7	72.7	73.2	42.4	34.0	23.0	18.6	35.0	35.8	42.9	83.6
Long Term												
Full Simulation Period[b]	137.5	129.7	140.6	128.6	104.7	86.7	57.4	50.8	56.1	53.4	69.2	110.5
Water Year Types[c]												
Wet (32%)	123.7	115.7	112.5	87.3	59.4	47.3	29.0	30.2	46.3	47.2	46.0	88.3
Above Normal (16%)	150.7	137.2	139.5	126.8	96.0	69.6	43.4	41.5	51.9	44.3	52.0	111.2
Below Normal (13%)	126.4	115.1	141.0	141.8	120.8	92.5	62.0	53.4	49.1	44.3	69.2	111.9
Dry (24%)	141.8	133.5	156.0	150.2	124.8	102.2	72.0	62.2	59.7	52.3	86.5	120.5
Critical (15%)	156.3	159.3	176.9	172.0	163.8	159.4	105.2	84.3	82.6	87.0	109.2	139.6

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	159.1	179.5	188.5	178.4	182.6	174.1	125.8	110.0	87.9	76.0	114.1	136.6
20%	150.0	146.0	168.2	167.4	153.1	141.7	104.6	104.8	74.4	64.9	97.4	128.6
30%	143.7	131.4	153.7	150.5	146.1	125.6	85.6	91.9	66.5	60.0	88.3	117.6
40%	133.5	123.8	135.4	140.1	136.2	114.2	74.8	77.9	63.1	57.1	73.1	109.5
50%	123.3	105.3	101.6	132.1	122.2	101.1	55.7	63.2	61.3	52.8	67.2	102.5
60%	62.2	65.7	90.8	122.5	104.1	72.2	44.2	57.3	59.3	49.0	56.5	95.6
70%	58.4	54.7	79.4	112.8	87.9	54.3	38.9	53.2	55.7	48.0	50.7	90.0
80%	53.7	48.0	74.0	97.7	66.4	40.0	30.5	40.1	51.3	44.0	47.2	80.3
90%	51.3	45.1	70.5	78.8	42.8	32.0	22.7	18.7	45.6	38.7	43.2	74.2
Long Term												
Full Simulation Period[b]	102.8	101.1	118.1	129.3	116.6	98.1	66.8	68.5	63.0	56.6	72.8	102.8
Water Year Types[c]												
Wet (32%)	85.0	77.9	91.5	97.9	67.4	47.0	30.0	37.1	50.9	49.4	47.3	82.0
Above Normal (16%)	122.8	119.7	121.0	128.0	113.5	79.3	50.8	57.4	60.6	47.9	51.1	77.7
Below Normal (13%)	86.1	81.0	109.9	129.6	127.0	102.3	66.0	73.4	64.9	47.6	69.1	118.3
Dry (24%)	102.9	105.7	128.9	147.1	141.7	127.6	88.6	87.3	65.6	59.5	98.2	117.6
Critical (15%)	135.0	141.9	162.3	168.8	175.0	175.9	128.3	112.6	85.7	85.0	112.7	135.9

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-6.0	-0.4	1.6	-5.9	16.2	34.7	26.1	29.9	9.7	4.4	10.5	-2.5
20%	-6.4	-8.5	-3.1	1.2	2.9	19.3	18.0	33.8	4.3	4.5	10.2	-1.1
30%	-8.2	-11.8	-9.0	-8.3	14.5	20.5	16.9	27.2	4.2	4.8	7.8	-3.6
40%	-13.9	-11.5	-19.8	-12.2	23.6	19.2	16.7	26.7	6.8	6.5	-0.4	-4.2
50%	-19.9	-25.6	-48.7	-12.4	17.7	15.6	3.8	15.1	7.9	4.6	3.1	-9.5
60%	-74.4	-58.5	-53.6	8.3	12.7	0.6	0.8	13.8	9.1	3.5	1.6	-12.3
70%	-73.2	-62.6	-49.1	17.6	12.0	-2.5	0.9	13.1	8.2	4.0	-0.7	-14.5
80%	-72.6	-62.5	-29.7	16.0	4.8	-1.1	-0.1	4.5	7.0	2.7	-1.0	-17.6
90%	-54.3	-40.6	-2.3	5.6	0.4	-2.1	-0.3	0.2	10.6	2.9	0.3	-9.4
Long Term												
Full Simulation Period[b]	-34.7	-28.7	-22.5	0.7	11.9	11.3	9.4	17.7	6.9	3.2	3.6	-7.7
Water Year Types[c]												
Wet (32%)	-38.7	-37.8	-20.9	10.6	8.1	-0.3	0.9	6.9	4.6	2.2	1.2	-6.3
Above Normal (16%)	-28.0	-17.5	-18.5	1.1	17.5	9.7	7.4	15.9	8.7	3.6	-0.9	-33.4
Below Normal (13%)	-40.3	-34.1	-31.1	-12.2	6.1	9.7	4.0	20.0	15.8	3.3	-0.1	6.4
Dry (24%)	-38.9	-27.9	-27.1	-3.1	16.9	25.4	16.6	25.1	5.9	7.2	11.7	-2.9
Critical (15%)	-21.3	-17.4	-14.6	-3.2	11.2	16.4	23.1	28.3	3.1	-2.0	3.5	-3.7

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.17.5. Jones Pumping Plant, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	165.1	180.0	186.8	184.3	166.4	139.4	99.7	80.1	78.3	71.6	103.6	139.1
20%	156.4	154.5	171.3	166.2	150.1	122.4	86.6	71.0	70.0	60.4	87.1	129.7
30%	151.9	143.3	162.8	158.8	131.6	105.1	68.8	64.7	62.4	55.2	80.5	121.2
40%	147.4	135.4	155.2	152.3	112.6	95.0	58.1	51.3	56.3	50.5	73.5	113.6
50%	143.2	130.9	150.3	144.5	104.5	85.4	51.9	48.1	53.3	48.2	64.1	112.0
60%	136.7	124.2	144.5	114.2	91.4	71.5	43.3	43.5	50.2	45.5	54.9	108.0
70%	131.6	117.3	128.5	95.3	76.0	56.8	38.1	40.1	47.6	44.0	51.3	104.5
80%	126.3	110.5	103.7	81.8	61.6	41.1	30.7	35.6	44.3	41.3	48.2	98.0
90%	105.6	85.7	72.7	73.2	42.4	34.0	23.0	18.6	35.0	35.8	42.9	83.6
Long Term												
Full Simulation Period[b]	137.5	129.7	140.6	128.6	104.7	86.7	57.4	50.8	56.1	53.4	69.2	110.5
Water Year Types[c]												
Wet (32%)	123.7	115.7	112.5	87.3	59.4	47.3	29.0	30.2	46.3	47.2	46.0	88.3
Above Normal (16%)	150.7	137.2	139.5	126.8	96.0	69.6	43.4	41.5	51.9	44.3	52.0	111.2
Below Normal (13%)	126.4	115.1	141.0	141.8	120.8	92.5	62.0	53.4	49.1	44.3	69.2	111.9
Dry (24%)	141.8	133.5	156.0	150.2	124.8	102.2	72.0	62.2	59.7	52.3	86.5	120.5
Critical (15%)	156.3	159.3	176.9	172.0	163.8	159.4	105.2	84.3	82.6	87.0	109.2	139.6

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	164.9	178.7	187.1	180.1	181.1	171.3	126.0	114.2	70.5	77.3	115.9	139.9
20%	156.3	153.1	171.1	171.9	159.1	141.8	99.3	100.0	63.8	64.8	96.1	131.1
30%	152.5	141.4	161.3	163.0	144.8	124.5	85.6	85.6	58.7	59.3	83.7	124.3
40%	146.4	134.5	157.6	155.2	133.3	111.6	63.3	72.0	55.1	54.7	74.6	116.9
50%	139.3	129.9	151.5	150.0	119.2	92.7	54.5	55.0	51.3	51.6	66.1	112.3
60%	135.6	126.4	143.9	131.8	99.6	75.8	41.4	49.3	48.7	49.5	55.3	107.7
70%	130.3	121.5	129.9	120.0	80.7	56.0	37.8	44.0	45.2	46.8	49.9	103.6
80%	125.1	111.4	103.6	92.3	61.2	39.5	29.2	37.3	41.4	44.4	45.9	98.7
90%	105.5	90.3	79.1	75.0	36.9	32.3	22.6	18.8	34.7	37.5	40.9	78.5
Long Term												
Full Simulation Period[b]	137.2	131.8	141.8	134.6	113.9	96.1	64.7	65.3	53.4	56.6	71.1	110.8
Water Year Types[c]												
Wet (32%)	122.4	117.6	115.8	97.4	61.8	46.8	28.7	33.4	44.3	49.6	45.0	85.0
Above Normal (16%)	153.8	142.6	143.3	138.4	106.9	73.6	45.7	48.7	47.1	47.4	51.7	112.4
Below Normal (13%)	126.1	114.1	142.0	145.2	125.2	98.4	66.2	72.8	49.9	49.7	72.1	122.0
Dry (24%)	139.4	136.6	157.7	155.3	142.3	124.7	85.9	83.8	54.8	57.8	92.9	120.0
Critical (15%)	157.7	159.1	169.7	166.7	176.8	177.4	126.8	114.7	81.1	86.0	111.2	139.4

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-0.2	-1.3	0.3	-4.1	14.7	31.9	26.3	34.1	-7.8	5.6	12.3	0.7
20%	0.0	-1.5	-0.2	5.7	9.0	19.4	12.6	29.0	-6.2	4.4	8.9	1.4
30%	0.7	-1.8	-1.5	4.2	13.2	19.5	16.9	21.0	-3.6	4.1	3.3	3.1
40%	-0.9	-0.9	2.5	2.9	20.8	16.6	5.2	20.7	-1.2	4.1	1.1	3.3
50%	-3.8	-1.0	1.2	5.5	14.7	7.2	2.6	7.0	-2.1	3.4	2.0	0.3
60%	-1.1	2.3	-0.6	17.7	8.2	4.3	-2.0	5.8	-1.5	4.0	0.4	-0.2
70%	-1.3	4.3	1.4	24.7	4.7	-0.8	-0.3	4.0	-2.4	2.8	-1.4	-0.9
80%	-1.2	0.9	-0.1	10.5	-0.4	-1.6	-1.5	1.7	-3.0	3.1	-2.3	0.7
90%	-0.1	4.6	6.4	1.8	-5.5	-1.7	-0.4	0.2	-0.3	1.7	-2.0	-5.1
Long Term												
Full Simulation Period[b]	-0.3	2.1	1.2	6.0	9.2	9.4	7.4	14.5	-2.7	3.2	1.9	0.4
Water Year Types[c]												
Wet (32%)	-1.3	1.9	3.3	10.1	2.4	-0.5	-0.4	3.2	-2.0	2.4	-1.1	-3.2
Above Normal (16%)	3.1	5.4	3.8	11.6	10.8	4.0	2.3	7.2	-4.8	3.1	-0.4	1.2
Below Normal (13%)	-0.2	-0.9	1.0	3.5	4.3	5.9	4.3	19.4	0.8	5.4	2.9	10.1
Dry (24%)	-2.3	3.1	1.8	5.1	17.5	22.5	13.9	21.6	-4.9	5.5	6.4	-0.5
Critical (15%)	1.4	-0.1	-7.2	-5.3	13.1	17.9	21.6	30.4	-1.5	-1.0	2.0	-0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.17.6. Jones Pumping Plant, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	165.1	180.0	186.8	184.3	166.4	139.4	99.7	80.1	78.3	71.6	103.6	139.1
20%	156.4	154.5	171.3	166.2	150.1	122.4	86.6	71.0	70.0	60.4	87.1	129.7
30%	151.9	143.3	162.8	158.8	131.6	105.1	68.8	64.7	62.4	55.2	80.5	121.2
40%	147.4	135.4	155.2	152.3	112.6	95.0	58.1	51.3	56.3	50.5	73.5	113.6
50%	143.2	130.9	150.3	144.5	104.5	85.4	51.9	48.1	53.3	48.2	64.1	112.0
60%	136.7	124.2	144.5	114.2	91.4	71.5	43.3	43.5	50.2	45.5	54.9	108.0
70%	131.6	117.3	128.5	95.3	76.0	56.8	38.1	40.1	47.6	44.0	51.3	104.5
80%	126.3	110.5	103.7	81.8	61.6	41.1	30.7	35.6	44.3	41.3	48.2	98.0
90%	105.6	85.7	72.7	73.2	42.4	34.0	23.0	18.6	35.0	35.8	42.9	83.6
Long Term												
Full Simulation Period[b]	137.5	129.7	140.6	128.6	104.7	86.7	57.4	50.8	56.1	53.4	69.2	110.5
Water Year Types[c]												
Wet (32%)	123.7	115.7	112.5	87.3	59.4	47.3	29.0	30.2	46.3	47.2	46.0	88.3
Above Normal (16%)	150.7	137.2	139.5	126.8	96.0	69.6	43.4	41.5	51.9	44.3	52.0	111.2
Below Normal (13%)	126.4	115.1	141.0	141.8	120.8	92.5	62.0	53.4	49.1	44.3	69.2	111.9
Dry (24%)	141.8	133.5	156.0	150.2	124.8	102.2	72.0	62.2	59.7	52.3	86.5	120.5
Critical (15%)	156.3	159.3	176.9	172.0	163.8	159.4	105.2	84.3	82.6	87.0	109.2	139.6

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	166.9	178.1	187.1	178.5	182.6	174.1	124.7	105.9	101.3	79.2	117.0	136.0
20%	151.7	152.4	166.1	167.5	154.8	141.7	105.5	102.2	81.0	66.2	102.3	129.6
30%	141.3	132.7	155.9	150.1	146.3	125.5	81.7	87.2	73.7	61.4	91.8	121.9
40%	135.6	124.7	137.1	139.8	136.2	114.2	71.2	73.0	68.7	58.6	73.9	113.5
50%	122.5	107.7	101.9	131.8	122.2	101.1	57.6	62.0	64.0	54.2	66.5	103.3
60%	63.2	66.2	90.9	122.6	104.2	72.2	44.2	54.3	61.6	50.9	56.8	96.7
70%	59.0	53.0	80.2	113.7	87.9	55.1	39.0	51.9	57.7	48.5	51.1	88.5
80%	53.9	48.2	72.3	97.8	66.4	40.4	30.3	40.1	52.3	44.4	47.8	80.5
90%	51.9	45.2	70.4	78.8	42.8	32.0	23.0	18.8	48.3	39.0	43.2	73.5
Long Term												
Full Simulation Period[b]	104.0	101.4	118.1	129.6	116.7	98.3	65.9	66.7	67.3	57.3	74.0	104.1
Water Year Types[c]												
Wet (32%)	85.6	79.0	92.2	97.8	67.5	47.5	30.0	35.6	51.0	49.8	47.5	82.1
Above Normal (16%)	125.9	118.9	119.7	127.6	113.5	79.3	49.9	54.2	61.2	48.0	51.3	77.7
Below Normal (13%)	86.0	81.5	109.9	129.5	126.8	102.2	65.7	73.7	68.5	48.4	69.3	119.8
Dry (24%)	104.2	105.5	128.5	148.6	142.4	127.7	87.2	88.5	74.6	62.3	102.4	121.0
Critical (15%)	136.1	142.2	162.4	169.2	174.9	176.2	125.8	105.1	96.4	83.5	113.2	137.8

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1.8	-1.9	0.3	-5.7	16.2	34.7	25.0	25.8	23.0	7.5	13.4	-3.1
20%	-4.7	-2.2	-5.2	1.3	4.6	19.2	18.9	31.2	10.9	5.8	15.2	0.0
30%	-10.6	-10.5	-6.9	-8.7	14.7	20.4	13.0	22.5	11.3	6.2	11.3	0.7
40%	-11.7	-10.7	-18.1	-12.5	23.6	19.2	13.1	21.7	12.4	8.1	0.4	-0.1
50%	-20.7	-23.2	-48.4	-12.7	17.7	15.6	5.7	13.9	10.7	6.0	2.5	-8.7
60%	-73.5	-58.0	-53.5	8.4	12.8	0.6	0.8	10.8	11.3	5.4	1.9	-11.3
70%	-72.6	-64.3	-48.4	18.4	12.0	-1.7	0.9	11.8	10.2	4.5	-0.3	-15.9
80%	-72.5	-62.3	-31.4	16.1	4.8	-0.7	-0.3	4.5	8.0	3.1	-0.4	-17.4
90%	-53.7	-40.5	-2.3	5.6	0.4	-2.1	0.0	0.2	13.3	3.3	0.3	-10.0
Long Term												
Full Simulation Period[b]	-33.6	-28.4	-22.5	1.0	12.1	11.5	8.6	15.9	11.2	3.9	4.8	-6.4
Water Year Types[c]												
Wet (32%)	-38.1	-36.7	-20.3	10.5	8.1	0.1	1.0	5.4	4.7	2.6	1.5	-6.2
Above Normal (16%)	-24.9	-18.3	-19.7	0.8	17.5	9.7	6.5	12.7	9.3	3.7	-0.8	-33.5
Below Normal (13%)	-40.4	-33.6	-31.1	-12.2	6.0	9.7	3.7	20.3	19.3	4.2	0.1	7.9
Dry (24%)	-37.6	-28.1	-27.4	-1.6	17.6	25.4	15.2	26.3	14.8	10.0	15.9	0.5
Critical (15%)	-20.2	-17.0	-14.4	-2.8	11.1	16.8	20.6	20.8	13.8	-3.5	4.0	-1.8

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.18. Banks Pumping Plant Chloride Concentration

Table 6E.B.18.1. Banks Pumping Plant, Monthly Chloride Concentration

No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	169.9	187.4	203.2	187.8	141.3	125.2	108.4	96.5	87.0	73.0	111.3	135.5
20%	156.4	148.1	167.6	168.1	121.7	103.2	92.8	88.8	71.2	53.7	88.3	124.6
30%	145.0	135.0	145.3	135.0	108.7	90.5	78.5	81.7	61.9	45.5	71.0	114.5
40%	140.5	129.1	124.0	113.6	102.7	81.8	69.6	72.9	56.3	41.8	60.3	102.6
50%	122.5	110.0	75.2	103.1	94.3	69.9	62.2	57.1	52.8	38.7	55.8	99.0
60%	57.4	48.8	56.6	94.6	88.1	64.0	47.5	49.6	49.5	35.7	44.6	94.6
70%	52.7	42.0	45.3	79.4	73.9	55.2	38.8	44.1	46.3	33.1	39.6	86.3
80%	47.0	38.6	37.5	71.6	56.1	46.0	32.9	38.0	41.8	30.5	35.2	76.8
90%	40.4	34.5	34.1	64.8	49.1	35.2	24.8	17.7	30.6	28.2	31.5	70.3
Long Term												
Full Simulation Period[b]	102.4	98.7	101.8	114.0	95.0	76.5	64.7	61.8	57.1	45.4	62.4	99.7
Water Year Types[c]												
Wet (32%)	84.0	72.1	67.4	76.6	62.4	44.8	31.3	32.2	39.4	33.5	37.2	82.6
Above Normal (16%)	124.1	120.7	108.7	109.1	92.8	66.4	52.2	51.7	50.3	31.5	38.4	73.7
Below Normal (13%)	86.1	74.8	88.3	111.8	100.5	82.2	68.8	68.9	62.0	38.4	57.7	116.0
Dry (24%)	100.7	103.4	113.1	136.5	108.7	91.2	82.3	76.5	60.4	49.6	89.5	113.8
Critical (15%)	136.3	146.4	162.4	164.8	140.1	126.2	117.4	106.1	92.6	85.5	102.5	126.5

Alternative 1

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	166.0	185.8	193.1	193.8	142.0	105.3	80.7	69.3	71.3	67.6	99.2	131.1
20%	159.4	159.2	176.8	179.0	123.6	83.0	68.8	63.8	63.0	48.1	73.6	125.4
30%	157.2	149.8	167.2	158.0	100.3	72.4	56.4	58.1	47.0	42.9	66.5	116.8
40%	150.0	140.9	156.1	148.6	83.3	65.2	50.9	45.0	42.4	40.1	61.4	110.6
50%	146.0	136.6	148.1	140.5	77.9	60.0	45.8	41.2	39.2	37.6	52.1	106.4
60%	142.6	130.8	140.7	84.4	67.2	53.2	41.7	36.8	36.6	33.9	42.4	103.6
70%	135.7	123.4	124.7	69.5	56.9	45.8	37.3	35.3	34.6	30.9	38.5	100.6
80%	129.3	113.8	93.0	62.1	50.5	40.1	31.6	31.2	31.8	28.6	35.4	89.1
90%	112.7	85.2	45.2	50.0	39.9	34.7	22.4	19.9	29.5	27.1	31.9	82.3
Long Term												
Full Simulation Period[b]	140.5	134.4	137.7	122.0	85.7	64.3	51.6	47.2	45.8	42.9	57.9	106.4
Water Year Types[c]												
Wet (32%)	127.3	120.0	106.7	70.3	50.1	41.9	29.3	27.2	34.4	33.3	35.8	86.9
Above Normal (16%)	151.8	140.2	135.0	118.9	75.9	55.4	41.3	36.8	35.9	30.1	38.9	108.0
Below Normal (13%)	130.8	119.2	135.1	136.5	109.9	76.2	57.9	48.8	37.0	33.7	58.6	107.7
Dry (24%)	144.9	139.3	155.6	149.5	97.9	68.1	57.4	55.9	50.8	45.1	74.3	116.0
Critical (15%)	158.4	165.1	180.6	178.5	131.0	105.5	95.8	86.0	81.2	82.5	98.4	129.7

Alternative 1 minus No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	**-3.9**	**-1.6**	**-10.1**	6.1	0.8	**-19.9**	**-27.7**	**-27.1**	**-15.6**	**-5.5**	**-12.2**	**-4.4**
20%	3.0	11.1	9.3	10.9	1.8	**-20.2**	**-24.0**	**-24.9**	**-8.1**	**-5.6**	**-14.7**	0.9
30%	12.1	14.8	22.0	23.1	**-8.3**	**-18.1**	**-22.0**	**-23.6**	**-14.9**	**-2.6**	**-4.5**	2.3
40%	9.5	11.8	32.1	35.1	**-19.3**	**-16.6**	**-18.7**	**-27.9**	**-13.9**	**-1.7**	1.0	8.0
50%	23.5	26.5	72.9	37.3	**-16.4**	**-10.0**	**-16.4**	**-15.8**	**-13.6**	**-1.1**	**-3.8**	7.4
60%	85.2	82.0	84.1	**-10.2**	**-20.8**	**-10.8**	**-5.8**	**-12.9**	**-12.9**	**-1.8**	**-2.3**	9.0
70%	83.1	81.4	79.4	**-10.0**	**-17.0**	**-9.4**	**-1.5**	**-8.8**	**-11.8**	**-2.2**	**-1.1**	14.3
80%	82.3	75.1	55.4	**-9.5**	**-5.6**	**-6.0**	**-1.2**	**-6.8**	**-10.0**	**-1.9**	0.2	12.3
90%	72.3	50.8	11.2	**-14.8**	**-9.2**	**-0.5**	**-2.4**	2.2	**-1.1**	**-1.0**	0.4	12.0
Long Term												
Full Simulation Period[b]	38.1	35.7	35.9	8.0	**-9.3**	**-12.2**	**-13.0**	**-14.6**	**-11.2**	**-2.5**	**-4.5**	6.7
Water Year Types[c]												
Wet (32%)	43.3	47.9	39.2	**-6.3**	**-12.3**	**-3.0**	**-2.0**	**-4.9**	**-5.0**	**-0.2**	**-1.4**	4.4
Above Normal (16%)	27.7	19.5	26.3	9.8	**-16.9**	**-11.0**	**-10.9**	**-14.9**	**-14.4**	**-1.4**	0.5	34.3
Below Normal (13%)	44.7	44.4	46.8	24.6	9.4	**-6.0**	**-10.9**	**-20.1**	**-25.0**	**-4.7**	0.9	**-8.3**
Dry (24%)	44.2	35.9	42.6	13.0	**-10.8**	**-23.1**	**-24.9**	**-20.7**	**-9.6**	**-4.5**	**-15.2**	2.2
Critical (15%)	22.1	18.7	18.1	13.7	**-9.2**	**-20.7**	**-21.6**	**-20.1**	**-11.5**	**-3.0**	**-4.1**	3.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.18.2. Banks Pumping Plant, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	169.9	187.4	203.2	187.8	141.3	125.2	108.4	96.5	87.0	73.0	111.3	135.5
20%	156.4	148.1	167.6	168.1	121.7	103.2	92.8	88.8	71.2	53.7	88.3	124.6
30%	145.0	135.0	145.3	135.0	108.7	90.5	78.5	81.7	61.9	45.5	71.0	114.5
40%	140.5	129.1	124.0	113.6	102.7	81.8	69.6	72.9	56.3	41.8	60.3	102.6
50%	122.5	110.0	75.2	103.1	94.3	69.9	62.2	57.1	52.8	38.7	55.8	99.0
60%	57.4	48.8	56.6	94.6	88.1	64.0	47.5	49.6	49.5	35.7	44.6	94.6
70%	52.7	42.0	45.3	79.4	73.9	55.2	38.8	44.1	46.3	33.1	39.6	86.3
80%	47.0	38.6	37.5	71.6	56.1	46.0	32.9	38.0	41.8	30.5	35.2	76.8
90%	40.4	34.5	34.1	64.8	49.1	35.2	24.8	17.7	30.6	28.2	31.5	70.3
Long Term												
Full Simulation Period[b]	102.4	98.7	101.8	114.0	95.0	76.5	64.7	61.8	57.1	45.4	62.4	99.7
Water Year Types[c]												
Wet (32%)	84.0	72.1	67.4	76.6	62.4	44.8	31.3	32.2	39.4	33.5	37.2	82.6
Above Normal (16%)	124.1	120.7	108.7	109.1	92.8	66.4	52.2	51.7	50.3	31.5	38.4	73.7
Below Normal (13%)	86.1	74.8	88.3	111.8	100.5	82.2	68.8	68.9	62.0	38.4	57.7	116.0
Dry (24%)	100.7	103.4	113.1	136.5	108.7	91.2	82.3	76.5	60.4	49.6	89.5	113.8
Critical (15%)	136.3	146.4	162.4	164.8	140.1	126.2	117.4	106.1	92.6	85.5	102.5	126.5

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	172.3	185.8	196.2	192.0	136.6	116.0	103.4	91.5	63.5	70.8	113.3	139.8
20%	159.3	160.5	175.1	177.8	120.1	99.5	90.4	78.3	52.5	50.0	79.8	128.9
30%	151.8	147.4	164.1	165.5	110.5	87.9	74.2	61.9	44.8	43.2	67.8	118.4
40%	149.3	141.0	157.8	149.9	96.8	76.9	61.0	48.4	39.3	41.0	61.6	113.4
50%	145.0	133.7	149.3	139.1	89.8	63.3	50.3	43.1	35.7	39.1	54.6	108.5
60%	138.6	131.8	140.0	96.4	77.3	57.2	43.0	37.6	33.7	35.8	44.3	103.1
70%	133.0	126.7	125.1	82.5	67.9	49.2	36.9	33.8	31.4	31.4	37.4	100.1
80%	127.8	113.4	97.1	69.8	52.0	39.6	31.3	31.1	28.9	29.0	35.7	90.7
90%	112.8	97.7	46.3	60.0	39.6	35.4	25.0	21.0	27.2	27.0	29.9	77.2
Long Term												
Full Simulation Period[b]	139.6	136.6	138.9	126.3	89.1	71.8	59.3	51.7	43.3	44.1	60.3	107.3
Water Year Types[c]												
Wet (32%)	125.9	121.7	110.3	81.3	54.4	41.7	29.8	27.5	30.4	32.9	35.6	83.9
Above Normal (16%)	154.7	146.8	138.6	129.7	87.2	58.7	42.9	36.7	32.5	30.2	38.6	109.6
Below Normal (13%)	130.6	117.6	135.3	142.5	102.2	77.3	62.7	56.0	40.6	38.5	61.9	120.5
Dry (24%)	141.3	142.1	157.8	153.2	104.9	86.6	74.6	62.1	44.6	47.9	82.5	115.6
Critical (15%)	158.5	166.4	173.2	160.3	128.1	121.7	112.4	99.3	83.3	82.1	98.9	129.7

Alternative 3 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2.4	-1.6	-7.0	4.3	-4.7	-9.3	-5.0	-4.9	-23.4	-2.2	2.0	4.3
20%	2.9	12.4	7.5	9.7	-1.6	-3.7	-2.4	-10.5	-18.7	-3.7	-8.5	4.4
30%	6.7	12.4	18.8	30.5	1.9	-2.5	-4.3	-19.8	-17.1	-2.3	-3.1	4.0
40%	8.9	11.9	33.9	36.3	-5.9	-4.9	-8.6	-24.5	-17.0	-0.8	1.3	10.8
50%	22.5	23.6	74.1	36.0	-4.5	-6.6	-11.9	-13.9	-17.1	0.4	-1.3	9.4
60%	81.2	83.0	83.4	1.8	-10.8	-6.8	-4.5	-12.0	-15.9	0.1	-0.3	8.5
70%	80.3	84.7	79.8	3.0	-6.1	-6.0	-1.9	-10.3	-14.9	-1.7	-2.2	13.8
80%	80.8	74.8	59.5	-1.8	-4.0	-6.4	-1.6	-6.9	-12.8	-1.4	0.5	13.9
90%	72.4	63.2	12.2	-4.8	-9.5	0.2	0.2	3.3	-3.4	-1.2	-1.7	6.9
Long Term												
Full Simulation Period[b]	37.3	38.0	37.1	12.3	-5.9	-4.7	-5.4	-10.1	-13.8	-1.3	-2.1	7.6
Water Year Types[c]												
Wet (32%)	41.9	49.6	42.9	4.7	-8.0	-3.2	-1.5	-4.7	-9.0	-0.6	-1.6	1.4
Above Normal (16%)	30.6	26.1	29.9	20.7	-5.6	-7.7	-9.3	-15.0	-17.8	-1.3	0.3	35.8
Below Normal (13%)	44.5	42.7	47.1	30.7	1.7	-5.0	-6.1	-12.9	-21.5	0.1	4.1	4.5
Dry (24%)	40.6	38.7	44.7	16.7	-3.8	-4.7	-7.6	-14.5	-15.8	-1.7	-7.0	1.7
Critical (15%)	22.2	20.1	10.8	-4.5	-12.0	-4.4	-5.1	-6.8	-9.3	-3.4	-3.6	3.1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.18.3. Banks Pumping Plant, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	169.9	187.4	203.2	187.8	141.3	125.2	108.4	96.5	87.0	73.0	111.3	135.5
20%	156.4	148.1	167.6	168.1	121.7	103.2	92.8	88.8	71.2	53.7	88.3	124.6
30%	145.0	135.0	145.3	135.0	108.7	90.5	78.5	81.7	61.9	45.5	71.0	114.5
40%	140.5	129.1	124.0	113.6	102.7	81.8	69.6	72.9	56.3	41.8	60.3	102.6
50%	122.5	110.0	75.2	103.1	94.3	69.9	62.2	57.1	52.8	38.7	55.8	99.0
60%	57.4	48.8	56.6	94.6	88.1	64.0	47.5	49.6	49.5	35.7	44.6	94.6
70%	52.7	42.0	45.3	79.4	73.9	55.2	38.8	44.1	46.3	33.1	39.6	86.3
80%	47.0	38.6	37.5	71.6	56.1	46.0	32.9	38.0	41.8	30.5	35.2	76.8
90%	40.4	34.5	34.1	64.8	49.1	35.2	24.8	17.7	30.6	28.2	31.5	70.3
Long Term												
Full Simulation Period[b]	102.4	98.7	101.8	114.0	95.0	76.5	64.7	61.8	57.1	45.4	62.4	99.7
Water Year Types[c]												
Wet (32%)	84.0	72.1	67.4	76.6	62.4	44.8	31.3	32.2	39.4	33.5	37.2	82.6
Above Normal (16%)	124.1	120.7	108.7	109.1	92.8	66.4	52.2	51.7	50.3	31.5	38.4	73.7
Below Normal (13%)	86.1	74.8	88.3	111.8	100.5	82.2	68.8	68.9	62.0	38.4	57.7	116.0
Dry (24%)	100.7	103.4	113.1	136.5	108.7	91.2	82.3	76.5	60.4	49.6	89.5	113.8
Critical (15%)	136.3	146.4	162.4	164.8	140.1	126.2	117.4	106.1	92.6	85.5	102.5	126.5

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	168.9	188.6	203.7	188.5	141.3	125.1	118.5	109.3	103.1	80.2	114.0	135.3
20%	159.9	158.7	169.7	167.8	122.1	103.3	96.7	95.4	82.2	59.0	94.3	125.6
30%	147.0	135.9	146.0	134.8	108.8	90.5	82.6	83.1	74.9	47.5	77.1	118.7
40%	141.8	130.7	124.0	113.1	102.8	81.6	69.2	65.4	60.9	42.3	61.8	112.6
50%	128.1	113.1	75.4	102.3	94.5	70.0	62.9	55.6	53.5	39.5	56.0	100.0
60%	58.5	48.5	56.6	94.6	88.1	63.9	47.6	47.7	49.7	37.0	44.6	95.0
70%	52.9	41.1	45.4	79.4	74.0	55.9	39.1	43.4	46.7	33.3	39.6	89.2
80%	48.5	39.0	36.7	71.8	57.5	46.1	32.7	37.8	44.5	30.2	34.3	77.3
90%	40.8	34.6	34.4	65.1	49.0	35.8	24.9	17.9	30.8	28.6	30.0	69.1
Long Term												
Full Simulation Period[b]	103.7	99.6	101.8	114.3	95.3	76.9	66.5	64.0	62.7	46.7	64.3	101.4
Water Year Types[c]												
Wet (32%)	84.5	73.5	69.0	76.6	62.6	45.1	31.4	31.1	39.2	33.5	37.1	82.3
Above Normal (16%)	127.7	122.8	106.9	108.6	92.8	66.4	51.7	49.0	50.1	31.7	38.3	73.5
Below Normal (13%)	85.8	75.4	88.4	111.7	100.3	82.0	68.5	64.8	64.1	39.4	57.9	117.8
Dry (24%)	102.4	103.4	112.1	138.6	109.8	91.6	85.6	82.7	72.6	52.7	96.0	118.3
Critical (15%)	137.7	146.7	162.3	164.2	140.4	127.7	124.6	119.3	109.9	88.4	104.2	129.8

Alternative 5 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-0.9	1.2	0.5	0.8	0.0	-0.1	10.1	12.8	16.2	7.1	2.6	-0.2
20%	3.5	10.5	2.2	-0.3	0.4	0.1	4.0	6.6	11.0	5.3	6.0	1.0
30%	2.0	1.0	0.8	-0.1	0.1	0.0	4.1	1.4	13.0	2.0	6.1	4.2
40%	1.3	1.6	0.0	-0.4	0.2	-0.1	-0.4	-7.4	4.6	0.6	1.5	9.9
50%	5.6	3.0	0.2	-0.8	0.1	0.1	0.7	-1.5	0.7	0.8	0.2	0.9
60%	1.1	-0.2	0.0	0.0	0.0	-0.1	0.0	-2.0	0.1	1.3	-0.1	0.4
70%	0.2	-1.0	0.2	0.0	0.1	0.6	0.3	-0.7	0.4	0.2	0.0	2.8
80%	1.5	0.3	-0.9	0.2	1.4	0.0	-0.2	-0.2	2.7	-0.3	-0.9	0.5
90%	0.4	0.2	0.3	0.3	0.0	0.6	0.1	0.2	0.2	0.4	-1.5	-1.2
Long Term												
Full Simulation Period[b]	1.3	0.9	0.0	0.3	0.3	0.4	1.8	2.1	5.6	1.4	1.8	1.7
Water Year Types[c]												
Wet (32%)	0.5	1.4	1.6	0.0	0.1	0.3	0.1	-1.1	-0.2	0.0	-0.1	-0.3
Above Normal (16%)	3.6	2.1	-1.8	-0.5	0.0	0.0	-0.5	-2.7	-0.2	0.2	-0.1	-0.3
Below Normal (13%)	-0.3	0.6	0.2	-0.2	-0.2	-0.2	-0.3	-4.1	2.0	1.0	0.2	1.8
Dry (24%)	1.7	0.0	-1.0	2.1	1.2	0.4	3.3	6.2	12.1	3.1	6.5	4.5
Critical (15%)	1.4	0.3	-0.2	-0.6	0.2	1.5	7.2	13.2	17.2	2.9	1.7	3.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.18.4. Banks Pumping Plant, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	166.0	185.8	193.1	193.8	142.0	105.3	80.7	69.3	71.3	67.6	99.2	131.1
20%	159.4	159.2	176.8	179.0	123.6	83.0	68.8	63.8	63.0	48.1	73.6	125.4
30%	157.2	149.8	167.2	158.0	100.3	72.4	56.4	58.1	47.0	42.9	66.5	116.8
40%	150.0	140.9	156.1	148.6	83.3	65.2	50.9	45.0	42.4	40.1	61.4	110.6
50%	146.0	136.6	148.1	140.5	77.9	60.0	45.8	41.2	39.2	37.6	52.1	106.4
60%	142.6	130.8	140.7	84.4	67.2	53.2	41.7	36.8	36.6	33.9	42.4	103.6
70%	135.7	123.4	124.7	69.5	56.9	45.8	37.3	35.3	34.6	30.9	38.5	100.6
80%	129.3	113.8	93.0	62.1	50.5	40.1	31.6	31.2	31.8	28.6	35.4	89.1
90%	112.7	85.2	45.2	50.0	39.9	34.7	22.4	19.9	29.5	27.1	31.9	82.3
Long Term												
Full Simulation Period[b]	140.5	134.4	137.7	122.0	85.7	64.3	51.6	47.2	45.8	42.9	57.9	106.4
Water Year Types[c]												
Wet (32%)	127.3	120.0	106.7	70.3	50.1	41.9	29.3	27.2	34.4	33.3	35.8	86.9
Above Normal (16%)	151.8	140.2	135.0	118.9	75.9	55.4	41.3	36.8	35.9	30.1	38.9	108.0
Below Normal (13%)	130.8	119.2	135.1	136.5	109.9	76.2	57.9	48.8	37.0	33.7	58.6	107.7
Dry (24%)	144.9	139.3	155.6	149.5	97.9	68.1	57.4	55.9	50.8	45.1	74.3	116.0
Critical (15%)	158.4	165.1	180.6	178.5	131.0	105.5	95.8	86.0	81.2	82.5	98.4	129.7

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	169.9	187.4	203.2	187.8	141.3	125.2	108.4	96.5	87.0	73.0	111.3	135.5
20%	156.4	148.1	167.6	168.1	121.7	103.2	92.8	88.8	71.2	53.7	88.3	124.6
30%	145.0	135.0	145.3	135.0	108.7	90.5	78.5	81.7	61.9	45.5	71.0	114.5
40%	140.5	129.1	124.0	113.6	102.7	81.8	69.6	72.9	56.3	41.8	60.3	102.6
50%	122.5	110.0	75.2	103.1	94.3	69.9	62.2	57.1	52.8	38.7	55.8	99.0
60%	57.4	48.8	56.6	94.6	88.1	64.0	47.5	49.6	49.5	35.7	44.6	94.6
70%	52.7	42.0	45.3	79.4	73.9	55.2	38.8	44.1	46.3	33.1	39.6	86.3
80%	47.0	38.6	37.5	71.6	56.1	46.0	32.9	38.0	41.8	30.5	35.2	76.8
90%	40.4	34.5	34.1	64.8	49.1	35.2	24.8	17.7	30.6	28.2	31.5	70.3
Long Term												
Full Simulation Period[b]	102.4	98.7	101.8	114.0	95.0	76.5	64.7	61.8	57.1	45.4	62.4	99.7
Water Year Types[c]												
Wet (32%)	84.0	72.1	67.4	76.6	62.4	44.8	31.3	32.2	39.4	33.5	37.2	82.6
Above Normal (16%)	124.1	120.7	108.7	109.1	92.8	66.4	52.2	51.7	50.3	31.5	38.4	73.7
Below Normal (13%)	86.1	74.8	88.3	111.8	100.5	82.2	68.8	68.9	62.0	38.4	57.7	116.0
Dry (24%)	100.7	103.4	113.1	136.5	108.7	91.2	82.3	76.5	60.4	49.6	89.5	113.8
Critical (15%)	136.3	146.4	162.4	164.8	140.1	126.2	117.4	106.1	92.6	85.5	102.5	126.5

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3.9	1.6	10.1	**-6.1**	**-0.8**	19.9	27.7	27.1	15.6	5.5	12.2	4.4
20%	**-3.0**	**-11.1**	**-9.3**	**-10.9**	**-1.8**	20.2	24.0	24.9	8.1	5.6	14.7	**-0.9**
30%	**-12.1**	**-14.8**	**-22.0**	**-23.1**	8.3	18.1	22.0	23.6	14.9	2.6	4.5	**-2.3**
40%	**-9.5**	**-11.8**	**-32.1**	**-35.1**	19.3	16.6	18.7	27.9	13.9	1.7	**-1.0**	**-8.0**
50%	**-23.5**	**-26.5**	**-72.9**	**-37.3**	16.4	10.0	16.4	15.8	13.6	1.1	3.8	**-7.4**
60%	**-85.2**	**-82.0**	**-84.1**	10.2	20.8	10.8	5.8	12.9	12.9	1.8	2.3	**-9.0**
70%	**-83.1**	**-81.4**	**-79.4**	10.0	17.0	9.4	1.5	8.8	11.8	2.2	1.1	**-14.3**
80%	**-82.3**	**-75.1**	**-55.4**	9.5	5.6	6.0	1.2	6.8	10.0	1.9	**-0.2**	**-12.3**
90%	**-72.3**	**-50.8**	**-11.2**	14.8	9.2	0.5	2.4	**-2.2**	1.1	1.0	**-0.4**	**-12.0**
Long Term												
Full Simulation Period[b]	**-38.1**	**-35.7**	**-35.9**	**-8.0**	9.3	12.2	13.0	14.6	11.2	2.5	4.5	**-6.7**
Water Year Types[c]												
Wet (32%)	**-43.3**	**-47.9**	**-39.2**	6.3	12.3	3.0	2.0	4.9	5.0	0.2	1.4	**-4.4**
Above Normal (16%)	**-27.7**	**-19.5**	**-26.3**	**-9.8**	16.9	11.0	10.9	14.9	14.4	1.4	**-0.5**	**-34.3**
Below Normal (13%)	**-44.7**	**-44.4**	**-46.8**	**-24.6**	**-9.4**	6.0	10.9	20.1	25.0	4.7	**-0.9**	8.3
Dry (24%)	**-44.2**	**-35.9**	**-42.6**	**-13.0**	10.8	23.1	24.9	20.7	9.6	4.5	15.2	**-2.2**
Critical (15%)	**-22.1**	**-18.7**	**-18.1**	**-13.7**	9.2	20.7	21.6	20.1	11.5	3.0	4.1	**-3.2**

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.18.5. Banks Pumping Plant, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	166.0	185.8	193.1	193.8	142.0	105.3	80.7	69.3	71.3	67.6	99.2	131.1
20%	159.4	159.2	176.8	179.0	123.6	83.0	68.8	63.8	63.0	48.1	73.6	125.4
30%	157.2	149.8	167.2	158.0	100.3	72.4	56.4	58.1	47.0	42.9	66.5	116.8
40%	150.0	140.9	156.1	148.6	83.3	65.2	50.9	45.0	42.4	40.1	61.4	110.6
50%	146.0	136.6	148.1	140.5	77.9	60.0	45.8	41.2	39.2	37.6	52.1	106.4
60%	142.6	130.8	140.7	84.4	67.2	53.2	41.7	36.8	36.6	33.9	42.4	103.6
70%	135.7	123.4	124.7	69.5	56.9	45.8	37.3	35.3	34.6	30.9	38.5	100.6
80%	129.3	113.8	93.0	62.1	50.5	40.1	31.6	31.2	31.8	28.6	35.4	89.1
90%	112.7	85.2	45.2	50.0	39.9	34.7	22.4	19.9	29.5	27.1	31.9	82.3
Long Term												
Full Simulation Period[b]	140.5	134.4	137.7	122.0	85.7	64.3	51.6	47.2	45.8	42.9	57.9	106.4
Water Year Types[c]												
Wet (32%)	127.3	120.0	106.7	70.3	50.1	41.9	29.3	27.2	34.4	33.3	35.8	86.9
Above Normal (16%)	151.8	140.2	135.0	118.9	75.9	55.4	41.3	36.8	35.9	30.1	38.9	108.0
Below Normal (13%)	130.8	119.2	135.1	136.5	109.9	76.2	57.9	48.8	37.0	33.7	58.6	107.7
Dry (24%)	144.9	139.3	155.6	149.5	97.9	68.1	57.4	55.9	50.8	45.1	74.3	116.0
Critical (15%)	158.4	165.1	180.6	178.5	131.0	105.5	95.8	86.0	81.2	82.5	98.4	129.7

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	172.3	185.8	196.2	192.0	136.6	116.0	103.4	91.5	63.5	70.8	113.3	139.8
20%	159.3	160.5	175.1	177.8	120.1	99.5	90.4	78.3	52.5	50.0	79.8	128.9
30%	151.8	147.4	164.1	165.5	110.5	87.9	74.2	61.9	44.8	43.2	67.8	118.4
40%	149.3	141.0	157.8	149.9	96.8	76.9	61.0	48.4	39.3	41.0	61.6	113.4
50%	145.0	133.7	149.3	139.1	89.8	63.3	50.3	43.1	35.7	39.1	54.6	108.5
60%	138.6	131.8	140.0	96.4	77.3	57.2	43.0	37.6	33.7	35.8	44.3	103.1
70%	133.0	126.7	125.1	82.5	67.9	49.2	36.9	33.8	31.4	31.4	37.4	100.1
80%	127.8	113.4	97.1	69.8	52.0	39.6	31.3	31.1	28.9	29.0	35.7	90.7
90%	112.8	97.7	46.3	60.0	39.6	35.4	25.0	21.0	27.2	27.0	29.9	77.2
Long Term												
Full Simulation Period[b]	139.6	136.6	138.9	126.3	89.1	71.8	59.3	51.7	43.3	44.1	60.3	107.3
Water Year Types[c]												
Wet (32%)	125.9	121.7	110.3	81.3	54.4	41.7	29.8	27.5	30.4	32.9	35.6	83.9
Above Normal (16%)	154.7	146.8	138.6	129.7	87.2	58.7	42.9	36.7	32.5	30.2	38.6	109.6
Below Normal (13%)	130.6	117.6	135.3	142.5	102.2	77.3	62.7	56.0	40.6	38.5	61.9	120.5
Dry (24%)	141.3	142.1	157.8	153.2	104.9	86.6	74.6	62.1	44.6	47.9	82.5	115.6
Critical (15%)	158.5	166.4	173.2	160.3	128.1	121.7	112.4	99.3	83.3	82.1	98.9	129.7

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	6.3	0.0	3.1	-1.8	-5.5	10.7	22.6	22.2	-7.8	3.2	14.2	8.7
20%	-0.1	1.3	-1.8	-1.2	-3.5	16.5	21.6	14.5	-10.6	1.9	6.2	3.5
30%	-5.4	-2.4	-3.1	7.5	10.2	15.6	17.8	3.8	-2.2	0.3	1.4	1.7
40%	-0.7	0.1	1.7	1.3	13.5	11.7	10.2	3.4	-3.1	0.9	0.3	2.8
50%	-1.1	-2.9	1.2	-1.3	11.9	3.4	4.5	1.9	-3.6	1.5	2.5	2.1
60%	-4.0	1.0	-0.7	12.0	10.1	4.0	1.2	0.9	-2.9	1.9	1.9	-0.5
70%	-2.7	3.3	0.4	13.0	11.0	3.4	-0.5	-1.5	-3.1	0.5	-1.1	-0.5
80%	-1.5	-0.4	4.1	7.7	1.6	-0.5	-0.4	-0.1	-2.9	0.4	0.3	1.6
90%	0.1	12.5	1.1	10.0	-0.3	0.8	2.6	1.1	-2.3	-0.1	-2.0	-5.1
Long Term												
Full Simulation Period[b]	-0.9	2.2	1.2	4.3	3.4	7.5	7.7	4.5	-2.6	1.2	2.4	0.9
Water Year Types[c]												
Wet (32%)	-1.4	1.7	3.6	11.0	4.3	-0.2	0.5	0.2	-4.1	-0.4	-0.2	-3.0
Above Normal (16%)	2.9	6.5	3.6	10.8	11.3	3.3	1.6	-0.1	-3.4	0.1	-0.3	1.5
Below Normal (13%)	-0.1	-1.7	0.2	6.1	-7.7	1.1	4.8	7.2	3.6	4.8	3.3	12.8
Dry (24%)	-3.6	2.8	2.2	3.7	7.0	18.5	17.2	6.2	-6.2	2.8	8.2	-0.5
Critical (15%)	0.1	1.4	-7.4	-18.2	-2.8	16.2	16.5	13.3	2.2	-0.4	0.5	-0.1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.18.6. Banks Pumping Plant, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	166.0	185.8	193.1	193.8	142.0	105.3	80.7	69.3	71.3	67.6	99.2	131.1
20%	159.4	159.2	176.8	179.0	123.6	83.0	68.8	63.8	63.0	48.1	73.6	125.4
30%	157.2	149.8	167.2	158.0	100.3	72.4	56.4	58.1	47.0	42.9	66.5	116.8
40%	150.0	140.9	156.1	148.6	83.3	65.2	50.9	45.0	42.4	40.1	61.4	110.6
50%	146.0	136.6	148.1	140.5	77.9	60.0	45.8	41.2	39.2	37.6	52.1	106.4
60%	142.6	130.8	140.7	84.4	67.2	53.2	41.7	36.8	36.6	33.9	42.4	103.6
70%	135.7	123.4	124.7	69.5	56.9	45.8	37.3	35.3	34.6	30.9	38.5	100.6
80%	129.3	113.8	93.0	62.1	50.5	40.1	31.6	31.2	31.8	28.6	35.4	89.1
90%	112.7	85.2	45.2	50.0	39.9	34.7	22.4	19.9	29.5	27.1	31.9	82.3
Long Term												
Full Simulation Period[b]	140.5	134.4	137.7	122.0	85.7	64.3	51.6	47.2	45.8	42.9	57.9	106.4
Water Year Types[c]												
Wet (32%)	127.3	120.0	106.7	70.3	50.1	41.9	29.3	27.2	34.4	33.3	35.8	86.9
Above Normal (16%)	151.8	140.2	135.0	118.9	75.9	55.4	41.3	36.8	35.9	30.1	38.9	108.0
Below Normal (13%)	130.8	119.2	135.1	136.5	109.9	76.2	57.9	48.8	37.0	33.7	58.6	107.7
Dry (24%)	144.9	139.3	155.6	149.5	97.9	68.1	57.4	55.9	50.8	45.1	74.3	116.0
Critical (15%)	158.4	165.1	180.6	178.5	131.0	105.5	95.8	86.0	81.2	82.5	98.4	129.7

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	168.9	188.6	203.7	188.5	141.3	125.1	118.5	109.3	103.1	80.2	114.0	135.3
20%	159.9	158.7	169.7	167.8	122.1	103.3	96.7	95.4	82.2	59.0	94.3	125.6
30%	147.0	135.9	146.0	134.8	108.8	90.5	82.6	83.1	74.9	47.5	77.1	118.7
40%	141.8	130.7	124.0	113.1	102.8	81.6	69.2	65.4	60.9	42.3	61.8	112.6
50%	128.1	113.1	75.4	102.3	94.5	70.0	62.9	55.6	53.5	39.5	56.0	100.0
60%	58.5	48.5	56.6	94.6	88.1	63.9	47.6	47.7	49.7	37.0	44.6	95.0
70%	52.9	41.1	45.4	79.4	74.0	55.9	39.1	43.4	46.7	33.3	39.6	89.2
80%	48.5	39.0	36.7	71.8	57.5	46.1	32.7	37.8	44.5	30.2	34.3	77.3
90%	40.8	34.6	34.4	65.1	49.0	35.8	24.9	17.9	30.8	28.6	30.0	69.1
Long Term												
Full Simulation Period[b]	103.7	99.6	101.8	114.3	95.3	76.9	66.5	64.0	62.7	46.7	64.3	101.4
Water Year Types[c]												
Wet (32%)	84.5	73.5	69.0	76.6	62.6	45.1	31.4	31.1	39.2	33.5	37.1	82.3
Above Normal (16%)	127.7	122.8	106.9	108.6	92.8	66.4	51.7	49.0	50.1	31.7	38.3	73.5
Below Normal (13%)	85.8	75.4	88.4	111.7	100.3	82.0	68.5	64.8	64.1	39.4	57.9	117.8
Dry (24%)	102.4	103.4	112.1	138.6	109.8	91.6	85.6	82.7	72.6	52.7	96.0	118.3
Critical (15%)	137.7	146.7	162.3	164.2	140.4	127.7	124.6	119.3	109.9	88.4	104.2	129.8

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2.9	2.7	10.6	-5.3	-0.7	19.8	37.8	39.9	31.8	12.6	14.8	4.2
20%	0.6	-0.6	-7.1	-11.2	-1.4	20.2	27.9	31.6	19.1	10.9	20.6	0.2
30%	-10.2	-13.9	-21.2	-23.2	8.4	18.1	26.1	25.0	27.8	4.5	10.6	1.9
40%	-8.2	-10.2	-32.1	-35.5	19.5	16.4	18.4	20.5	18.5	2.2	0.4	1.9
50%	-17.9	-23.5	-72.8	-38.1	16.5	10.0	17.1	14.4	14.2	1.9	3.9	-6.4
60%	-84.1	-82.3	-84.1	10.2	20.8	10.7	5.8	10.9	13.0	3.1	2.2	-8.6
70%	-82.8	-82.4	-79.3	10.0	17.1	10.1	1.8	8.1	12.2	2.4	1.1	-11.4
80%	-80.8	-74.8	-56.3	9.7	7.0	6.0	1.0	6.6	12.7	1.6	-1.1	-11.8
90%	-71.9	-50.6	-10.9	15.1	9.2	1.1	2.5	-2.0	1.3	1.4	-1.9	-13.1
Long Term												
Full Simulation Period[b]	-36.8	-34.8	-36.0	-7.7	9.6	12.5	14.8	16.7	16.9	3.8	6.4	-5.0
Water Year Types[c]												
Wet (32%)	-42.8	-46.5	-37.7	6.3	12.4	3.3	2.1	3.9	4.7	0.2	1.3	-4.7
Above Normal (16%)	-24.1	-17.4	-28.1	-10.3	16.9	11.0	10.4	12.2	14.2	1.6	-0.6	-34.6
Below Normal (13%)	-44.9	-43.8	-46.7	-24.8	-9.6	5.8	10.6	15.9	27.1	5.7	-0.7	10.1
Dry (24%)	-42.5	-35.9	-43.6	-11.0	12.0	23.5	28.2	26.8	21.7	7.6	21.7	2.3
Critical (15%)	-20.7	-18.4	-18.3	-14.3	9.4	22.2	28.8	33.3	28.7	5.9	5.8	0.1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.19. Old River at Rock Slough Chloride Concentration

Table 6E.B.19.1. Old River at Rock Slough, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	255.2	275.8	258.9	201.0	95.1	61.2	63.0	58.8	40.3	89.3	155.8	207.5
20%	233.0	212.0	226.9	165.4	84.7	47.7	54.8	52.8	31.5	58.8	135.7	191.7
30%	213.2	183.6	190.0	126.9	65.6	40.1	47.8	49.9	28.9	50.0	111.1	178.8
40%	196.7	168.5	120.7	104.2	59.5	36.1	44.8	46.3	28.1	44.7	91.2	164.3
50%	181.9	124.1	72.5	86.8	49.9	32.7	41.2	43.9	27.1	30.2	78.6	140.9
60%	32.8	37.2	50.1	72.7	43.2	29.4	39.9	41.1	26.4	26.1	66.1	123.3
70%	30.3	24.7	38.6	50.8	34.7	27.0	35.7	36.9	25.3	24.8	55.2	114.5
80%	29.1	23.0	28.6	39.1	31.5	24.2	30.5	29.7	23.9	23.4	50.0	96.0
90%	27.7	21.8	24.2	30.8	27.8	23.3	26.3	20.0	22.9	21.9	42.0	85.7
Long Term												
Full Simulation Period[b]	133.3	125.6	118.7	102.3	58.7	38.1	43.3	42.5	31.2	47.5	90.2	143.4
Water Year Types[c]												
Wet (32%)	95.1	80.5	60.7	51.3	42.8	31.9	33.0	34.4	24.6	23.4	49.2	103.3
Above Normal (16%)	177.3	159.9	119.0	86.0	48.5	30.3	46.3	49.3	26.2	25.3	57.1	89.6
Below Normal (13%)	93.9	87.2	104.5	103.1	56.8	34.9	50.3	51.2	29.1	41.4	85.5	181.0
Dry (24%)	134.8	134.2	143.2	137.1	65.1	39.7	44.2	39.8	28.3	66.0	127.9	172.5
Critical (15%)	202.0	207.0	215.9	171.7	94.8	59.9	54.2	49.3	58.0	98.4	156.7	205.6

Alternative 1

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	257.7	275.2	280.8	231.3	145.5	59.5	40.3	37.7	39.9	86.2	150.0	209.0
20%	236.7	236.6	245.5	201.4	99.0	48.8	33.3	31.4	31.1	50.6	113.7	195.6
30%	224.6	215.3	239.7	181.6	69.6	42.7	30.3	27.9	28.1	45.9	101.2	185.5
40%	218.2	199.1	229.5	165.4	56.6	31.1	27.0	26.4	26.3	37.9	91.5	173.3
50%	210.2	191.5	197.8	120.7	47.0	28.8	25.7	25.2	24.2	29.3	74.3	169.4
60%	204.9	184.6	178.5	86.1	37.0	26.5	25.0	24.5	23.1	26.1	65.1	164.3
70%	196.0	173.4	148.4	42.8	33.1	24.4	24.2	23.4	22.1	24.9	51.0	161.2
80%	187.2	140.7	98.8	33.8	29.6	23.1	23.0	22.5	21.5	23.1	45.0	145.0
90%	164.1	90.2	31.6	27.4	23.4	21.0	21.8	20.7	20.7	22.2	38.8	123.3
Long Term												
Full Simulation Period[b]	205.5	188.4	183.9	124.6	65.1	36.6	30.0	28.0	30.1	44.3	83.9	168.1
Water Year Types[c]												
Wet (32%)	182.9	169.9	126.1	53.6	37.4	32.4	27.8	22.4	23.0	23.2	44.5	134.4
Above Normal (16%)	228.2	193.7	177.4	115.3	46.0	27.6	25.7	23.4	22.0	24.8	56.0	169.5
Below Normal (13%)	186.4	164.8	187.7	154.4	94.3	38.7	29.6	26.9	24.2	40.9	85.3	170.7
Dry (24%)	211.0	195.1	219.0	163.6	77.1	34.0	27.9	29.1	27.9	53.2	110.8	181.9
Critical (15%)	238.4	233.2	254.5	196.0	99.3	58.1	43.2	44.0	62.9	99.0	153.2	213.8

Alternative 1 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2.6	-0.6	21.9	30.3	50.4	-1.7	-22.7	-21.1	-0.4	-3.1	-5.8	1.6
20%	3.7	24.5	18.6	36.1	14.3	1.1	-21.5	-21.4	-0.4	-8.2	-21.9	3.9
30%	11.3	31.7	49.7	54.7	3.9	2.5	-17.4	-21.9	-0.8	-4.1	-9.8	6.8
40%	21.6	30.7	108.8	61.1	-2.9	-4.9	-17.8	-19.9	-1.8	-6.8	0.3	9.0
50%	28.3	67.4	125.3	33.9	-2.9	-3.8	-15.5	-18.7	-2.9	-0.9	-4.3	28.5
60%	172.2	147.4	128.5	13.5	-6.2	-2.8	-14.9	-16.6	-3.3	-0.1	-1.0	41.0
70%	165.7	148.7	109.8	-8.0	-1.5	-2.6	-11.6	-13.5	-3.2	0.1	-4.2	46.6
80%	158.1	117.7	70.2	-5.2	-1.9	-1.2	-7.4	-7.2	-2.3	-0.2	-5.0	49.0
90%	136.4	68.4	7.5	-3.4	-4.4	-2.3	-4.5	0.7	-2.2	0.3	-3.1	37.6
Long Term												
Full Simulation Period[b]	72.2	62.8	65.3	22.3	6.5	-1.4	-13.3	-14.6	-1.2	-3.2	-6.4	24.7
Water Year Types[c]												
Wet (32%)	87.8	89.3	65.4	2.2	-5.4	0.5	-5.2	-12.0	-1.6	-0.1	-4.7	31.1
Above Normal (16%)	50.8	33.8	58.4	29.4	-2.6	-2.7	-20.6	-25.9	-4.2	-0.4	-1.0	79.9
Below Normal (13%)	92.5	77.6	83.2	51.3	37.5	3.8	-20.7	-24.3	-4.9	-0.5	-0.1	-10.3
Dry (24%)	76.2	60.9	75.8	26.5	12.0	-5.7	-16.3	-10.6	-0.3	-12.7	-17.2	9.5
Critical (15%)	36.4	26.2	38.6	24.3	4.4	-1.8	-11.0	-5.4	4.9	0.6	-3.6	8.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.19.2. Old River at Rock Slough, Monthly Chloride Concentration

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	255.2	275.8	258.9	201.0	95.1	61.2	63.0	58.8	40.3	89.3	155.8	207.5
20%	233.0	212.0	226.9	165.4	84.7	47.7	54.8	52.8	31.5	58.8	135.7	191.7
30%	213.2	183.6	190.0	126.9	65.6	40.1	47.8	49.9	28.9	50.0	111.1	178.8
40%	196.7	168.5	120.7	104.2	59.5	36.1	44.8	46.3	28.1	44.7	91.2	164.3
50%	181.9	124.1	72.5	86.8	49.9	32.7	41.2	43.9	27.1	30.2	78.6	140.9
60%	32.8	37.2	50.1	72.7	43.2	29.4	39.9	41.1	26.4	26.1	66.1	123.3
70%	30.3	24.7	38.6	50.8	34.7	27.0	35.7	36.9	25.3	24.8	55.2	114.5
80%	29.1	23.0	28.6	39.1	31.5	24.2	30.5	29.7	23.9	23.4	50.0	96.0
90%	27.7	21.8	24.2	30.8	27.8	23.3	26.3	20.0	22.9	21.9	42.0	85.7
Long Term												
Full Simulation Period[b]	133.3	125.6	118.7	102.3	58.7	38.1	43.3	42.5	31.2	47.5	90.2	143.4
Water Year Types[c]												
Wet (32%)	95.1	80.5	60.7	51.3	42.8	31.9	33.0	34.4	24.6	23.4	49.2	103.3
Above Normal (16%)	177.3	159.9	119.0	86.0	48.5	30.3	46.3	49.3	26.2	25.3	57.1	89.6
Below Normal (13%)	93.9	87.2	104.5	103.1	56.8	34.9	50.3	51.2	29.1	41.4	85.5	181.0
Dry (24%)	134.8	134.2	143.2	137.1	65.1	39.7	44.2	39.8	28.3	66.0	127.9	172.5
Critical (15%)	202.0	207.0	215.9	171.7	94.8	59.9	54.2	49.3	58.0	98.4	156.7	205.6

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	256.5	270.6	280.0	204.8	94.0	52.7	48.3	39.4	36.8	106.4	158.9	217.0
20%	237.6	237.7	251.2	184.1	77.5	45.1	38.7	32.4	29.4	59.2	131.4	194.0
30%	227.5	215.5	235.5	167.5	65.3	38.5	33.6	27.1	26.5	53.9	102.4	184.5
40%	219.4	197.8	225.3	143.0	56.8	33.5	29.8	25.3	24.7	43.1	95.3	179.6
50%	208.4	190.1	195.7	121.4	45.5	30.5	27.7	23.8	22.7	29.9	81.8	172.0
60%	200.5	183.0	176.3	82.0	39.9	27.5	25.2	23.0	22.0	26.7	64.1	164.6
70%	191.0	175.1	142.8	46.7	35.5	25.5	24.3	22.0	21.0	25.0	52.1	159.2
80%	185.4	158.7	95.0	39.6	29.1	23.5	23.5	21.1	20.2	23.9	43.4	144.5
90%	169.1	105.3	35.0	28.3	24.8	21.9	22.0	19.3	19.2	22.7	36.3	126.7
Long Term												
Full Simulation Period[b]	205.6	192.5	180.7	114.9	55.8	36.0	31.7	27.4	28.6	48.5	87.1	168.2
Water Year Types[c]												
Wet (32%)	180.9	173.5	126.0	58.3	39.2	30.3	26.4	21.0	21.1	23.6	43.3	129.5
Above Normal (16%)	234.8	204.3	175.4	109.7	44.4	27.4	26.4	22.5	21.1	25.7	56.0	171.2
Below Normal (13%)	187.4	161.4	188.8	137.3	60.7	32.7	31.5	27.8	24.7	48.0	91.4	185.5
Dry (24%)	208.6	202.1	218.7	150.0	62.1	37.3	32.7	28.1	26.4	65.0	121.1	179.5
Critical (15%)	239.1	233.0	234.4	163.8	89.3	58.7	47.6	45.1	60.4	100.2	155.5	213.9

Alternative 3 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	1.3	-5.2	21.1	3.8	-1.1	-8.4	-14.7	-19.4	-3.6	17.1	3.2	9.5
20%	4.6	25.7	24.4	18.7	-7.2	-2.7	-16.1	-20.4	-2.0	0.4	-4.3	2.4
30%	14.3	31.9	45.5	40.6	-0.3	-1.6	-14.2	-22.8	-2.3	3.9	-8.6	5.7
40%	22.7	29.3	104.6	38.7	-2.7	-2.6	-15.0	-21.0	-3.4	-1.6	4.0	15.3
50%	26.5	66.0	123.1	34.5	-4.4	-2.2	-13.5	-20.0	-4.5	-0.4	3.2	31.1
60%	167.7	145.9	126.2	9.3	-3.4	-1.9	-14.7	-18.1	-4.4	0.6	-2.0	41.3
70%	160.7	150.4	104.2	-4.0	0.8	-1.6	-11.4	-14.9	-4.3	0.2	-3.2	44.7
80%	156.3	135.6	66.4	0.6	-2.4	-0.8	-7.0	-8.5	-3.7	0.5	-6.7	48.6
90%	141.4	83.5	10.9	-2.5	-2.9	-1.4	-4.3	-0.7	-3.7	0.7	-5.7	41.0
Long Term												
Full Simulation Period[b]	72.3	66.8	62.1	12.6	-2.8	-2.0	-11.5	-15.1	-2.6	1.1	-3.1	24.8
Water Year Types[c]												
Wet (32%)	85.8	93.0	65.3	7.0	-3.6	-1.6	-6.6	-13.4	-3.5	0.2	-5.9	26.1
Above Normal (16%)	57.4	44.4	56.3	23.7	-4.1	-2.8	-19.9	-26.8	-5.1	0.5	-1.1	81.6
Below Normal (13%)	93.5	74.2	84.3	34.3	3.9	-2.2	-18.8	-23.4	-4.4	6.6	6.0	4.5
Dry (24%)	73.8	67.9	75.6	12.9	-3.0	-2.4	-11.5	-11.6	-1.9	-1.0	-6.8	7.0
Critical (15%)	37.1	26.0	18.5	-7.9	-5.6	-1.2	-6.7	-4.3	2.4	1.8	-1.2	8.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.19.3. Old River at Rock Slough, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	255.2	275.8	258.9	201.0	95.1	61.2	63.0	58.8	40.3	89.3	155.8	207.5
20%	233.0	212.0	226.9	165.4	84.7	47.7	54.8	52.8	31.5	58.8	135.7	191.7
30%	213.2	183.6	190.0	126.9	65.6	40.1	47.8	49.9	28.9	50.0	111.1	178.8
40%	196.7	168.5	120.7	104.2	59.5	36.1	44.8	46.3	28.1	44.7	91.2	164.3
50%	181.9	124.1	72.5	86.8	49.9	32.7	41.2	43.9	27.1	30.2	78.6	140.9
60%	32.8	37.2	50.1	72.7	43.2	29.4	39.9	41.1	26.4	26.1	66.1	123.3
70%	30.3	24.7	38.6	50.8	34.7	27.0	35.7	36.9	25.3	24.8	55.2	114.5
80%	29.1	23.0	28.6	39.1	31.5	24.2	30.5	29.7	23.9	23.4	50.0	96.0
90%	27.7	21.8	24.2	30.8	27.8	23.3	26.3	20.0	22.9	21.9	42.0	85.7
Long Term												
Full Simulation Period[b]	133.3	125.6	118.7	102.3	58.7	38.1	43.3	42.5	31.2	47.5	90.2	143.4
Water Year Types[c]												
Wet (32%)	95.1	80.5	60.7	51.3	42.8	31.9	33.0	34.4	24.6	23.4	49.2	103.3
Above Normal (16%)	177.3	159.9	119.0	86.0	48.5	30.3	46.3	49.3	26.2	25.3	57.1	89.6
Below Normal (13%)	93.9	87.2	104.5	103.1	56.8	34.9	50.3	51.2	29.1	41.4	85.5	181.0
Dry (24%)	134.8	134.2	143.2	137.1	65.1	39.7	44.2	39.8	28.3	66.0	127.9	172.5
Critical (15%)	202.0	207.0	215.9	171.7	94.8	59.9	54.2	49.3	58.0	98.4	156.7	205.6

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	265.2	274.3	257.6	214.2	95.4	61.1	82.8	87.5	49.7	93.2	159.7	208.8
20%	233.8	224.5	220.5	168.4	84.8	48.0	71.4	83.3	40.6	68.0	144.1	192.4
30%	216.1	187.1	191.2	127.9	67.2	39.7	65.3	77.5	33.7	52.5	115.6	185.5
40%	203.4	166.2	135.2	104.7	59.6	36.2	60.5	67.3	30.2	46.1	93.6	168.2
50%	178.1	127.0	67.3	87.5	49.7	32.7	53.1	61.3	28.6	29.9	79.1	144.5
60%	33.0	36.8	49.6	72.0	43.5	29.3	46.2	53.2	27.3	26.1	64.4	123.2
70%	30.2	24.5	39.1	48.5	34.6	27.0	41.5	48.6	26.0	24.9	56.2	114.4
80%	29.2	23.0	28.5	39.1	31.5	24.2	34.5	43.3	25.1	23.6	49.2	97.2
90%	28.1	21.8	24.2	30.8	27.8	23.3	26.6	20.0	23.8	21.8	41.9	84.4
Long Term												
Full Simulation Period[b]	134.6	126.0	118.6	103.2	59.7	38.4	54.8	59.9	34.0	48.4	92.8	145.7
Water Year Types[c]												
Wet (32%)	95.4	83.3	62.5	51.3	43.3	32.1	33.2	35.7	25.0	23.4	49.2	102.5
Above Normal (16%)	181.7	158.1	116.3	85.4	48.6	30.3	47.6	53.3	27.1	25.4	56.7	89.2
Below Normal (13%)	93.6	88.2	104.3	102.9	56.5	34.7	58.5	67.1	32.7	42.7	85.8	183.6
Dry (24%)	136.5	132.9	142.6	140.4	66.0	39.9	67.7	75.5	35.1	71.5	137.0	179.0
Critical (15%)	202.7	206.9	215.7	173.2	99.8	62.1	84.6	86.9	60.3	94.2	159.2	210.4

Alternative 5 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	10.1	-1.5	-1.3	13.3	0.3	-0.1	19.8	28.7	9.3	3.9	4.0	1.3
20%	0.7	12.5	-6.4	3.1	0.2	0.3	16.6	30.5	9.2	9.2	8.4	0.7
30%	2.9	3.5	1.2	1.1	1.6	-0.4	17.6	27.6	4.9	2.5	4.6	6.7
40%	6.7	-2.2	14.5	0.5	0.2	0.1	15.7	21.0	2.0	1.5	2.4	3.9
50%	-3.8	2.9	-5.2	0.7	-0.2	0.0	11.9	17.4	1.5	-0.4	0.5	3.6
60%	0.3	-0.3	-0.4	-0.7	0.3	0.0	6.3	12.1	0.9	0.0	-1.7	-0.1
70%	-0.2	-0.1	0.5	-2.3	0.0	0.0	5.8	11.7	0.7	0.1	1.0	-0.1
80%	0.1	-0.1	0.0	0.0	0.0	0.0	4.0	13.7	1.2	0.3	-0.8	1.2
90%	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.0	-0.1	0.0	-1.4
Long Term												
Full Simulation Period[b]	1.3	0.4	-0.1	0.9	1.1	0.4	11.5	17.4	2.7	0.9	2.5	2.3
Water Year Types[c]												
Wet (32%)	0.3	2.8	1.8	0.0	0.5	0.2	0.2	1.3	0.3	0.0	0.0	-0.9
Above Normal (16%)	4.4	-1.8	-2.7	-0.6	0.1	0.0	1.3	4.0	0.9	0.2	-0.4	-0.4
Below Normal (13%)	-0.3	1.0	-0.2	-0.2	-0.3	-0.2	8.2	15.9	3.5	1.3	0.3	2.6
Dry (24%)	1.7	-1.3	-0.5	3.3	0.9	0.2	23.5	35.7	6.9	5.5	9.0	6.5
Critical (15%)	0.7	-0.2	-0.3	1.5	4.9	2.2	30.3	37.5	2.3	-4.1	2.5	4.9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.19.4. Old River at Rock Slough, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	257.7	275.2	280.8	231.3	145.5	59.5	40.3	37.7	39.9	86.2	150.0	209.0
20%	236.7	236.6	245.5	201.4	99.0	48.8	33.3	31.4	31.1	50.6	113.7	195.6
30%	224.6	215.3	239.7	181.6	69.6	42.7	30.3	27.9	28.1	45.9	101.2	185.5
40%	218.2	199.1	229.5	165.4	56.6	31.1	27.0	26.4	26.3	37.9	91.5	173.3
50%	210.2	191.5	197.8	120.7	47.0	28.8	25.7	25.2	24.2	29.3	74.3	169.4
60%	204.9	184.6	178.5	86.1	37.0	26.5	25.0	24.5	23.1	26.1	65.1	164.3
70%	196.0	173.4	148.4	42.8	33.1	24.4	24.2	23.4	22.1	24.9	51.0	161.2
80%	187.2	140.7	98.8	33.8	29.6	23.1	23.0	22.5	21.5	23.1	45.0	145.0
90%	164.1	90.2	31.6	27.4	23.4	21.0	21.8	20.7	20.7	22.2	38.8	123.3
Long Term												
Full Simulation Period[b]	205.5	188.4	183.9	124.6	65.1	36.6	30.0	28.0	30.1	44.3	83.9	168.1
Water Year Types[c]												
Wet (32%)	182.9	169.9	126.1	53.6	37.4	32.4	27.8	22.4	23.0	23.2	44.5	134.4
Above Normal (16%)	228.2	193.7	177.4	115.3	46.0	27.6	25.7	23.4	22.0	24.8	56.0	169.5
Below Normal (13%)	186.4	164.8	187.7	154.4	94.3	38.7	29.6	26.9	24.2	40.9	85.3	170.7
Dry (24%)	211.0	195.1	219.0	163.6	77.1	34.0	27.9	29.1	27.9	53.2	110.8	181.9
Critical (15%)	238.4	233.2	254.5	196.0	99.3	58.1	43.2	44.0	62.9	99.0	153.2	213.8

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	255.2	275.8	258.9	201.0	95.1	61.2	63.0	58.8	40.3	89.3	155.8	207.5
20%	233.0	212.0	226.9	165.4	84.7	47.7	54.8	52.8	31.5	58.8	135.7	191.7
30%	213.2	183.6	190.0	126.9	65.6	40.1	47.8	49.9	28.9	50.0	111.1	178.8
40%	196.7	168.5	120.7	104.2	59.5	36.1	44.8	46.3	28.1	44.7	91.2	164.3
50%	181.9	124.1	72.5	86.8	49.9	32.7	41.2	43.9	27.1	30.2	78.6	140.9
60%	32.8	37.2	50.1	72.7	43.2	29.4	39.9	41.1	26.4	26.1	66.1	123.3
70%	30.3	24.7	38.6	50.8	34.7	27.0	35.7	36.9	25.3	24.8	55.2	114.5
80%	29.1	23.0	28.6	39.1	31.5	24.2	30.5	29.7	23.9	23.4	50.0	96.0
90%	27.7	21.8	24.2	30.8	27.8	23.3	26.3	20.0	22.9	21.9	42.0	85.7
Long Term												
Full Simulation Period[b]	133.3	125.6	118.7	102.3	58.7	38.1	43.3	42.5	31.2	47.5	90.2	143.4
Water Year Types[c]												
Wet (32%)	95.1	80.5	60.7	51.3	42.8	31.9	33.0	34.4	24.6	23.4	49.2	103.3
Above Normal (16%)	177.3	159.9	119.0	86.0	48.5	30.3	46.3	49.3	26.2	25.3	57.1	89.6
Below Normal (13%)	93.9	87.2	104.5	103.1	56.8	34.9	50.3	51.2	29.1	41.4	85.5	181.0
Dry (24%)	134.8	134.2	143.2	137.1	65.1	39.7	44.2	39.8	28.3	66.0	127.9	172.5
Critical (15%)	202.0	207.0	215.9	171.7	94.8	59.9	54.2	49.3	58.0	98.4	156.7	205.6

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-2.6	0.6	-21.9	-30.3	-50.4	1.7	22.7	21.1	0.4	3.1	5.8	-1.6
20%	-3.7	-24.5	-18.6	-36.1	-14.3	-1.1	21.5	21.4	0.4	8.2	21.9	-3.9
30%	-11.3	-31.7	-49.7	-54.7	-3.9	-2.5	17.4	21.9	0.8	4.1	9.8	-6.8
40%	-21.6	-30.7	-108.8	-61.1	2.9	4.9	17.8	19.9	1.8	6.8	-0.3	-9.0
50%	-28.3	-67.4	-125.3	-33.9	2.9	3.8	15.5	18.7	2.9	0.9	4.3	-28.5
60%	-172.2	-147.4	-128.5	-13.5	6.2	2.8	14.9	16.6	3.3	0.1	1.0	-41.0
70%	-165.7	-148.7	-109.8	8.0	1.5	2.6	11.6	13.5	3.2	-0.1	4.2	-46.6
80%	-158.1	-117.7	-70.2	5.2	1.9	1.2	7.4	7.2	2.3	0.2	5.0	-49.0
90%	-136.4	-68.4	-7.5	3.4	4.4	2.3	4.5	-0.7	2.2	-0.3	3.1	-37.6
Long Term												
Full Simulation Period[b]	-72.2	-62.8	-65.3	-22.3	-6.5	1.4	13.3	14.6	1.2	3.2	6.4	-24.7
Water Year Types[c]												
Wet (32%)	-87.8	-89.3	-65.4	-2.2	5.4	-0.5	5.2	12.0	1.6	0.1	4.7	-31.1
Above Normal (16%)	-50.8	-33.8	-58.4	-29.4	2.6	2.7	20.6	25.9	4.2	0.4	1.0	-79.9
Below Normal (13%)	-92.5	-77.6	-83.2	-51.3	-37.5	-3.8	20.7	24.3	4.9	0.5	0.1	10.3
Dry (24%)	-76.2	-60.9	-75.8	-26.5	-12.0	5.7	16.3	10.6	0.3	12.7	17.2	-9.5
Critical (15%)	-36.4	-26.2	-38.6	-24.3	-4.4	1.8	11.0	5.4	-4.9	-0.6	3.6	-8.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.19.5. Old River at Rock Slough, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	257.7	275.2	280.8	231.3	145.5	59.5	40.3	37.7	39.9	86.2	150.0	209.0
20%	236.7	236.6	245.5	201.4	99.0	48.8	33.3	31.4	31.1	50.6	113.7	195.6
30%	224.6	215.3	239.7	181.6	69.6	42.7	30.3	27.9	28.1	45.9	101.2	185.5
40%	218.2	199.1	229.5	165.4	56.6	31.1	27.0	26.4	26.3	37.9	91.5	173.3
50%	210.2	191.5	197.8	120.7	47.0	28.8	25.7	25.2	24.2	29.3	74.3	169.4
60%	204.9	184.6	178.5	86.1	37.0	26.5	25.0	24.5	23.1	26.1	65.1	164.3
70%	196.0	173.4	148.4	42.8	33.1	24.4	24.2	23.4	22.1	24.9	51.0	161.2
80%	187.2	140.7	98.8	33.8	29.6	23.1	23.0	22.5	21.5	23.1	45.0	145.0
90%	164.1	90.2	31.6	27.4	23.4	21.0	21.8	20.7	20.7	22.2	38.8	123.3
Long Term												
Full Simulation Period[b]	205.5	188.4	183.9	124.6	65.1	36.6	30.0	28.0	30.1	44.3	83.9	168.1
Water Year Types[c]												
Wet (32%)	182.9	169.9	126.1	53.6	37.4	32.4	27.8	22.4	23.0	23.2	44.5	134.4
Above Normal (16%)	228.2	193.7	177.4	115.3	46.0	27.6	25.7	23.4	22.0	24.8	56.0	169.5
Below Normal (13%)	186.4	164.8	187.7	154.4	94.3	38.7	29.6	26.9	24.2	40.9	85.3	170.7
Dry (24%)	211.0	195.1	219.0	163.6	77.1	34.0	27.9	29.1	27.9	53.2	110.8	181.9
Critical (15%)	238.4	233.2	254.5	196.0	99.3	58.1	43.2	44.0	62.9	99.0	153.2	213.8

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	256.5	270.6	280.0	204.8	94.0	52.7	48.3	39.4	36.8	106.4	158.9	217.0
20%	237.6	237.7	251.2	184.1	77.5	45.1	38.7	32.4	29.4	59.2	131.4	194.0
30%	227.5	215.5	235.5	167.5	65.3	38.5	33.6	27.1	26.5	53.9	102.4	184.5
40%	219.4	197.8	225.3	143.0	56.8	33.5	29.8	25.3	24.7	43.1	95.3	179.6
50%	208.4	190.1	195.7	121.4	45.5	30.5	27.7	23.8	22.7	29.9	81.8	172.0
60%	200.5	183.0	176.3	82.0	39.9	27.5	25.2	23.0	22.0	26.7	64.1	164.6
70%	191.0	175.1	142.8	46.7	35.5	25.5	24.3	22.0	21.0	25.0	52.1	159.2
80%	185.4	158.7	95.0	39.6	29.1	23.5	23.5	21.1	20.2	23.9	43.4	144.5
90%	169.1	105.3	35.0	28.3	24.8	21.9	22.0	19.3	19.2	22.7	36.3	126.7
Long Term												
Full Simulation Period[b]	205.6	192.5	180.7	114.9	55.8	36.0	31.7	27.4	28.6	48.5	87.1	168.2
Water Year Types[c]												
Wet (32%)	180.9	173.5	126.0	58.3	39.2	30.3	26.4	21.0	21.1	23.6	43.3	129.5
Above Normal (16%)	234.8	204.3	175.4	109.7	44.4	27.4	26.4	22.5	21.1	25.7	56.0	171.2
Below Normal (13%)	187.4	161.4	188.8	137.3	60.7	32.7	31.5	27.8	24.7	48.0	91.4	185.5
Dry (24%)	208.6	202.1	218.7	150.0	62.1	37.3	32.7	28.1	26.4	65.0	121.1	179.5
Critical (15%)	239.1	233.0	234.4	163.8	89.3	58.7	47.6	45.1	60.4	100.2	155.5	213.9

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1.2	-4.6	-0.8	-26.5	-51.5	-6.7	8.0	1.7	-3.2	20.2	8.9	8.0
20%	0.9	1.1	5.8	-17.4	-21.5	-3.7	5.4	1.0	-1.6	8.5	17.7	-1.6
30%	2.9	0.2	-4.2	-14.1	-4.2	-4.2	3.2	-0.9	-1.6	8.0	1.2	-1.0
40%	1.1	-1.3	-4.1	-22.4	0.2	2.4	2.8	-1.1	-1.6	5.2	3.7	6.2
50%	-1.8	-1.4	-2.2	0.6	-1.6	1.7	2.1	-1.3	-1.5	0.6	7.5	2.6
60%	-4.5	-1.6	-2.3	-4.1	2.9	1.0	0.2	-1.5	-1.1	0.7	-1.0	0.3
70%	-5.0	1.7	-5.6	4.0	2.4	1.0	0.1	-1.3	-1.1	0.2	1.0	-1.9
80%	-1.8	18.0	-3.8	5.8	-0.5	0.4	0.4	-1.4	-1.3	0.8	-1.7	-0.4
90%	5.0	15.1	3.4	0.9	1.4	0.9	0.2	-1.4	-1.5	0.5	-2.5	3.4
Long Term												
Full Simulation Period[b]	0.1	4.1	-3.2	-9.7	-9.3	-0.6	1.7	-0.5	-1.4	4.2	3.3	0.1
Water Year Types[c]												
Wet (32%)	-2.0	3.7	-0.1	4.8	1.8	-2.1	-1.4	-1.4	-1.9	0.3	-1.3	-5.0
Above Normal (16%)	6.6	10.6	-2.1	-5.7	-1.6	-0.2	0.7	-0.9	-0.9	0.9	-0.1	1.7
Below Normal (13%)	1.0	-3.4	1.1	-17.0	-33.6	-6.0	1.9	0.9	0.5	7.1	6.1	14.8
Dry (24%)	-2.4	7.0	-0.3	-13.7	-15.0	3.3	4.8	-1.0	-1.6	11.7	10.3	-2.5
Critical (15%)	0.7	-0.2	-20.1	-32.2	-10.0	0.5	4.4	1.1	-2.5	1.2	2.3	0.1

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.19.6. Old River at Rock Slough, Monthly Chloride Concentration

Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	257.7	275.2	280.8	231.3	145.5	59.5	40.3	37.7	39.9	86.2	150.0	209.0
20%	236.7	236.6	245.5	201.4	99.0	48.8	33.3	31.4	31.1	50.6	113.7	195.6
30%	224.6	215.3	239.7	181.6	69.6	42.7	30.3	27.9	28.1	45.9	101.2	185.5
40%	218.2	199.1	229.5	165.4	56.6	31.1	27.0	26.4	26.3	37.9	91.5	173.3
50%	210.2	191.5	197.8	120.7	47.0	28.8	25.7	25.2	24.2	29.3	74.3	169.4
60%	204.9	184.6	178.5	86.1	37.0	26.5	25.0	24.5	23.1	26.1	65.1	164.3
70%	196.0	173.4	148.4	42.8	33.1	24.4	24.2	23.4	22.1	24.9	51.0	161.2
80%	187.2	140.7	98.8	33.8	29.6	23.1	23.0	22.5	21.5	23.1	45.0	145.0
90%	164.1	90.2	31.6	27.4	23.4	21.0	21.8	20.7	20.7	22.2	38.8	123.3
Long Term												
Full Simulation Period[b]	205.5	188.4	183.9	124.6	65.1	36.6	30.0	28.0	30.1	44.3	83.9	168.1
Water Year Types[c]												
Wet (32%)	182.9	169.9	126.1	53.6	37.4	32.4	27.8	22.4	23.0	23.2	44.5	134.4
Above Normal (16%)	228.2	193.7	177.4	115.3	46.0	27.6	25.7	23.4	22.0	24.8	56.0	169.5
Below Normal (13%)	186.4	164.8	187.7	154.4	94.3	38.7	29.6	26.9	24.2	40.9	85.3	170.7
Dry (24%)	211.0	195.1	219.0	163.6	77.1	34.0	27.9	29.1	27.9	53.2	110.8	181.9
Critical (15%)	238.4	233.2	254.5	196.0	99.3	58.1	43.2	44.0	62.9	99.0	153.2	213.8

Alternative 5

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	265.2	274.3	257.6	214.2	95.4	61.1	82.8	87.5	49.7	93.2	159.7	208.8
20%	233.8	224.5	220.5	168.4	84.8	48.0	71.4	83.3	40.6	68.0	144.1	192.4
30%	216.1	187.1	191.2	127.9	67.2	39.7	65.3	77.5	33.7	52.5	115.6	185.5
40%	203.4	166.2	135.2	104.7	59.6	36.2	60.5	67.3	30.2	46.1	93.6	168.2
50%	178.1	127.0	67.3	87.5	49.7	32.7	53.1	61.3	28.6	29.9	79.1	144.5
60%	33.0	36.8	49.6	72.0	43.5	29.3	46.2	53.2	27.3	26.1	64.4	123.2
70%	30.2	24.5	39.1	48.5	34.6	27.0	41.5	48.6	26.0	24.9	56.2	114.4
80%	29.2	23.0	28.5	39.1	31.5	24.2	34.5	43.3	25.1	23.6	49.2	97.2
90%	28.1	21.8	24.2	30.8	27.8	23.3	26.6	20.0	23.8	21.8	41.9	84.4
Long Term												
Full Simulation Period[b]	134.6	126.0	118.6	103.2	59.7	38.4	54.8	59.9	34.0	48.4	92.8	145.7
Water Year Types[c]												
Wet (32%)	95.4	83.3	62.5	51.3	43.3	32.1	33.2	35.7	25.0	23.4	49.2	102.5
Above Normal (16%)	181.7	158.1	116.3	85.4	48.6	30.3	47.6	53.3	27.1	25.4	56.7	89.2
Below Normal (13%)	93.6	88.2	104.3	102.9	56.5	34.7	58.5	67.1	32.7	42.7	85.8	183.6
Dry (24%)	136.5	132.9	142.6	140.4	66.0	39.9	67.7	75.5	35.1	71.5	137.0	179.0
Critical (15%)	202.7	206.9	215.7	173.2	99.8	62.1	84.6	86.9	60.3	94.2	159.2	210.4

Alternative 5 minus Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	7.5	-0.9	-23.2	-17.1	-50.1	1.6	42.5	49.8	9.7	7.0	9.8	-0.3
20%	-2.9	-12.1	-25.0	-33.0	-14.2	-0.8	38.2	52.0	9.6	17.4	30.3	-3.2
30%	-8.5	-28.2	-48.5	-53.7	-2.4	-2.9	35.0	49.6	5.6	6.6	14.4	0.0
40%	-14.9	-32.9	-94.3	-60.6	3.0	5.0	33.5	40.9	3.9	8.3	2.1	-5.1
50%	-32.1	-64.5	-130.5	-33.2	2.6	3.8	27.5	36.1	4.4	0.6	4.8	-25.0
60%	-171.9	-147.8	-128.9	-14.2	6.5	2.8	21.2	28.8	4.2	0.1	-0.7	-41.1
70%	-165.8	-148.9	-109.3	5.7	1.5	2.6	17.3	25.2	3.9	0.0	5.1	-46.8
80%	-158.0	-117.7	-70.2	5.2	1.9	1.2	11.4	20.8	3.5	0.5	4.2	-47.8
90%	-136.0	-68.4	-7.4	3.4	4.4	2.3	4.8	-0.7	3.2	-0.4	3.1	-39.0
Long Term												
Full Simulation Period[b]	-71.0	-62.4	-65.4	-21.3	-5.4	1.8	24.8	31.9	3.9	4.1	8.9	-22.4
Water Year Types[c]												
Wet (32%)	-87.5	-86.5	-63.6	-2.2	5.9	-0.4	5.4	13.3	2.0	0.1	4.6	-32.0
Above Normal (16%)	-46.4	-35.6	-61.1	-29.9	2.6	2.7	21.9	30.0	5.0	0.6	0.6	-80.4
Below Normal (13%)	-92.8	-76.6	-83.4	-51.5	-37.8	-4.0	28.9	40.1	8.4	1.8	0.4	12.9
Dry (24%)	-74.5	-62.2	-76.4	-23.2	-11.1	5.9	39.8	46.3	7.2	18.3	26.2	-3.0
Critical (15%)	-35.7	-26.3	-38.8	-22.8	0.5	3.9	41.4	42.9	-2.7	-4.8	6.1	-3.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.20. Contra Costa Water District Old River Intake Chloride Concentration

Table 6E.B.20.1. Contra Costa Water District Old River Intake, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	205.4	227.2	231.3	199.2	122.5	99.6	98.5	86.0	66.3	73.7	130.0	166.2
20%	190.2	178.6	194.1	168.6	108.0	78.6	81.3	78.1	53.6	55.0	110.4	155.8
30%	175.1	155.7	163.5	140.2	94.4	70.5	70.9	74.2	44.9	46.6	91.4	141.4
40%	164.9	143.7	126.2	112.9	82.4	60.4	64.7	66.3	42.1	42.5	74.7	130.4
50%	153.1	116.5	73.0	103.8	77.1	54.0	55.0	61.9	39.0	32.5	66.2	115.3
60%	45.9	44.0	54.4	88.4	70.2	49.2	42.3	57.0	38.4	29.6	54.2	108.1
70%	42.1	33.8	39.7	78.0	55.0	44.4	38.2	51.6	36.5	28.5	46.1	99.0
80%	39.5	29.1	32.9	59.8	51.0	38.7	29.8	37.9	32.0	27.6	42.4	85.0
90%	35.8	27.8	29.9	49.6	40.9	29.8	22.0	17.7	27.9	26.7	36.4	79.4
Long Term												
Full Simulation Period[b]	115.6	109.6	108.3	112.5	82.1	61.7	57.1	59.1	43.9	44.9	74.4	119.4
Water Year Types[c]												
Wet (32%)	88.7	75.5	63.8	72.3	57.0	42.4	28.9	36.5	32.7	28.0	42.4	92.5
Above Normal (16%)	147.3	137.1	112.7	104.5	76.5	49.3	47.6	58.0	37.9	28.2	46.7	81.2
Below Normal (13%)	88.7	79.3	94.4	109.0	84.5	61.1	66.2	74.2	46.3	39.1	70.3	145.9
Dry (24%)	115.3	116.7	126.0	138.6	92.1	70.9	71.7	66.1	44.0	56.3	106.1	139.9
Critical (15%)	164.6	170.0	183.4	168.2	123.8	101.9	95.5	83.5	72.3	85.9	124.9	160.8

Alternative 1

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	206.8	225.9	237.8	210.5	145.7	90.8	66.0	60.1	63.3	71.7	119.6	165.3
20%	194.0	193.4	209.4	189.8	115.4	71.4	57.5	53.7	49.5	48.4	91.4	157.9
30%	186.6	179.1	201.8	170.3	89.6	59.6	45.4	46.3	37.7	43.6	83.3	148.6
40%	181.0	166.8	188.0	159.2	70.2	49.1	40.7	36.3	34.2	37.3	75.2	139.7
50%	175.0	159.0	171.0	136.8	63.0	44.6	35.9	32.2	30.5	32.9	62.1	134.8
60%	171.1	154.3	154.1	92.9	54.9	40.2	31.9	30.4	28.9	29.5	52.5	130.9
70%	161.9	147.0	137.5	60.0	51.4	33.7	30.0	29.1	27.8	27.7	43.5	128.0
80%	156.7	127.3	89.9	49.2	39.9	29.6	29.0	28.5	26.8	27.0	39.8	115.0
90%	138.4	88.9	41.6	38.3	30.8	27.4	24.3	26.5	25.4	26.1	35.5	101.1
Long Term												
Full Simulation Period[b]	169.3	158.1	159.5	125.0	77.3	52.1	42.9	39.7	38.0	42.6	69.4	134.4
Water Year Types[c]												
Wet (32%)	152.1	142.6	116.9	66.3	47.6	40.8	29.4	26.3	28.8	27.9	39.7	108.7
Above Normal (16%)	186.0	163.7	155.2	120.5	62.2	40.7	34.2	30.1	28.6	27.4	46.7	136.3
Below Normal (13%)	155.7	139.5	159.8	145.1	104.3	56.7	44.8	38.8	29.7	37.2	71.0	136.8
Dry (24%)	173.9	163.5	185.2	156.6	88.9	51.0	46.3	46.6	39.9	47.8	90.6	145.8
Critical (15%)	193.6	193.3	213.1	186.2	114.0	86.8	74.3	68.6	72.9	87.1	121.8	166.8

Alternative 1 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1.4	-1.3	6.5	11.2	23.2	-8.9	-32.5	-25.9	-3.0	-2.0	-10.4	-0.9
20%	3.8	14.7	15.3	21.2	7.4	-7.2	-23.8	-24.4	-4.2	-6.6	-19.0	2.1
30%	11.5	23.3	38.3	30.1	-4.9	-10.9	-25.4	-27.9	-7.2	-3.0	-8.0	7.2
40%	16.0	23.0	61.8	46.3	-12.2	-11.3	-24.0	-30.0	-7.9	-5.3	0.5	9.3
50%	21.8	42.6	98.0	33.0	-14.2	-9.4	-19.2	-29.7	-8.4	0.4	-4.1	19.5
60%	125.1	110.3	99.7	4.4	-15.4	-9.0	-10.4	-26.5	-9.5	-0.2	-1.7	22.8
70%	119.8	113.2	97.8	-18.1	-3.6	-10.8	-8.2	-22.5	-8.7	-0.8	-2.6	29.0
80%	117.2	98.2	57.1	-10.6	-11.1	-9.1	-0.9	-9.3	-5.3	-0.7	-2.5	30.0
90%	102.6	61.1	11.7	-11.3	-10.1	-2.4	2.3	8.8	-2.5	-0.6	-0.9	21.7
Long Term												
Full Simulation Period[b]	53.8	48.4	51.1	12.5	-4.8	-9.5	-14.1	-19.3	-5.9	-2.3	-5.0	15.0
Water Year Types[c]												
Wet (32%)	63.4	67.1	53.1	-6.0	-9.4	-1.7	0.5	-10.2	-4.0	-0.2	-2.8	16.2
Above Normal (16%)	38.7	26.6	42.5	16.0	-14.3	-8.6	-13.4	-27.9	-9.3	-0.8	0.0	55.1
Below Normal (13%)	67.0	60.2	65.4	36.1	19.7	-4.4	-21.5	-35.4	-16.6	-1.9	0.7	-9.1
Dry (24%)	58.6	46.8	59.2	18.0	-3.2	-19.8	-25.4	-19.5	-4.1	-8.4	-15.5	5.9
Critical (15%)	29.0	23.3	29.7	18.0	-9.8	-15.1	-21.2	-14.9	0.6	1.2	-3.1	6.0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.20.2. Contra Costa Water District Old River Intake, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	205.4	227.2	231.3	199.2	122.5	99.6	98.5	86.0	66.3	73.7	130.0	166.2
20%	190.2	178.6	194.1	168.6	108.0	78.6	81.3	78.1	53.6	55.0	110.4	155.8
30%	175.1	155.7	163.5	140.2	94.4	70.5	70.9	74.2	44.9	46.6	91.4	141.4
40%	164.9	143.7	126.2	112.9	82.4	60.4	64.7	66.3	42.1	42.5	74.7	130.4
50%	153.1	116.5	73.0	103.8	77.1	54.0	55.0	61.9	39.0	32.5	66.2	115.3
60%	45.9	44.0	54.4	88.4	70.2	49.2	42.3	57.0	38.4	29.6	54.2	108.1
70%	42.1	33.8	39.7	78.0	55.0	44.4	38.2	51.6	36.5	28.5	46.1	99.0
80%	39.5	29.1	32.9	59.8	51.0	38.7	29.8	37.9	32.0	27.6	42.4	85.0
90%	35.8	27.8	29.9	49.6	40.9	29.8	22.0	17.7	27.9	26.7	36.4	79.4
Long Term												
Full Simulation Period[b]	115.6	109.6	108.3	112.5	82.1	61.7	57.1	59.1	43.9	44.9	74.4	119.4
Water Year Types[c]												
Wet (32%)	88.7	75.5	63.8	72.3	57.0	42.4	28.9	36.5	32.7	28.0	42.4	92.5
Above Normal (16%)	147.3	137.1	112.7	104.5	76.5	49.3	47.6	58.0	37.9	28.2	46.7	81.2
Below Normal (13%)	88.7	79.3	94.4	109.0	84.5	61.1	66.2	74.2	46.3	39.1	70.3	145.9
Dry (24%)	115.3	116.7	126.0	138.6	92.1	70.9	71.7	66.1	44.0	56.3	106.1	139.9
Critical (15%)	164.6	170.0	183.4	168.2	123.8	101.9	95.5	83.5	72.3	85.9	124.9	160.8

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	207.2	221.7	232.4	198.0	123.0	95.6	85.7	74.1	59.7	85.0	130.1	172.6
20%	195.8	196.1	212.7	183.9	107.2	74.7	68.6	57.0	39.3	52.5	104.8	157.7
30%	183.9	178.1	196.5	159.5	94.4	65.2	60.3	43.0	34.7	48.5	83.2	148.1
40%	179.8	163.8	185.8	148.3	84.8	58.9	52.6	37.0	30.9	41.2	77.0	142.8
50%	173.5	158.4	169.9	137.7	73.4	51.2	41.2	31.4	28.6	32.9	66.9	137.5
60%	166.2	153.5	157.6	95.6	64.6	44.1	35.5	29.5	27.2	29.5	53.1	131.5
70%	161.8	149.3	138.7	71.9	55.0	37.1	32.4	27.9	26.1	28.3	44.3	127.6
80%	155.2	134.0	92.9	62.6	46.3	32.2	30.1	26.7	25.5	27.2	39.3	114.2
90%	138.2	101.6	43.0	40.3	35.1	27.4	27.4	24.7	24.2	26.1	32.7	99.6
Long Term												
Full Simulation Period[b]	168.8	161.0	158.3	124.4	77.7	57.4	50.0	41.1	35.0	45.2	72.2	134.8
Water Year Types[c]												
Wet (32%)	150.4	145.3	118.1	76.2	51.6	38.7	30.5	25.2	26.0	28.0	38.9	104.8
Above Normal (16%)	190.3	171.9	156.5	127.5	70.8	42.9	34.2	29.3	26.9	27.9	46.4	137.9
Below Normal (13%)	155.8	137.0	160.5	141.4	88.2	55.8	52.7	43.4	31.7	42.9	75.3	150.5
Dry (24%)	171.0	168.5	186.2	153.4	88.7	67.0	61.0	46.9	33.9	55.4	99.9	144.4
Critical (15%)	193.4	192.9	198.6	161.5	113.6	98.8	88.4	76.3	68.4	86.3	123.6	166.5

Alternative 3 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1.8	-5.5	1.1	-1.2	0.5	-4.0	-12.8	-11.9	-6.6	11.3	0.2	6.3
20%	5.6	17.5	18.6	15.3	-0.8	-3.9	-12.6	-21.1	-14.3	-2.5	-5.6	2.0
30%	8.8	22.4	32.9	19.3	-0.1	-5.3	-10.6	-31.2	-10.2	1.9	-8.2	6.6
40%	14.8	20.0	59.5	35.4	2.4	-1.6	-12.1	-29.4	-11.2	-1.3	2.3	12.4
50%	20.4	42.0	96.9	33.9	-3.8	-2.8	-13.8	-30.5	-10.4	0.4	0.8	22.2
60%	120.2	109.4	103.1	7.2	-5.6	-5.1	-6.8	-27.4	-11.2	-0.1	-1.1	23.4
70%	119.7	115.5	99.0	-6.1	0.0	-7.4	-5.8	-23.7	-10.4	-0.2	-1.8	28.6
80%	115.7	104.9	60.0	2.8	-4.7	-6.5	0.3	-11.2	-6.5	-0.4	-3.1	29.2
90%	102.4	73.8	13.0	-9.3	-5.8	-2.4	5.4	7.0	-3.7	-0.6	-3.7	20.3
Long Term												
Full Simulation Period[b]	53.2	51.4	49.9	11.8	-4.4	-4.3	-7.1	-18.0	-8.9	0.3	-2.2	15.4
Water Year Types[c]												
Wet (32%)	61.7	69.8	54.2	3.9	-5.3	-3.7	1.5	-11.3	-6.8	-0.1	-3.5	12.3
Above Normal (16%)	43.0	34.7	43.8	23.0	-5.7	-6.4	-13.4	-28.6	-11.0	-0.3	-0.3	56.7
Below Normal (13%)	67.0	57.7	66.1	32.4	3.6	-5.3	-13.6	-30.8	-14.6	3.8	5.0	4.5
Dry (24%)	55.7	51.8	60.3	14.7	-3.4	-3.9	-10.7	-19.2	-10.0	-0.8	-6.1	4.5
Critical (15%)	28.8	23.0	15.2	-6.8	-10.1	-3.1	-7.1	-7.2	-3.9	0.4	-1.3	5.7

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.20.3. Contra Costa Water District Old River Intake, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	205.4	227.2	231.3	199.2	122.5	99.6	98.5	86.0	66.3	73.7	130.0	166.2
20%	190.2	178.6	194.1	168.6	108.0	78.6	81.3	78.1	53.6	55.0	110.4	155.8
30%	175.1	155.7	163.5	140.2	94.4	70.5	70.9	74.2	44.9	46.6	91.4	141.4
40%	164.9	143.7	126.2	112.9	82.4	60.4	64.7	66.3	42.1	42.5	74.7	130.4
50%	153.1	116.5	73.0	103.8	77.1	54.0	55.0	61.9	39.0	32.5	66.2	115.3
60%	45.9	44.0	54.4	88.4	70.2	49.2	42.3	57.0	38.4	29.6	54.2	108.1
70%	42.1	33.8	39.7	78.0	55.0	44.4	38.2	51.6	36.5	28.5	46.1	99.0
80%	39.5	29.1	32.9	59.8	51.0	38.7	29.8	37.9	32.0	27.6	42.4	85.0
90%	35.8	27.8	29.9	49.6	40.9	29.8	22.0	17.7	27.9	26.7	36.4	79.4
Long Term												
Full Simulation Period[b]	115.6	109.6	108.3	112.5	82.1	61.7	57.1	59.1	43.9	44.9	74.4	119.4
Water Year Types[c]												
Wet (32%)	88.7	75.5	63.8	72.3	57.0	42.4	28.9	36.5	32.7	28.0	42.4	92.5
Above Normal (16%)	147.3	137.1	112.7	104.5	76.5	49.3	47.6	58.0	37.9	28.2	46.7	81.2
Below Normal (13%)	88.7	79.3	94.4	109.0	84.5	61.1	66.2	74.2	46.3	39.1	70.3	145.9
Dry (24%)	115.3	116.7	126.0	138.6	92.1	70.9	71.7	66.1	44.0	56.3	106.1	139.9
Critical (15%)	164.6	170.0	183.4	168.2	123.8	101.9	95.5	83.5	72.3	85.9	124.9	160.8

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	210.0	226.3	228.4	200.6	122.6	98.9	108.2	104.6	85.3	77.2	129.8	167.4
20%	193.1	185.6	190.2	172.6	108.2	79.3	98.2	101.8	61.6	57.1	117.5	157.9
30%	178.2	159.2	163.7	142.1	91.4	70.6	81.0	89.0	55.6	49.7	97.3	145.5
40%	168.4	141.4	129.0	112.8	82.6	59.8	66.0	74.9	47.5	44.0	75.9	136.9
50%	152.0	119.5	71.5	103.8	77.1	53.9	56.9	62.1	42.9	32.7	66.4	117.5
60%	46.8	43.5	57.4	88.1	70.5	49.4	42.2	54.3	39.2	29.6	53.2	109.4
70%	42.2	32.2	39.4	78.0	58.8	44.4	38.3	51.2	37.9	28.7	46.7	101.3
80%	39.3	29.3	32.9	59.8	50.6	38.7	29.2	37.9	34.6	27.5	42.7	87.3
90%	35.7	27.9	29.9	49.7	40.6	29.9	22.2	17.7	27.9	26.8	35.3	76.2
Long Term												
Full Simulation Period[b]	116.8	110.1	108.4	113.1	82.8	62.0	61.6	66.1	49.8	45.8	76.7	121.3
Water Year Types[c]												
Wet (32%)	89.1	77.4	66.0	72.4	57.6	42.4	29.0	34.7	33.1	28.1	42.4	91.9
Above Normal (16%)	151.2	136.7	110.4	103.8	76.5	49.3	46.8	54.4	39.3	28.3	46.5	80.8
Below Normal (13%)	88.5	80.0	94.4	108.8	83.9	60.7	63.3	73.8	51.9	40.2	70.6	148.1
Dry (24%)	116.8	116.0	125.2	141.3	93.0	71.1	82.3	86.7	55.9	60.5	113.7	145.3
Critical (15%)	165.5	170.0	183.2	168.2	125.8	103.9	112.0	105.7	85.3	83.4	127.5	164.2

Alternative 5 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4.7	-0.9	-3.0	1.3	0.1	-0.7	9.6	18.6	19.0	3.5	-0.2	1.1
20%	2.9	7.0	-3.9	4.1	0.2	0.7	17.0	23.7	8.0	2.1	7.1	2.1
30%	3.2	3.5	0.1	1.8	-3.0	0.1	10.2	14.8	10.6	3.1	5.9	4.1
40%	3.5	-2.4	2.7	0.0	0.3	-0.7	1.3	8.6	5.4	1.5	1.2	6.5
50%	-1.1	3.0	-1.4	0.0	-0.1	0.0	1.9	0.2	3.9	0.2	0.2	2.2
60%	0.9	-0.5	2.9	-0.4	0.3	0.2	-0.2	-2.7	0.8	0.0	-0.9	1.3
70%	0.2	-1.6	-0.3	0.0	3.8	0.0	0.1	-0.4	1.5	0.1	0.6	2.3
80%	-0.1	0.2	0.0	0.1	-0.4	0.0	-0.6	0.0	2.5	-0.1	0.3	2.3
90%	-0.1	0.1	0.0	0.1	-0.2	0.1	0.1	0.0	0.0	0.1	-1.1	-3.2
Long Term												
Full Simulation Period[b]	1.2	0.5	0.1	0.6	0.7	0.3	4.5	7.1	5.9	0.9	2.2	1.9
Water Year Types[c]												
Wet (32%)	0.4	1.9	2.2	0.1	0.7	0.0	0.1	-1.8	0.4	0.0	-0.1	-0.6
Above Normal (16%)	3.9	-0.4	-2.3	-0.7	0.0	0.0	-0.8	-3.5	1.3	0.1	-0.2	-0.3
Below Normal (13%)	-0.2	0.7	-0.1	-0.2	-0.6	-0.4	-2.9	-0.4	5.6	1.1	0.2	2.2
Dry (24%)	1.5	-0.7	-0.8	2.7	1.0	0.2	10.6	20.6	11.9	4.2	7.6	5.4
Critical (15%)	0.9	0.0	-0.2	-0.1	2.0	2.0	16.5	22.2	13.0	-2.4	2.6	3.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.20.4. Contra Costa Water District Old River Intake, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	206.8	225.9	237.8	210.5	145.7	90.8	66.0	60.1	63.3	71.7	119.6	165.3
20%	194.0	193.4	209.4	189.8	115.4	71.4	57.5	53.7	49.5	48.4	91.4	157.9
30%	186.6	179.1	201.8	170.3	89.6	59.6	45.4	46.3	37.7	43.6	83.3	148.6
40%	181.0	166.8	188.0	159.2	70.2	49.1	40.7	36.3	34.2	37.3	75.2	139.7
50%	175.0	159.0	171.0	136.8	63.0	44.6	35.9	32.2	30.5	32.9	62.1	134.8
60%	171.1	154.3	154.1	92.9	54.9	40.2	31.9	30.4	28.9	29.5	52.5	130.9
70%	161.9	147.0	137.5	60.0	51.4	33.7	30.0	29.1	27.8	27.7	43.5	128.0
80%	156.7	127.3	89.9	49.2	39.9	29.6	29.0	28.5	26.8	27.0	39.8	115.0
90%	138.4	88.9	41.6	38.3	30.8	27.4	24.3	26.5	25.4	26.1	35.5	101.1
Long Term												
Full Simulation Period[b]	169.3	158.1	159.5	125.0	77.3	52.1	42.9	39.7	38.0	42.6	69.4	134.4
Water Year Types[c]												
Wet (32%)	152.1	142.6	116.9	66.3	47.6	40.8	29.4	26.3	28.8	27.9	39.7	108.7
Above Normal (16%)	186.0	163.7	155.2	120.5	62.2	40.7	34.2	30.1	28.6	27.4	46.7	136.3
Below Normal (13%)	155.7	139.5	159.8	145.1	104.3	56.7	44.8	38.8	29.7	37.2	71.0	136.8
Dry (24%)	173.9	163.5	185.2	156.6	88.9	51.0	46.3	46.6	39.9	47.8	90.6	145.8
Critical (15%)	193.6	193.3	213.1	186.2	114.0	86.8	74.3	68.6	72.9	87.1	121.8	166.8

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	205.4	227.2	231.3	199.2	122.5	99.6	98.5	86.0	66.3	73.7	130.0	166.2
20%	190.2	178.6	194.1	168.6	108.0	78.6	81.3	78.1	53.6	55.0	110.4	155.8
30%	175.1	155.7	163.5	140.2	94.4	70.5	70.9	74.2	44.9	46.6	91.4	141.4
40%	164.9	143.7	126.2	112.9	82.4	60.4	64.7	66.3	42.1	42.5	74.7	130.4
50%	153.1	116.5	73.0	103.8	77.1	54.0	55.0	61.9	39.0	32.5	66.2	115.3
60%	45.9	44.0	54.4	88.4	70.2	49.2	42.3	57.0	38.4	29.6	54.2	108.1
70%	42.1	33.8	39.7	78.0	55.0	44.4	38.2	51.6	36.5	28.5	46.1	99.0
80%	39.5	29.1	32.9	59.8	51.0	38.7	29.8	37.9	32.0	27.6	42.4	85.0
90%	35.8	27.8	29.9	49.6	40.9	29.8	22.0	17.7	27.9	26.7	36.4	79.4
Long Term												
Full Simulation Period[b]	115.6	109.6	108.3	112.5	82.1	61.7	57.1	59.1	43.9	44.9	74.4	119.4
Water Year Types[c]												
Wet (32%)	88.7	75.5	63.8	72.3	57.0	42.4	28.9	36.5	32.7	28.0	42.4	92.5
Above Normal (16%)	147.3	137.1	112.7	104.5	76.5	49.3	47.6	58.0	37.9	28.2	46.7	81.2
Below Normal (13%)	88.7	79.3	94.4	109.0	84.5	61.1	66.2	74.2	46.3	39.1	70.3	145.9
Dry (24%)	115.3	116.7	126.0	138.6	92.1	70.9	71.7	66.1	44.0	56.3	106.1	139.9
Critical (15%)	164.6	170.0	183.4	168.2	123.8	101.9	95.5	83.5	72.3	85.9	124.9	160.8

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1.4	1.3	-6.5	-11.2	-23.2	8.9	32.5	25.9	3.0	2.0	10.4	0.9
20%	-3.8	-14.7	-15.3	-21.2	-7.4	7.2	23.8	24.4	4.2	6.6	19.0	-2.1
30%	-11.5	-23.3	-38.3	-30.1	4.9	10.9	25.4	27.9	7.2	3.0	8.0	-7.2
40%	-16.0	-23.0	-61.8	-46.3	12.2	11.3	24.0	30.0	7.9	5.3	-0.5	-9.3
50%	-21.8	-42.6	-98.0	-33.0	14.2	9.4	19.2	29.7	8.4	-0.4	4.1	-19.5
60%	-125.1	-110.3	-99.7	-4.4	15.4	9.0	10.4	26.5	9.5	0.2	1.7	-22.8
70%	-119.8	-113.2	-97.8	18.1	3.6	10.8	8.2	22.5	8.7	0.8	2.6	-29.0
80%	-117.2	-98.2	-57.1	10.6	11.1	9.1	0.9	9.3	5.3	0.7	2.5	-30.0
90%	-102.6	-61.1	-11.7	11.3	10.1	2.4	-2.3	-8.8	2.5	0.6	0.9	-21.7
Long Term												
Full Simulation Period[b]	-53.8	-48.4	-51.1	-12.5	4.8	9.5	14.1	19.3	5.9	2.3	5.0	-15.0
Water Year Types[c]												
Wet (32%)	-63.4	-67.1	-53.1	6.0	9.4	1.7	-0.5	10.2	4.0	0.2	2.8	-16.2
Above Normal (16%)	-38.7	-26.6	-42.5	-16.0	14.3	8.6	13.4	27.9	9.3	0.8	0.0	-55.1
Below Normal (13%)	-67.0	-60.2	-65.4	-36.1	-19.7	4.4	21.5	35.4	16.6	1.9	-0.7	9.1
Dry (24%)	-58.6	-46.8	-59.2	-18.0	3.2	19.8	25.4	19.5	4.1	8.4	15.5	-5.9
Critical (15%)	-29.0	-23.3	-29.7	-18.0	9.8	15.1	21.2	14.9	-0.6	-1.2	3.1	-6.0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.20.5. Contra Costa Water District Old River Intake, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	206.8	225.9	237.8	210.5	145.7	90.8	66.0	60.1	63.3	71.7	119.6	165.3
20%	194.0	193.4	209.4	189.8	115.4	71.4	57.5	53.7	49.5	48.4	91.4	157.9
30%	186.6	179.1	201.8	170.3	89.6	59.6	45.4	46.3	37.7	43.6	83.3	148.6
40%	181.0	166.8	188.0	159.2	70.2	49.1	40.7	36.3	34.2	37.3	75.2	139.7
50%	175.0	159.0	171.0	136.8	63.0	44.6	35.9	32.2	30.5	32.9	62.1	134.8
60%	171.1	154.3	154.1	92.9	54.9	40.2	31.9	30.4	28.9	29.5	52.5	130.9
70%	161.9	147.0	137.5	60.0	51.4	33.7	30.0	29.1	27.8	27.7	43.5	128.0
80%	156.7	127.3	89.9	49.2	39.9	29.6	29.0	28.5	26.8	27.0	39.8	115.0
90%	138.4	88.9	41.6	38.3	30.8	27.4	24.3	26.5	25.4	26.1	35.5	101.1
Long Term												
Full Simulation Period[b]	169.3	158.1	159.5	125.0	77.3	52.1	42.9	39.7	38.0	42.6	69.4	134.4
Water Year Types[c]												
Wet (32%)	152.1	142.6	116.9	66.3	47.6	40.8	29.4	26.3	28.8	27.9	39.7	108.7
Above Normal (16%)	186.0	163.7	155.2	120.5	62.2	40.7	34.2	30.1	28.6	27.4	46.7	136.3
Below Normal (13%)	155.7	139.5	159.8	145.1	104.3	56.7	44.8	38.8	29.7	37.2	71.0	136.8
Dry (24%)	173.9	163.5	185.2	156.6	88.9	51.0	46.3	46.6	39.9	47.8	90.6	145.8
Critical (15%)	193.6	193.3	213.1	186.2	114.0	86.8	74.3	68.6	72.9	87.1	121.8	166.8

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	207.2	221.7	232.4	198.0	123.0	95.6	85.7	74.1	59.7	85.0	130.1	172.6
20%	195.8	196.1	212.7	183.9	107.2	74.7	68.6	57.0	39.3	52.5	104.8	157.7
30%	183.9	178.1	196.5	159.5	94.4	65.2	60.3	43.0	34.7	48.5	83.2	148.1
40%	179.8	163.8	185.8	148.3	84.8	58.9	52.6	37.0	30.9	41.2	77.0	142.8
50%	173.5	158.4	169.9	137.7	73.4	51.2	41.2	31.4	28.6	32.9	66.9	137.5
60%	166.2	153.5	157.6	95.6	64.6	44.1	35.5	29.5	27.2	29.5	53.1	131.5
70%	161.8	149.3	138.7	71.9	55.0	37.1	32.4	27.9	26.1	28.3	44.3	127.6
80%	155.2	134.0	92.9	62.6	46.3	32.2	30.1	26.7	25.5	27.2	39.3	114.2
90%	138.2	101.6	43.0	40.3	35.1	27.4	27.4	24.7	24.2	26.1	32.7	99.6
Long Term												
Full Simulation Period[b]	168.8	161.0	158.3	124.4	77.7	57.4	50.0	41.1	35.0	45.2	72.2	134.8
Water Year Types[c]												
Wet (32%)	150.4	145.3	118.1	76.2	51.6	38.7	30.5	25.2	26.0	28.0	38.9	104.8
Above Normal (16%)	190.3	171.9	156.5	127.5	70.8	42.9	34.2	29.3	26.9	27.9	46.4	137.9
Below Normal (13%)	155.8	137.0	160.5	141.4	88.2	55.8	52.7	43.4	31.7	42.9	75.3	150.5
Dry (24%)	171.0	168.5	186.2	153.4	88.7	67.0	61.0	46.9	33.9	55.4	99.9	144.4
Critical (15%)	193.4	192.9	198.6	161.5	113.6	98.8	88.4	76.3	68.4	86.3	123.6	166.5

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.4	-4.2	-5.4	-12.5	-22.6	4.9	19.7	14.0	-3.6	13.4	10.5	7.3
20%	1.8	2.8	3.3	-5.9	-8.2	3.3	11.2	3.3	-10.1	4.0	13.3	-0.1
30%	-2.7	-0.9	-5.4	-10.8	4.8	5.6	14.8	-3.3	-3.0	4.9	-0.2	-0.5
40%	-1.2	-3.0	-2.3	-10.9	14.6	9.8	11.9	0.7	-3.3	3.9	1.7	3.0
50%	-1.5	-0.6	-1.1	0.9	10.4	6.6	5.3	-0.8	-2.0	0.0	4.8	2.7
60%	-4.9	-0.9	3.4	2.7	9.7	3.9	3.6	-0.9	-1.8	0.0	0.6	0.5
70%	-0.1	2.3	1.2	12.0	3.6	3.4	2.4	-1.1	-1.7	0.6	0.8	-0.3
80%	-1.4	6.7	2.9	13.4	6.4	2.6	1.2	-1.8	-1.2	0.3	-0.5	-0.8
90%	-0.2	12.7	1.4	2.0	4.3	0.0	3.1	-1.8	-1.2	0.0	-2.8	-1.4
Long Term												
Full Simulation Period[b]	-0.6	3.0	-1.2	-0.7	0.4	5.2	7.0	1.3	-3.0	2.6	2.8	0.4
Water Year Types[c]												
Wet (32%)	-1.7	2.7	1.2	9.9	4.1	-2.0	1.1	-1.1	-2.8	0.1	-0.8	-3.9
Above Normal (16%)	4.3	8.1	1.3	7.0	8.5	2.2	0.0	-0.7	-1.7	0.5	-0.3	1.6
Below Normal (13%)	0.1	-2.5	0.7	-3.7	-16.1	-0.9	7.9	4.6	2.0	5.7	4.2	13.6
Dry (24%)	-2.9	5.0	1.0	-3.2	-0.2	15.9	14.7	0.3	-6.0	7.6	9.4	-1.4
Critical (15%)	-0.2	-0.3	-14.5	-24.8	-0.4	12.0	14.0	7.7	-4.4	-0.8	1.8	-0.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.20.6. Contra Costa Water District Old River Intake, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	206.8	225.9	237.8	210.5	145.7	90.8	66.0	60.1	63.3	71.7	119.6	165.3
20%	194.0	193.4	209.4	189.8	115.4	71.4	57.5	53.7	49.5	48.4	91.4	157.9
30%	186.6	179.1	201.8	170.3	89.6	59.6	45.4	46.3	37.7	43.6	83.3	148.6
40%	181.0	166.8	188.0	159.2	70.2	49.1	40.7	36.3	34.2	37.3	75.2	139.7
50%	175.0	159.0	171.0	136.8	63.0	44.6	35.9	32.2	30.5	32.9	62.1	134.8
60%	171.1	154.3	154.1	92.9	54.9	40.2	31.9	30.4	28.9	29.5	52.5	130.9
70%	161.9	147.0	137.5	60.0	51.4	33.7	30.0	29.1	27.8	27.7	43.5	128.0
80%	156.7	127.3	89.9	49.2	39.9	29.6	29.0	28.5	26.8	27.0	39.8	115.0
90%	138.4	88.9	41.6	38.3	30.8	27.4	24.3	26.5	25.4	26.1	35.5	101.1
Long Term												
Full Simulation Period[b]	169.3	158.1	159.5	125.0	77.3	52.1	42.9	39.7	38.0	42.6	69.4	134.4
Water Year Types[c]												
Wet (32%)	152.1	142.6	116.9	66.3	47.6	40.8	29.4	26.3	28.8	27.9	39.7	108.7
Above Normal (16%)	186.0	163.7	155.2	120.5	62.2	40.7	34.2	30.1	28.6	27.4	46.7	136.3
Below Normal (13%)	155.7	139.5	159.8	145.1	104.3	56.7	44.8	38.8	29.7	37.2	71.0	136.8
Dry (24%)	173.9	163.5	185.2	156.6	88.9	51.0	46.3	46.6	39.9	47.8	90.6	145.8
Critical (15%)	193.6	193.3	213.1	186.2	114.0	86.8	74.3	68.6	72.9	87.1	121.8	166.8

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	210.0	226.3	228.4	200.6	122.6	98.9	108.2	104.6	85.3	77.2	129.8	167.4
20%	193.1	185.6	190.2	172.6	108.2	79.3	98.2	101.8	61.6	57.1	117.5	157.9
30%	178.2	159.2	163.7	142.1	91.4	70.6	81.0	89.0	55.6	49.7	97.3	145.5
40%	168.4	141.4	129.0	112.8	82.6	59.8	66.0	74.9	47.5	44.0	75.9	136.9
50%	152.0	119.5	71.5	103.8	77.1	53.9	56.9	62.1	42.9	32.7	66.4	117.5
60%	46.8	43.5	57.4	88.1	70.5	49.4	42.2	54.3	39.2	29.6	53.2	109.4
70%	42.2	32.2	39.4	78.0	58.8	44.4	38.3	51.2	37.9	28.7	46.7	101.3
80%	39.3	29.3	32.9	59.8	50.6	38.7	29.2	37.9	34.6	27.5	42.7	87.3
90%	35.7	27.9	29.9	49.7	40.6	29.9	22.2	17.7	27.9	26.8	35.3	76.2
Long Term												
Full Simulation Period[b]	116.8	110.1	108.4	113.1	82.8	62.0	61.6	66.1	49.8	45.8	76.7	121.3
Water Year Types[c]												
Wet (32%)	89.1	77.4	66.0	72.4	57.6	42.4	29.0	34.7	33.1	28.1	42.4	91.9
Above Normal (16%)	151.2	136.7	110.4	103.8	76.5	49.3	46.8	54.4	39.3	28.3	46.5	80.8
Below Normal (13%)	88.5	80.0	94.4	108.8	83.9	60.7	63.3	73.8	51.9	40.2	70.6	148.1
Dry (24%)	116.8	116.0	125.2	141.3	93.0	71.1	82.3	86.7	55.9	60.5	113.7	145.3
Critical (15%)	165.5	170.0	183.2	168.2	125.8	103.9	112.0	105.7	85.3	83.4	127.5	164.2

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3.2	0.4	-9.4	-9.9	-23.1	8.1	42.1	44.5	22.0	5.5	10.2	2.1
20%	-0.9	-7.7	-19.2	-17.1	-7.2	7.9	40.8	48.1	12.2	8.6	26.0	0.0
30%	-8.3	-19.8	-38.1	-28.3	1.9	11.0	35.6	42.6	17.8	6.1	14.0	-3.1
40%	-12.5	-25.4	-59.0	-46.3	12.5	10.7	25.3	38.6	13.3	6.7	0.7	-2.8
50%	-22.9	-39.5	-99.4	-33.1	14.1	9.4	21.1	29.9	12.3	-0.2	4.3	-17.3
60%	-124.3	-110.8	-96.8	-4.8	15.7	9.2	10.2	23.8	10.2	0.1	0.8	-21.5
70%	-119.6	-114.8	-98.1	18.1	7.4	10.7	8.3	22.1	10.1	1.0	3.2	-26.7
80%	-117.3	-98.0	-57.1	10.7	10.7	9.1	0.3	9.3	7.8	0.6	2.9	-27.7
90%	-102.7	-61.0	-11.7	11.4	9.8	2.5	-2.1	-8.8	2.5	0.7	-0.2	-24.9
Long Term												
Full Simulation Period[b]	-52.5	-47.9	-51.0	-12.0	5.5	9.8	18.6	26.4	11.8	3.2	7.2	-13.1
Water Year Types[c]												
Wet (32%)	-63.0	-65.2	-50.9	6.0	10.1	1.6	-0.4	8.4	4.3	0.2	2.7	-16.8
Above Normal (16%)	-34.8	-27.0	-44.8	-16.7	14.3	8.6	12.5	24.3	10.7	0.9	-0.2	-55.5
Below Normal (13%)	-67.2	-59.5	-65.4	-36.3	-20.4	4.0	18.6	35.0	22.2	3.0	-0.5	11.3
Dry (24%)	-57.1	-47.6	-60.0	-15.3	4.2	20.1	36.0	40.1	16.0	12.7	23.2	-0.5
Critical (15%)	-28.1	-23.3	-29.9	-18.1	11.8	17.1	37.6	37.1	12.4	-3.7	5.7	-2.5

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.21. Contra Costa Water District Victoria Canal Intake Chloride Concentration

Table 6E.B.21.1. Contra Costa Victoria Canal Intake, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	113.4	124.0	146.2	160.4	141.4	117.2	113.6	88.1	71.9	56.9	76.0	91.4
20%	102.8	103.3	122.2	141.7	120.6	111.5	98.9	82.9	63.0	49.5	63.4	83.6
30%	96.4	93.5	108.5	120.8	111.3	98.7	89.8	79.2	56.6	44.5	58.7	80.1
40%	91.4	87.7	95.6	110.7	104.9	93.5	80.5	75.7	54.3	38.5	45.1	73.7
50%	84.6	73.4	67.3	100.4	99.6	85.1	69.9	61.4	53.2	35.7	39.2	70.5
60%	58.9	55.0	55.7	93.3	94.5	75.4	45.7	56.0	51.4	32.9	36.1	68.2
70%	56.5	51.8	48.6	86.2	87.1	63.9	37.3	49.3	48.9	30.9	33.4	63.7
80%	50.7	49.2	40.6	81.1	71.9	49.1	28.9	37.2	45.9	28.9	28.8	54.2
90%	44.8	45.3	33.5	69.8	53.8	37.6	21.8	17.2	38.0	27.0	26.9	49.3
Long Term												
Full Simulation Period[b]	77.5	77.0	82.4	107.2	98.3	82.2	65.3	60.9	53.9	40.1	47.5	70.2
Water Year Types[c]												
Wet (32%)	67.1	62.4	62.3	85.3	71.1	50.4	29.5	35.3	43.7	39.0	31.6	60.8
Above Normal (16%)	88.0	89.4	87.1	106.6	99.3	75.1	52.4	57.0	52.1	32.8	30.1	51.2
Below Normal (13%)	69.7	64.7	71.8	102.7	105.2	93.2	77.7	74.6	57.0	30.8	39.5	74.3
Dry (24%)	76.9	78.9	87.1	119.0	109.3	99.3	88.9	72.8	55.0	36.9	64.6	77.5
Critical (15%)	96.9	103.6	122.4	139.8	131.5	119.7	106.0	88.1	73.5	64.3	80.0	95.6

Alternative 1

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	118.3	126.7	133.5	151.5	124.0	104.0	94.8	80.9	75.4	53.7	69.0	95.4
20%	107.2	101.7	119.5	136.5	112.8	86.0	79.7	75.2	61.0	48.1	54.8	83.9
30%	100.3	99.0	114.1	127.2	97.1	83.3	68.8	70.2	53.5	43.7	49.3	77.5
40%	97.6	93.6	107.5	116.9	89.3	74.2	63.4	57.4	48.8	39.3	44.7	71.7
50%	93.5	88.3	102.3	109.8	80.7	67.5	58.4	49.5	45.5	35.3	40.4	69.4
60%	89.9	84.9	99.4	83.1	69.6	61.3	51.1	45.3	42.4	31.2	35.6	67.0
70%	86.4	77.4	89.2	74.8	65.5	53.6	44.4	41.2	39.6	28.6	33.5	63.0
80%	81.2	71.3	67.8	69.1	57.1	47.1	37.0	37.0	38.3	27.9	29.6	61.1
90%	66.4	63.8	44.0	54.3	47.9	39.2	27.1	22.9	31.8	26.2	28.0	51.5
Long Term												
Full Simulation Period[b]	92.6	89.4	97.5	103.6	83.9	69.0	58.2	53.3	49.3	39.6	45.1	70.5
Water Year Types[c]												
Wet (32%)	82.6	76.9	78.5	72.6	57.8	47.9	33.6	31.2	39.8	38.4	31.8	54.6
Above Normal (16%)	101.0	95.9	96.5	104.1	79.1	62.5	51.2	45.0	42.9	31.7	31.2	67.5
Below Normal (13%)	82.8	77.2	93.2	109.8	103.9	82.6	67.8	57.9	41.1	28.2	41.5	69.5
Dry (24%)	95.3	92.4	106.9	117.8	92.0	74.3	69.3	66.3	53.3	36.1	53.9	77.4
Critical (15%)	109.5	115.4	128.3	141.1	113.9	100.7	91.9	84.2	77.7	66.6	77.8	97.5

Alternative 1 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	4.8	2.7	-12.7	-8.9	-17.4	-13.2	-18.8	-7.2	3.5	-3.2	-7.0	4.0
20%	4.3	-1.6	-2.7	-5.1	-7.9	-25.6	-19.1	-7.7	-2.0	-1.4	-8.7	0.3
30%	3.9	5.5	5.5	6.3	-14.2	-15.4	-21.0	-9.0	-3.0	-0.8	-9.4	-2.6
40%	6.3	5.9	12.0	6.2	-15.6	-19.3	-17.1	-18.3	-5.5	0.8	-0.4	-1.9
50%	8.9	14.9	35.0	9.4	-18.8	-17.5	-11.5	-11.9	-7.7	-0.5	1.2	-1.1
60%	31.0	29.9	43.6	-10.2	-25.0	-14.1	5.3	-10.6	-8.9	-1.7	-0.5	-1.2
70%	30.0	25.6	40.6	-11.4	-21.6	-10.3	7.1	-8.1	-9.4	-2.3	0.1	-0.7
80%	30.4	22.1	27.2	-12.0	-14.8	-2.0	8.1	-0.2	-7.6	-1.0	0.8	6.9
90%	21.6	18.5	10.4	-15.5	-5.9	1.6	5.3	5.7	-6.2	-0.9	1.1	2.2
Long Term												
Full Simulation Period[b]	15.0	12.3	15.2	-3.6	-14.4	-13.1	-7.0	-7.6	-4.6	-0.6	-2.4	0.2
Water Year Types[c]												
Wet (32%)	15.4	14.5	16.2	-12.7	-13.3	-2.6	4.2	-4.1	-3.9	-0.6	0.2	-6.2
Above Normal (16%)	13.0	6.5	9.3	-2.6	-20.2	-12.7	-1.3	-12.0	-9.2	-1.2	1.0	16.3
Below Normal (13%)	13.1	12.5	21.4	7.1	-1.3	-10.7	-9.9	-16.6	-15.9	-2.6	2.0	-4.8
Dry (24%)	18.4	13.5	19.8	-1.3	-17.3	-25.0	-19.6	-6.5	-1.6	-0.8	-10.7	-0.1
Critical (15%)	12.6	11.8	5.9	1.2	-17.6	-19.0	-14.1	-3.9	4.2	2.3	-2.1	1.9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.21.2. Contra Costa Victoria Canal Intake, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	113.4	124.0	146.2	160.4	141.4	117.2	113.6	88.1	71.9	56.9	76.0	91.4
20%	102.8	103.3	122.2	141.7	120.6	111.5	98.9	82.9	63.0	49.5	63.4	83.6
30%	96.4	93.5	108.5	120.8	111.3	98.7	89.8	79.2	56.6	44.5	58.7	80.1
40%	91.4	87.7	95.6	110.7	104.9	93.5	80.5	75.7	54.3	38.5	45.1	73.7
50%	84.6	73.4	67.3	100.4	99.6	85.1	69.9	61.4	53.2	35.7	39.2	70.5
60%	58.9	55.0	55.7	93.3	94.5	75.4	45.7	56.0	51.4	32.9	36.1	68.2
70%	56.5	51.8	48.6	86.2	87.1	63.9	37.3	49.3	48.9	30.9	33.4	63.7
80%	50.7	49.2	40.6	81.1	71.9	49.1	28.9	37.2	45.9	28.9	28.8	54.2
90%	44.8	45.3	33.5	69.8	53.8	37.6	21.8	17.2	38.0	27.0	26.9	49.3
Long Term												
Full Simulation Period[b]	77.5	77.0	82.4	107.2	98.3	82.2	65.3	60.9	53.9	40.1	47.5	70.2
Water Year Types[c]												
Wet (32%)	67.1	62.4	62.3	85.3	71.1	50.4	29.5	35.3	43.7	39.0	31.6	60.8
Above Normal (16%)	88.0	89.4	87.1	106.6	99.3	75.1	52.4	57.0	52.1	32.8	30.1	51.2
Below Normal (13%)	69.7	64.7	71.8	102.7	105.2	93.2	77.7	74.6	57.0	30.8	39.5	74.3
Dry (24%)	76.9	78.9	87.1	119.0	109.3	99.3	88.9	72.8	55.0	36.9	64.6	77.5
Critical (15%)	96.9	103.6	122.4	139.8	131.5	119.7	106.0	88.1	73.5	64.3	80.0	95.6

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	117.1	125.1	131.6	152.6	127.9	117.2	105.3	82.1	56.7	55.8	77.3	89.3
20%	107.1	104.1	119.2	140.0	116.2	106.7	93.2	71.6	50.9	50.7	60.3	85.3
30%	101.8	98.0	115.6	133.8	110.1	96.0	83.1	60.8	48.0	44.5	54.1	79.6
40%	97.1	93.8	108.9	123.7	103.9	89.6	73.5	47.2	43.8	36.1	46.2	76.0
50%	93.8	88.4	103.8	115.7	95.1	77.1	61.8	44.8	41.2	33.5	39.4	71.3
60%	88.7	84.0	97.6	96.4	84.9	67.6	51.5	40.8	38.3	31.0	36.7	68.2
70%	85.6	76.6	89.7	86.9	76.2	60.4	44.5	37.4	35.1	29.8	33.5	64.2
80%	80.9	71.9	74.5	77.6	60.5	45.1	34.7	34.3	32.6	28.1	29.2	60.6
90%	66.6	63.1	49.6	68.5	46.9	38.5	28.0	23.1	28.8	25.7	27.4	48.0
Long Term												
Full Simulation Period[b]	92.3	90.5	99.0	111.0	91.8	77.9	64.6	49.7	43.5	39.4	46.7	71.3
Water Year Types[c]												
Wet (32%)	81.9	78.0	81.5	84.3	62.9	47.3	34.4	29.3	36.0	38.3	31.8	52.8
Above Normal (16%)	102.3	98.9	100.2	117.9	92.6	67.6	51.8	40.0	38.3	30.9	30.6	68.4
Below Normal (13%)	83.0	76.4	93.2	118.9	105.1	87.3	72.3	55.6	42.1	29.8	41.9	76.6
Dry (24%)	93.8	93.9	108.7	125.6	104.6	96.0	84.6	60.0	43.1	36.3	60.2	78.2
Critical (15%)	109.9	116.0	125.1	130.0	119.7	116.2	103.2	82.0	67.2	64.9	78.4	97.9

Alternative 3 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	3.7	1.1	-14.6	-7.8	-13.5	0.0	-8.3	-6.0	-15.2	-1.1	1.3	-2.1
20%	4.2	0.7	-3.0	-1.7	-4.4	-4.8	-5.6	-11.2	-12.1	1.3	-3.1	1.6
30%	5.4	4.5	7.1	13.0	-1.2	-2.7	-6.6	-18.4	-8.6	0.0	-4.6	-0.5
40%	5.8	6.1	13.3	13.0	-1.0	-3.8	-7.1	-28.5	-10.5	-2.4	1.1	2.3
50%	9.2	15.0	36.4	15.3	-4.4	-8.0	-8.1	-16.6	-12.0	-2.2	0.2	0.8
60%	29.8	29.0	41.9	3.1	-9.7	-7.8	5.7	-15.2	-13.0	-1.9	0.6	-0.1
70%	29.1	24.8	41.1	0.8	-10.8	-3.5	7.2	-11.9	-13.9	-1.1	0.1	0.5
80%	30.2	22.7	33.9	-3.4	-11.4	-4.0	5.7	-2.9	-13.3	-0.8	0.4	6.4
90%	21.9	17.7	16.1	-1.3	-7.0	0.9	6.2	6.0	-9.2	-1.3	0.5	-1.3
Long Term												
Full Simulation Period[b]	14.7	13.5	16.7	3.8	-6.5	-4.3	-0.7	-11.1	-10.5	-0.8	-0.8	1.0
Water Year Types[c]												
Wet (32%)	14.7	15.6	19.2	-1.0	-8.1	-3.1	5.0	-5.9	-7.7	-0.8	0.2	-8.0
Above Normal (16%)	14.3	9.5	13.0	11.2	-6.7	-7.5	-0.7	-17.0	-13.8	-1.9	0.5	17.2
Below Normal (13%)	13.3	11.7	21.4	16.2	-0.1	-6.0	-5.3	-19.0	-14.9	-1.0	2.4	2.3
Dry (24%)	16.8	15.0	21.6	6.5	-4.6	-3.3	-4.3	-12.8	-11.9	-0.6	-4.3	0.7
Critical (15%)	13.0	12.4	2.7	-9.9	-11.8	-3.4	-2.8	-6.1	-6.4	0.6	-1.6	2.3

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.21.3. Contra Costa Victoria Canal Intake, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	113.4	124.0	146.2	160.4	141.4	117.2	113.6	88.1	71.9	56.9	76.0	91.4
20%	102.8	103.3	122.2	141.7	120.6	111.5	98.9	82.9	63.0	49.5	63.4	83.6
30%	96.4	93.5	108.5	120.8	111.3	98.7	89.8	79.2	56.6	44.5	58.7	80.1
40%	91.4	87.7	95.6	110.7	104.9	93.5	80.5	75.7	54.3	38.5	45.1	73.7
50%	84.6	73.4	67.3	100.4	99.6	85.1	69.9	61.4	53.2	35.7	39.2	70.5
60%	58.9	55.0	55.7	93.3	94.5	75.4	45.7	56.0	51.4	32.9	36.1	68.2
70%	56.5	51.8	48.6	86.2	87.1	63.9	37.3	49.3	48.9	30.9	33.4	63.7
80%	50.7	49.2	40.6	81.1	71.9	49.1	28.9	37.2	45.9	28.9	28.8	54.2
90%	44.8	45.3	33.5	69.8	53.8	37.6	21.8	17.2	38.0	27.0	26.9	49.3
Long Term												
Full Simulation Period[b]	77.5	77.0	82.4	107.2	98.3	82.2	65.3	60.9	53.9	40.1	47.5	70.2
Water Year Types[c]												
Wet (32%)	67.1	62.4	62.3	85.3	71.1	50.4	29.5	35.3	43.7	39.0	31.6	60.8
Above Normal (16%)	88.0	89.4	87.1	106.6	99.3	75.1	52.4	57.0	52.1	32.8	30.1	51.2
Below Normal (13%)	69.7	64.7	71.8	102.7	105.2	93.2	77.7	74.6	57.0	30.8	39.5	74.3
Dry (24%)	76.9	78.9	87.1	119.0	109.3	99.3	88.9	72.8	55.0	36.9	64.6	77.5
Critical (15%)	96.9	103.6	122.4	139.8	131.5	119.7	106.0	88.1	73.5	64.3	80.0	95.6

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	115.0	125.3	147.3	160.3	141.4	117.2	115.1	101.4	89.3	56.4	80.7	91.2
20%	105.5	107.8	123.9	141.6	120.2	111.9	106.4	98.7	74.1	50.4	65.8	85.1
30%	97.2	92.8	108.8	120.8	112.3	98.6	95.2	85.2	67.0	45.1	58.9	81.9
40%	93.0	88.2	90.3	110.5	106.8	93.4	77.6	71.1	59.2	40.5	45.6	75.6
50%	85.2	75.4	67.6	100.4	99.6	85.0	68.1	59.3	55.9	36.7	39.0	70.7
60%	60.0	54.8	55.8	93.5	94.6	75.3	45.7	51.5	53.4	33.4	36.1	68.9
70%	56.3	51.7	48.2	86.2	87.0	63.7	37.7	47.8	51.4	31.7	32.6	64.3
80%	50.6	49.2	42.2	80.8	71.9	49.1	28.9	36.0	46.8	29.3	28.9	54.9
90%	44.6	45.5	33.5	69.8	53.8	37.6	22.2	17.2	40.5	27.4	27.0	48.7
Long Term												
Full Simulation Period[b]	78.3	77.5	82.3	107.4	98.7	82.4	67.2	63.6	59.9	40.4	48.1	70.9
Water Year Types[c]												
Wet (32%)	67.6	63.1	63.3	85.3	71.7	50.8	29.5	32.9	43.8	39.1	31.5	60.8
Above Normal (16%)	90.0	90.0	85.8	106.3	99.4	75.2	51.2	51.8	52.8	33.0	30.1	51.1
Below Normal (13%)	69.8	65.2	71.9	102.6	104.8	93.1	73.6	70.4	62.5	31.4	39.5	75.2
Dry (24%)	77.7	79.1	86.4	120.5	110.0	99.5	92.6	83.7	67.0	38.5	68.1	79.6
Critical (15%)	97.4	103.8	122.5	138.9	132.3	120.8	117.6	103.4	88.1	62.6	78.0	95.8

Alternative 5 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	1.6	1.3	1.1	-0.1	0.0	-0.1	1.5	13.4	17.3	-0.5	4.7	-0.2
20%	2.7	4.5	1.7	-0.1	-0.4	0.3	7.6	15.9	11.1	1.0	2.4	1.5
30%	0.8	-0.6	0.2	-0.1	1.0	-0.1	5.4	6.0	10.4	0.6	0.2	1.8
40%	1.7	0.5	-5.2	-0.1	1.9	-0.1	-3.0	-4.7	4.9	1.9	0.4	1.9
50%	0.6	2.1	0.3	0.0	0.1	-0.1	-1.8	-2.1	2.7	1.0	-0.2	0.3
60%	1.1	-0.2	0.0	0.2	0.0	-0.1	0.0	-4.5	2.0	0.5	0.1	0.7
70%	-0.2	-0.1	-0.4	0.0	0.0	-0.2	0.4	-1.5	2.5	0.8	-0.8	0.6
80%	-0.2	0.0	1.6	-0.3	0.0	0.0	0.0	-1.2	0.9	0.4	0.1	0.7
90%	-0.1	0.1	-0.1	0.0	0.0	0.0	0.4	0.0	2.5	0.3	0.1	-0.6
Long Term												
Full Simulation Period[b]	0.7	0.5	0.0	0.1	0.5	0.3	1.9	2.8	5.9	0.2	0.5	0.6
Water Year Types[c]												
Wet (32%)	0.5	0.7	1.0	0.0	0.6	0.4	0.1	-2.4	0.1	0.0	-0.1	0.0
Above Normal (16%)	2.0	0.7	-1.3	-0.3	0.1	0.0	-1.2	-5.2	0.7	0.2	0.0	-0.1
Below Normal (13%)	0.1	0.5	0.1	-0.1	-0.3	-0.2	-4.0	-4.1	5.5	0.5	0.0	0.8
Dry (24%)	0.8	0.2	-0.7	1.4	0.7	0.1	3.7	10.9	12.0	1.6	3.5	2.1
Critical (15%)	0.5	0.2	0.0	-0.9	0.7	1.1	11.5	15.3	14.6	-1.8	-2.0	0.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.21.4. Contra Costa Victoria Canal Intake, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	118.3	126.7	133.5	151.5	124.0	104.0	94.8	80.9	75.4	53.7	69.0	95.4
20%	107.2	101.7	119.5	136.5	112.8	86.0	79.7	75.2	61.0	48.1	54.8	83.9
30%	100.3	99.0	114.1	127.2	97.1	83.3	68.8	70.2	53.5	43.7	49.3	77.5
40%	97.6	93.6	107.5	116.9	89.3	74.2	63.4	57.4	48.8	39.3	44.7	71.7
50%	93.5	88.3	102.3	109.8	80.7	67.5	58.4	49.5	45.5	35.3	40.4	69.4
60%	89.9	84.9	99.4	83.1	69.6	61.3	51.1	45.3	42.4	31.2	35.6	67.0
70%	86.4	77.4	89.2	74.8	65.5	53.6	44.4	41.2	39.6	28.6	33.5	63.0
80%	81.2	71.3	67.8	69.1	57.1	47.1	37.0	37.0	38.3	27.9	29.6	61.1
90%	66.4	63.8	44.0	54.3	47.9	39.2	27.1	22.9	31.8	26.2	28.0	51.5
Long Term												
Full Simulation Period[b]	92.6	89.4	97.5	103.6	83.9	69.0	58.2	53.3	49.3	39.6	45.1	70.5
Water Year Types[c]												
Wet (32%)	82.6	76.9	78.5	72.6	57.8	47.9	33.6	31.2	39.8	38.4	31.8	54.6
Above Normal (16%)	101.0	95.9	96.5	104.1	79.1	62.5	51.2	45.0	42.9	31.7	31.2	67.5
Below Normal (13%)	82.8	77.2	93.2	109.8	103.9	82.6	67.8	57.9	41.1	28.2	41.5	69.5
Dry (24%)	95.3	92.4	106.9	117.8	92.0	74.3	69.3	66.3	53.3	36.1	53.9	77.4
Critical (15%)	109.5	115.4	128.3	141.1	113.9	100.7	91.9	84.2	77.7	66.6	77.8	97.5

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	113.4	124.0	146.2	160.4	141.4	117.2	113.6	88.1	71.9	56.9	76.0	91.4
20%	102.8	103.3	122.2	141.7	120.6	111.5	98.9	82.9	63.0	49.5	63.4	83.6
30%	96.4	93.5	108.5	120.8	111.3	98.7	89.8	79.2	56.6	44.5	58.7	80.1
40%	91.4	87.7	95.6	110.7	104.9	93.5	80.5	75.7	54.3	38.5	45.1	73.7
50%	84.6	73.4	67.3	100.4	99.6	85.1	69.9	61.4	53.2	35.7	39.2	70.5
60%	58.9	55.0	55.7	93.3	94.5	75.4	45.7	56.0	51.4	32.9	36.1	68.2
70%	56.5	51.8	48.6	86.2	87.1	63.9	37.3	49.3	48.9	30.9	33.4	63.7
80%	50.7	49.2	40.6	81.1	71.9	49.1	28.9	37.2	45.9	28.9	28.8	54.2
90%	44.8	45.3	33.5	69.8	53.8	37.6	21.8	17.2	38.0	27.0	26.9	49.3
Long Term												
Full Simulation Period[b]	77.5	77.0	82.4	107.2	98.3	82.2	65.3	60.9	53.9	40.1	47.5	70.2
Water Year Types[c]												
Wet (32%)	67.1	62.4	62.3	85.3	71.1	50.4	29.5	35.3	43.7	39.0	31.6	60.8
Above Normal (16%)	88.0	89.4	87.1	106.6	99.3	75.1	52.4	57.0	52.1	32.8	30.1	51.2
Below Normal (13%)	69.7	64.7	71.8	102.7	105.2	93.2	77.7	74.6	57.0	30.8	39.5	74.3
Dry (24%)	76.9	78.9	87.1	119.0	109.3	99.3	88.9	72.8	55.0	36.9	64.6	77.5
Critical (15%)	96.9	103.6	122.4	139.8	131.5	119.7	106.0	88.1	73.5	64.3	80.0	95.6

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-4.8	-2.7	12.7	8.9	17.4	13.2	18.8	7.2	-3.5	3.2	7.0	-4.0
20%	-4.3	1.6	2.7	5.1	7.9	25.6	19.1	7.7	2.0	1.4	8.7	-0.3
30%	-3.9	-5.5	-5.5	-6.3	14.2	15.4	21.0	9.0	3.0	0.8	9.4	2.6
40%	-6.3	-5.9	-12.0	-6.2	15.6	19.3	17.1	18.3	5.5	-0.8	0.4	1.9
50%	-8.9	-14.9	-35.0	-9.4	18.8	17.5	11.5	11.9	7.7	0.5	-1.2	1.1
60%	-31.0	-29.9	-43.6	10.2	25.0	14.1	-5.3	10.6	8.9	1.7	0.5	1.2
70%	-30.0	-25.6	-40.6	11.4	21.6	10.3	-7.1	8.1	9.4	2.3	-0.1	0.7
80%	-30.4	-22.1	-27.2	12.0	14.8	2.0	-8.1	0.2	7.6	1.0	-0.8	-6.9
90%	-21.6	-18.5	-10.4	15.5	5.9	-1.6	-5.3	-5.7	6.2	0.9	-1.1	-2.2
Long Term												
Full Simulation Period[b]	-15.0	-12.3	-15.2	3.6	14.4	13.1	7.0	7.6	4.6	0.6	2.4	-0.2
Water Year Types[c]												
Wet (32%)	-15.4	-14.5	-16.2	12.7	13.3	2.6	-4.2	4.1	3.9	0.6	-0.2	6.2
Above Normal (16%)	-13.0	-6.5	-9.3	2.6	20.2	12.7	1.3	12.0	9.2	1.2	-1.0	-16.3
Below Normal (13%)	-13.1	-12.5	-21.4	-7.1	1.3	10.7	9.9	16.6	15.9	2.6	-2.0	4.8
Dry (24%)	-18.4	-13.5	-19.8	1.3	17.3	25.0	19.6	6.5	1.6	0.8	10.7	0.1
Critical (15%)	-12.6	-11.8	-5.9	-1.2	17.6	19.0	14.1	3.9	-4.2	-2.3	2.1	-1.9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.21.5. Contra Costa Victoria Canal Intake, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	118.3	126.7	133.5	151.5	124.0	104.0	94.8	80.9	75.4	53.7	69.0	95.4
20%	107.2	101.7	119.5	136.5	112.8	86.0	79.7	75.2	61.0	48.1	54.8	83.9
30%	100.3	99.0	114.1	127.2	97.1	83.3	68.8	70.2	53.5	43.7	49.3	77.5
40%	97.6	93.6	107.5	116.9	89.3	74.2	63.4	57.4	48.8	39.3	44.7	71.7
50%	93.5	88.3	102.3	109.8	80.7	67.5	58.4	49.5	45.5	35.3	40.4	69.4
60%	89.9	84.9	99.4	83.1	69.6	61.3	51.1	45.3	42.4	31.2	35.6	67.0
70%	86.4	77.4	89.2	74.8	65.5	53.6	44.4	41.2	39.6	28.6	33.5	63.0
80%	81.2	71.3	67.8	69.1	57.1	47.1	37.0	37.0	38.3	27.9	29.6	61.1
90%	66.4	63.8	44.0	54.3	47.9	39.2	27.1	22.9	31.8	26.2	28.0	51.5
Long Term												
Full Simulation Period[b]	92.6	89.4	97.5	103.6	83.9	69.0	58.2	53.3	49.3	39.6	45.1	70.5
Water Year Types[c]												
Wet (32%)	82.6	76.9	78.5	72.6	57.8	47.9	33.6	31.2	39.8	38.4	31.8	54.6
Above Normal (16%)	101.0	95.9	96.5	104.1	79.1	62.5	51.2	45.0	42.9	31.7	31.2	67.5
Below Normal (13%)	82.8	77.2	93.2	109.8	103.9	82.6	67.8	57.9	41.1	28.2	41.5	69.5
Dry (24%)	95.3	92.4	106.9	117.8	92.0	74.3	69.3	66.3	53.3	36.1	53.9	77.4
Critical (15%)	109.5	115.4	128.3	141.1	113.9	100.7	91.9	84.2	77.7	66.6	77.8	97.5

Alternative 3

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	117.1	125.1	131.6	152.6	127.9	117.2	105.3	82.1	56.7	55.8	77.3	89.3
20%	107.1	104.1	119.2	140.0	116.2	106.7	93.2	71.6	50.9	50.7	60.3	85.3
30%	101.8	98.0	115.6	133.8	110.1	96.0	83.1	60.8	48.0	44.5	54.1	79.6
40%	97.1	93.8	108.9	123.7	103.9	89.6	73.5	47.2	43.8	36.1	46.2	76.0
50%	93.8	88.4	103.8	115.7	95.1	77.1	61.8	44.8	41.2	33.5	39.4	71.3
60%	88.7	84.0	97.6	96.4	84.9	67.6	51.5	40.8	38.3	31.0	36.7	68.2
70%	85.6	76.6	89.7	86.9	76.2	60.4	44.5	37.4	35.1	29.8	33.5	64.2
80%	80.9	71.9	74.5	77.6	60.5	45.1	34.7	34.3	32.6	28.1	29.2	60.6
90%	66.6	63.1	49.6	68.5	46.9	38.5	28.0	23.1	28.8	25.7	27.4	48.0
Long Term												
Full Simulation Period[b]	92.3	90.5	99.0	111.0	91.8	77.9	64.6	49.7	43.5	39.4	46.7	71.3
Water Year Types[c]												
Wet (32%)	81.9	78.0	81.5	84.3	62.9	47.3	34.4	29.3	36.0	38.3	31.8	52.8
Above Normal (16%)	102.3	98.9	100.2	117.9	92.6	67.6	51.8	40.0	38.3	30.9	30.6	68.4
Below Normal (13%)	83.0	76.4	93.2	118.9	105.1	87.3	72.3	55.6	42.1	29.8	41.9	76.6
Dry (24%)	93.8	93.9	108.7	125.6	104.6	96.0	84.6	60.0	43.1	36.3	60.2	78.2
Critical (15%)	109.9	116.0	125.1	130.0	119.7	116.2	103.2	82.0	67.2	64.9	78.4	97.9

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-1.2	-1.6	-1.9	1.1	3.9	13.2	10.5	1.2	-18.7	2.1	8.3	-6.1
20%	-0.1	2.4	-0.3	3.4	3.5	20.7	13.5	-3.6	-10.1	2.6	5.5	1.4
30%	1.5	-1.0	1.5	6.6	13.0	12.7	14.4	-9.5	-5.6	0.8	4.8	2.1
40%	-0.5	0.2	1.3	6.8	14.6	15.4	10.1	-10.2	-4.9	-3.2	1.5	4.2
50%	0.3	0.1	1.4	5.9	14.4	9.6	3.4	-4.7	-4.3	-1.8	-1.0	1.9
60%	-1.2	-0.9	-1.7	13.3	15.3	6.3	0.4	-4.5	-4.1	-0.2	1.1	1.1
70%	-0.8	-0.8	0.5	12.2	10.8	6.8	0.1	-3.7	-4.5	1.3	0.0	1.3
80%	-0.2	0.6	6.7	8.6	3.4	-2.1	-2.4	-2.7	-5.7	0.3	-0.4	-0.5
90%	0.2	-0.8	5.7	14.2	-1.1	-0.7	0.9	0.2	-3.0	-0.5	-0.5	-3.5
Long Term												
Full Simulation Period[b]	-0.3	1.1	1.5	7.4	7.8	8.8	6.3	-3.5	-5.8	-0.2	1.6	0.8
Water Year Types[c]												
Wet (32%)	-0.7	1.1	3.0	11.7	5.1	-0.5	0.8	-1.8	-3.8	-0.2	0.0	-1.8
Above Normal (16%)	1.3	3.0	3.7	13.8	13.4	5.1	0.6	-5.0	-4.6	-0.7	-0.5	0.9
Below Normal (13%)	0.2	-0.8	0.0	9.1	1.2	4.7	4.5	-2.3	1.0	1.6	0.4	7.1
Dry (24%)	-1.6	1.4	1.8	7.8	12.6	21.7	15.3	-6.3	-10.2	0.2	6.4	0.9
Critical (15%)	0.4	0.6	-3.2	-11.1	5.9	15.5	11.2	-2.1	-10.6	-1.7	0.6	0.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.21.6. Contra Costa Victoria Canal Intake, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	118.3	126.7	133.5	151.5	124.0	104.0	94.8	80.9	75.4	53.7	69.0	95.4
20%	107.2	101.7	119.5	136.5	112.8	86.0	79.7	75.2	61.0	48.1	54.8	83.9
30%	100.3	99.0	114.1	127.2	97.1	83.3	68.8	70.2	53.5	43.7	49.3	77.5
40%	97.6	93.6	107.5	116.9	89.3	74.2	63.4	57.4	48.8	39.3	44.7	71.7
50%	93.5	88.3	102.3	109.8	80.7	67.5	58.4	49.5	45.5	35.3	40.4	69.4
60%	89.9	84.9	99.4	83.1	69.6	61.3	51.1	45.3	42.4	31.2	35.6	67.0
70%	86.4	77.4	89.2	74.8	65.5	53.6	44.4	41.2	39.6	28.6	33.5	63.0
80%	81.2	71.3	67.8	69.1	57.1	47.1	37.0	37.0	38.3	27.9	29.6	61.1
90%	66.4	63.8	44.0	54.3	47.9	39.2	27.1	22.9	31.8	26.2	28.0	51.5
Long Term												
Full Simulation Period[b]	92.6	89.4	97.5	103.6	83.9	69.0	58.2	53.3	49.3	39.6	45.1	70.5
Water Year Types[c]												
Wet (32%)	82.6	76.9	78.5	72.6	57.8	47.9	33.6	31.2	39.8	38.4	31.8	54.6
Above Normal (16%)	101.0	95.9	96.5	104.1	79.1	62.5	51.2	45.0	42.9	31.7	31.2	67.5
Below Normal (13%)	82.8	77.2	93.2	109.8	103.9	82.6	67.8	57.9	41.1	28.2	41.5	69.5
Dry (24%)	95.3	92.4	106.9	117.8	92.0	74.3	69.3	66.3	53.3	36.1	53.9	77.4
Critical (15%)	109.5	115.4	128.3	141.1	113.9	100.7	91.9	84.2	77.7	66.6	77.8	97.5

Alternative 5

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	115.0	125.3	147.3	160.3	141.4	117.2	115.1	101.4	89.3	56.4	80.7	91.2
20%	105.5	107.8	123.9	141.6	120.2	111.9	106.4	98.7	74.1	50.4	65.8	85.1
30%	97.2	92.8	108.8	120.8	112.3	98.6	95.2	85.2	67.0	45.1	58.9	81.9
40%	93.0	88.2	90.3	110.5	106.8	93.4	77.6	71.1	59.2	40.5	45.6	75.6
50%	85.2	75.4	67.6	100.4	99.6	85.0	68.1	59.3	55.9	36.7	39.0	70.7
60%	60.0	54.8	55.8	93.5	94.6	75.3	45.7	51.5	53.4	33.4	36.1	68.9
70%	56.3	51.7	48.2	86.2	87.0	63.7	37.7	47.8	51.4	31.7	32.6	64.3
80%	50.6	49.2	42.2	80.8	71.9	49.1	28.9	36.0	46.8	29.3	28.9	54.9
90%	44.6	45.5	33.5	69.8	53.8	37.6	22.2	17.2	40.5	27.4	27.0	48.7
Long Term												
Full Simulation Period[b]	78.3	77.5	82.3	107.4	98.7	82.4	67.2	63.6	59.9	40.4	48.1	70.9
Water Year Types[c]												
Wet (32%)	67.6	63.1	63.3	85.3	71.7	50.8	29.5	32.9	43.8	39.1	31.5	60.8
Above Normal (16%)	90.0	90.0	85.8	106.3	99.4	75.2	51.2	51.8	52.8	33.0	30.1	51.1
Below Normal (13%)	69.8	65.2	71.9	102.6	104.8	93.1	73.6	70.4	62.5	31.4	39.5	75.2
Dry (24%)	77.7	79.1	86.4	120.5	110.0	99.5	92.6	83.7	67.0	38.5	68.1	79.6
Critical (15%)	97.4	103.8	122.5	138.9	132.3	120.8	117.6	103.4	88.1	62.6	78.0	95.8

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-3.2	-1.5	13.8	8.8	17.4	13.2	20.4	20.5	13.9	2.7	11.7	-4.2
20%	-1.6	6.2	4.4	5.1	7.4	25.9	26.7	23.5	13.2	2.3	11.1	1.2
30%	-3.1	-6.1	-5.3	-6.4	15.2	15.3	26.4	14.9	13.5	1.4	9.6	4.4
40%	-4.6	-5.4	-17.2	-6.4	17.5	19.2	14.1	13.6	10.4	1.2	0.9	3.8
50%	-8.3	-12.9	-34.7	-9.4	18.9	17.4	9.7	9.8	10.3	1.4	-1.4	1.3
60%	-29.9	-30.1	-43.6	10.4	25.0	14.0	-5.4	6.2	10.9	2.2	0.5	1.9
70%	-30.1	-25.6	-40.9	11.4	21.6	10.1	-6.7	6.6	11.9	3.1	-0.8	1.3
80%	-30.6	-22.1	-25.6	11.7	14.8	2.0	-8.1	-1.0	8.5	1.4	-0.8	-6.2
90%	-21.8	-18.4	-10.5	15.4	5.9	-1.5	-4.9	-5.7	8.7	1.2	-1.0	-2.8
Long Term												
Full Simulation Period[b]	-14.3	-11.9	-15.2	3.7	14.8	13.4	8.9	10.4	10.6	0.8	3.0	0.4
Water Year Types[c]												
Wet (32%)	-15.0	-13.8	-15.2	12.7	13.9	3.0	-4.1	1.8	4.0	0.6	-0.3	6.2
Above Normal (16%)	-11.0	-5.9	-10.6	2.2	20.3	12.7	0.0	6.8	9.9	1.3	-1.0	-16.4
Below Normal (13%)	-13.0	-12.0	-21.3	-7.2	0.9	10.5	5.8	12.5	21.4	3.1	-2.0	5.6
Dry (24%)	-17.6	-13.3	-20.5	2.7	18.0	25.2	23.3	17.4	13.6	2.4	14.2	2.2
Critical (15%)	-12.1	-11.6	-5.9	-2.2	18.4	20.0	25.6	19.3	10.4	-4.0	0.2	-1.7

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.22. Antioch Chloride Concentration

Table 6E.B.22.1. Antioch, Monthly Chloride Concentration

No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,306.8	2,378.9	1,877.6	896.3	275.6	169.8	243.1	413.9	574.8	1,181.9	1,634.2	1,991.5
20%	2,029.7	1,951.0	1,489.9	724.0	142.6	98.4	110.6	306.3	508.7	950.6	1,390.3	1,853.0
30%	1,987.9	1,847.5	864.7	524.3	81.6	39.3	61.6	212.9	453.7	831.9	1,325.3	1,801.7
40%	1,902.8	1,463.3	712.0	300.6	51.8	27.3	32.1	88.2	381.6	596.4	1,070.0	1,654.6
50%	1,698.8	556.1	571.1	243.4	32.5	24.2	25.4	51.5	277.9	480.9	935.8	1,419.7
60%	504.0	474.1	466.9	72.5	27.6	22.7	22.9	30.9	227.7	321.5	875.4	590.5
70%	177.2	170.5	152.8	27.1	23.8	21.4	21.7	23.7	140.0	278.6	814.8	353.0
80%	162.3	143.4	74.7	23.1	21.6	20.1	20.9	21.2	65.8	251.3	751.3	326.8
90%	136.7	126.9	22.7	20.2	19.8	18.0	19.9	18.0	19.4	186.2	700.1	297.5
Long Term												
Full Simulation Period[b]	1,191.9	1,037.9	740.4	359.1	115.2	64.3	82.1	159.1	345.8	599.4	1,066.3	1,139.3
Water Year Types[c]												
Wet (32%)	788.6	570.4	198.8	62.0	25.3	21.1	21.4	26.7	109.7	212.5	749.2	304.4
Above Normal (16%)	1,556.8	1,108.7	623.9	160.1	33.0	22.1	23.0	37.7	224.5	305.3	770.2	589.2
Below Normal (13%)	810.0	761.1	727.9	396.3	116.1	66.4	74.2	141.5	362.7	509.0	950.8	1,575.6
Dry (24%)	1,287.5	1,230.9	1,063.7	557.0	161.5	67.1	86.0	187.1	408.4	887.7	1,344.1	1,790.2
Critical (15%)	1,860.9	1,906.5	1,513.1	854.5	321.3	197.1	278.6	546.6	869.0	1,358.8	1,716.9	2,059.1

Alternative 1

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,265.0	2,355.0	1,907.3	1,272.0	492.3	269.2	293.5	441.8	585.2	1,185.7	1,725.6	2,024.3
20%	1,989.6	1,973.6	1,852.9	1,080.6	267.2	115.6	164.1	306.8	504.9	950.1	1,463.9	1,915.1
30%	1,940.6	1,926.3	1,738.7	840.7	163.3	52.8	110.4	278.8	413.0	833.4	1,359.2	1,776.1
40%	1,883.9	1,853.0	1,562.7	487.3	89.4	34.9	64.6	142.7	315.6	570.4	1,146.3	1,678.9
50%	1,822.7	1,785.0	1,224.9	346.5	48.4	26.3	36.1	91.7	246.1	488.7	943.4	1,564.7
60%	1,785.1	1,679.0	789.1	173.4	28.3	23.6	24.3	55.6	204.4	348.3	891.2	1,486.9
70%	1,717.9	1,628.2	390.6	33.1	24.3	22.0	21.0	29.6	158.1	315.1	836.9	1,443.8
80%	1,629.3	1,437.3	231.9	23.7	20.9	20.0	19.6	18.4	79.9	251.7	786.8	1,381.2
90%	1,329.1	532.1	74.8	20.2	19.5	17.9	18.7	16.4	19.2	193.0	710.8	1,277.3
Long Term												
Full Simulation Period[b]	1,768.0	1,625.2	1,095.5	503.4	168.1	83.8	100.2	187.2	337.2	607.7	1,100.7	1,585.7
Water Year Types[c]												
Wet (32%)	1,560.8	1,366.5	426.2	92.4	27.4	21.2	23.8	37.0	99.7	226.7	761.2	1,243.5
Above Normal (16%)	1,916.5	1,571.0	1,047.8	285.6	51.2	22.6	29.2	65.4	196.2	317.2	809.4	1,433.2
Below Normal (13%)	1,647.4	1,433.8	1,199.6	735.0	243.8	96.9	107.8	190.2	304.9	524.4	1,023.0	1,608.1
Dry (24%)	1,848.5	1,825.8	1,518.3	788.7	236.1	88.0	110.8	216.2	408.0	873.5	1,387.6	1,827.7
Critical (15%)	2,032.6	2,085.8	1,797.1	941.8	417.1	266.8	318.1	593.5	916.2	1,381.0	1,744.9	2,068.3

Alternative 1 minus No Action Alternative

Statistic	Monthly Chloride Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-41.8	-23.9	29.8	375.7	216.7	99.4	50.4	27.9	10.3	3.8	91.4	32.8
20%	-40.1	22.6	363.0	356.6	124.5	17.2	53.4	0.6	-3.8	-0.6	73.6	62.0
30%	-47.3	78.8	874.0	316.4	81.8	13.4	48.8	65.9	-40.7	1.5	33.9	-25.7
40%	-18.8	389.7	850.7	186.8	37.6	7.6	32.5	54.5	-66.0	-26.0	76.3	24.3
50%	123.9	1,228.9	653.8	103.0	16.0	2.1	10.6	40.2	-31.7	7.8	7.6	145.0
60%	1,281.0	1,205.0	322.2	100.8	0.7	0.9	1.5	24.8	-23.2	26.9	15.7	896.5
70%	1,540.7	1,457.7	237.8	6.0	0.6	0.6	-0.7	5.9	18.1	36.5	22.1	1,090.7
80%	1,467.0	1,294.0	157.2	0.6	-0.7	-0.1	-1.3	-2.8	14.2	0.4	35.5	1,054.4
90%	1,192.3	405.2	52.1	0.0	-0.3	-0.2	-1.2	-1.6	-0.2	6.8	10.8	979.8
Long Term												
Full Simulation Period[b]	576.1	587.3	355.0	144.3	52.9	19.5	18.1	28.1	-8.6	8.2	34.4	446.4
Water Year Types[c]												
Wet (32%)	772.2	796.1	227.4	30.4	2.1	0.2	2.4	10.3	-10.0	14.2	12.0	939.1
Above Normal (16%)	359.7	462.3	424.0	125.4	18.2	0.5	6.2	27.7	-28.4	11.9	39.2	843.9
Below Normal (13%)	837.4	672.7	471.7	338.7	127.6	30.5	33.6	48.7	-57.8	15.4	72.2	32.5
Dry (24%)	561.0	594.9	454.6	231.7	74.5	20.8	24.8	29.1	-0.5	-14.2	43.5	37.5
Critical (15%)	171.7	179.4	284.0	87.3	95.8	69.7	39.4	46.9	47.2	22.2	28.0	9.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.22.2. Antioch, Monthly Chloride Concentration

No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,306.8	2,378.9	1,877.6	896.3	275.6	169.8	243.1	413.9	574.8	1,181.9	1,634.2	1,991.5
20%	2,029.7	1,951.0	1,489.9	724.0	142.6	98.4	110.6	306.3	508.7	950.6	1,390.3	1,853.0
30%	1,987.9	1,847.5	864.7	524.3	81.6	39.3	61.6	212.9	453.7	831.9	1,325.3	1,801.7
40%	1,902.8	1,463.3	712.0	300.6	51.8	27.3	32.1	88.2	381.6	596.4	1,070.0	1,654.6
50%	1,698.8	556.1	571.1	243.4	32.5	24.2	25.4	51.5	277.9	480.9	935.8	1,419.7
60%	504.0	474.1	466.9	72.5	27.6	22.7	22.9	30.9	227.7	321.5	875.4	590.5
70%	177.2	170.5	152.8	27.1	23.8	21.4	21.7	23.7	140.0	278.6	814.8	353.0
80%	162.3	143.4	74.7	23.1	21.6	20.1	20.9	21.2	65.8	251.3	751.3	326.8
90%	136.7	126.9	22.7	20.2	19.8	18.0	19.9	18.0	19.4	186.2	700.1	297.5
Long Term												
Full Simulation Period[b]	1,191.9	1,037.9	740.4	359.1	115.2	64.3	82.1	159.1	345.8	599.4	1,066.3	1,139.3
Water Year Types[c]												
Wet (32%)	788.6	570.4	198.8	62.0	25.3	21.1	21.4	26.7	109.7	212.5	749.2	304.4
Above Normal (16%)	1,556.8	1,108.7	623.9	160.1	33.0	22.1	23.0	37.7	224.5	305.3	770.2	589.2
Below Normal (13%)	810.0	761.1	727.9	396.3	116.1	66.4	74.2	141.5	362.7	509.0	950.8	1,575.6
Dry (24%)	1,287.5	1,230.9	1,063.7	557.0	161.5	67.1	86.0	187.1	408.4	887.7	1,344.1	1,790.2
Critical (15%)	1,860.9	1,906.5	1,513.1	854.5	321.3	197.1	278.6	546.6	869.0	1,358.8	1,716.9	2,059.1

Alternative 3

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,263.5	2,383.5	1,905.6	1,036.4	287.5	164.4	238.6	463.7	603.2	1,094.6	1,653.6	2,026.6
20%	2,029.1	2,019.2	1,843.4	846.5	144.7	101.1	148.0	328.2	527.8	950.8	1,466.8	1,897.7
30%	1,961.3	1,923.3	1,696.0	662.1	83.9	35.5	93.0	251.0	476.0	837.9	1,302.0	1,792.8
40%	1,887.4	1,875.6	1,442.8	352.8	48.3	26.9	53.0	161.4	396.4	556.5	1,075.1	1,622.3
50%	1,824.1	1,793.3	1,220.7	242.8	31.7	24.2	34.9	112.8	303.4	499.7	915.8	1,520.4
60%	1,752.5	1,700.4	788.5	95.7	27.2	22.6	24.3	69.9	242.0	330.2	873.4	1,455.8
70%	1,710.1	1,614.7	332.7	28.3	23.9	21.0	20.6	30.1	180.3	284.8	779.3	1,394.5
80%	1,636.5	1,409.1	234.3	23.5	21.3	19.8	19.5	18.8	99.5	263.0	765.0	1,355.0
90%	1,438.5	595.6	89.2	21.4	19.5	17.8	18.4	16.4	20.6	193.9	686.6	1,316.7
Long Term												
Full Simulation Period[b]	1,786.9	1,649.7	1,064.4	409.9	119.2	64.5	91.5	190.0	371.9	604.1	1,073.0	1,568.1
Water Year Types[c]												
Wet (32%)	1,550.8	1,384.8	410.3	73.6	24.6	21.2	23.4	43.0	128.1	221.3	731.2	1,232.1
Above Normal (16%)	1,985.9	1,594.9	982.2	200.1	31.7	21.0	27.7	70.3	235.7	311.9	784.4	1,418.3
Below Normal (13%)	1,677.7	1,465.7	1,202.6	512.9	126.9	69.1	97.2	197.0	404.0	514.3	944.1	1,525.3
Dry (24%)	1,850.8	1,852.8	1,501.1	624.9	158.7	66.5	97.8	222.1	439.1	871.8	1,365.7	1,819.3
Critical (15%)	2,076.6	2,113.1	1,716.3	913.2	346.3	198.1	292.6	578.5	906.0	1,385.8	1,756.4	2,079.1

Alternative 3 minus No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-43.3	4.6	28.0	140.1	12.0	-5.4	-4.6	49.8	28.4	-87.2	19.4	35.1
20%	-0.6	68.2	353.5	122.5	2.1	2.7	37.4	21.9	19.1	0.1	76.6	44.7
30%	-26.6	75.8	831.3	137.8	2.4	-3.8	31.4	38.1	22.3	6.0	-23.3	-8.9
40%	-15.4	412.3	730.8	52.3	-3.4	-0.4	20.9	73.1	14.8	-39.9	5.1	-32.3
50%	125.3	1,237.2	649.6	-0.7	-0.8	0.0	9.5	61.3	25.5	18.7	-20.0	100.7
60%	1,248.5	1,226.3	321.6	23.2	-0.4	-0.1	1.4	39.0	14.3	8.8	-2.0	865.4
70%	1,532.9	1,444.3	179.9	1.2	0.1	-0.3	-1.1	6.3	40.3	6.2	-35.5	1,041.5
80%	1,474.2	1,265.8	159.6	0.4	-0.3	-0.3	-1.4	-2.4	33.7	11.7	13.7	1,028.1
90%	1,301.8	468.7	66.5	1.3	-0.3	-0.2	-1.5	-1.6	1.3	7.8	-13.4	1,019.2
Long Term												
Full Simulation Period[b]	595.0	611.8	324.0	50.8	4.0	0.2	9.4	31.0	26.0	4.6	6.7	428.8
Water Year Types[c]												
Wet (32%)	762.2	814.4	211.5	11.6	-0.7	0.1	1.9	16.3	18.4	8.8	-18.0	927.6
Above Normal (16%)	429.1	486.3	358.3	40.0	-1.2	-1.2	4.7	32.6	11.1	6.7	14.2	829.1
Below Normal (13%)	867.7	704.6	474.7	116.7	10.8	2.7	23.0	55.4	41.3	5.3	-6.7	-50.3
Dry (24%)	563.3	621.9	437.4	67.9	-2.8	-0.7	11.8	35.0	30.7	-15.9	21.6	29.1
Critical (15%)	215.7	206.6	203.2	58.6	25.0	1.0	14.0	31.9	37.0	27.0	39.5	20.0

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.22.3. Antioch, Monthly Chloride Concentration

No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,306.8	2,378.9	1,877.6	896.3	275.6	169.8	243.1	413.9	574.8	1,181.9	1,634.2	1,991.5
20%	2,029.7	1,951.0	1,489.9	724.0	142.6	98.4	110.6	306.3	508.7	950.6	1,390.3	1,853.0
30%	1,987.9	1,847.5	864.7	524.3	81.6	39.3	61.6	212.9	453.7	831.9	1,325.3	1,801.7
40%	1,902.8	1,463.3	712.0	300.6	51.8	27.3	32.1	88.2	381.6	596.4	1,070.0	1,654.6
50%	1,698.8	556.1	571.1	243.4	32.5	24.2	25.4	51.5	277.9	480.9	935.8	1,419.7
60%	504.0	474.1	466.9	72.5	27.6	22.7	22.9	30.9	227.7	321.5	875.4	590.5
70%	177.2	170.5	152.8	27.1	23.8	21.4	21.7	23.7	140.0	278.6	814.8	353.0
80%	162.3	143.4	74.7	23.1	21.6	20.1	20.9	21.2	65.8	251.3	751.3	326.8
90%	136.7	126.9	22.7	20.2	19.8	18.0	19.9	18.0	19.4	186.2	700.1	297.5
Long Term												
Full Simulation Period[b]	1,191.9	1,037.9	740.4	359.1	115.2	64.3	82.1	159.1	345.8	599.4	1,066.3	1,139.3
Water Year Types[c]												
Wet (32%)	788.6	570.4	198.8	62.0	25.3	21.1	21.4	26.7	109.7	212.5	749.2	304.4
Above Normal (16%)	1,556.8	1,108.7	623.9	160.1	33.0	22.1	23.0	37.7	224.5	305.3	770.2	589.2
Below Normal (13%)	810.0	761.1	727.9	396.3	116.1	66.4	74.2	141.5	362.7	509.0	950.8	1,575.6
Dry (24%)	1,287.5	1,230.9	1,063.7	557.0	161.5	67.1	86.0	187.1	408.4	887.7	1,344.1	1,790.2
Critical (15%)	1,860.9	1,906.5	1,513.1	854.5	321.3	197.1	278.6	546.6	869.0	1,358.8	1,716.9	2,059.1

Alternative 5

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,318.4	2,329.0	1,880.5	894.9	283.0	171.2	180.5	305.6	542.6	1,168.9	1,645.8	2,019.5
20%	2,067.2	1,960.8	1,453.7	728.0	142.6	98.5	96.5	216.1	474.0	930.8	1,405.6	1,866.4
30%	1,996.2	1,845.5	867.0	525.0	85.1	39.5	51.0	157.7	436.7	824.4	1,346.1	1,814.0
40%	1,889.7	1,458.6	711.9	300.4	51.7	27.3	30.8	79.3	361.9	597.7	1,066.2	1,659.4
50%	1,662.8	554.9	572.7	243.2	32.5	24.2	25.5	45.9	268.8	482.3	930.9	1,386.6
60%	504.4	471.1	466.9	72.3	27.5	22.7	23.2	30.6	226.5	322.3	875.2	591.4
70%	175.4	170.6	162.5	27.2	23.7	21.3	21.8	23.7	141.9	281.2	809.1	355.0
80%	160.9	143.3	60.8	23.2	21.6	20.0	20.8	21.4	66.5	251.3	737.0	325.4
90%	136.6	126.3	22.5	20.2	19.8	18.1	19.9	18.0	19.4	189.6	691.9	297.5
Long Term												
Full Simulation Period[b]	1,190.8	1,034.6	742.1	365.7	119.4	64.8	68.8	128.1	326.1	592.7	1,063.4	1,138.9
Water Year Types[c]												
Wet (32%)	788.0	578.0	200.3	62.0	25.3	21.1	21.4	25.4	109.7	210.2	740.5	304.0
Above Normal (16%)	1,556.0	1,087.3	616.5	159.7	33.0	22.1	23.1	36.9	224.1	305.7	769.6	590.6
Below Normal (13%)	812.6	762.8	728.3	397.2	116.0	66.4	62.7	116.2	355.8	507.7	944.0	1,562.5
Dry (24%)	1,285.7	1,223.1	1,071.6	563.7	163.0	67.4	66.8	147.9	391.0	884.2	1,347.1	1,795.2
Critical (15%)	1,855.9	1,901.7	1,515.8	888.2	347.6	199.8	230.0	426.9	769.9	1,324.0	1,717.6	2,060.0

Alternative 5 minus No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	11.6	**-49.9**	2.9	**-1.4**	7.4	1.4	**-62.6**	**-108.3**	**-32.2**	**-13.0**	11.6	28.0
20%	37.6	9.9	**-36.2**	4.0	**0.0**	0.0	**-14.1**	**-90.2**	**-34.6**	**-19.9**	15.3	13.4
30%	8.2	**-2.0**	2.3	0.7	3.6	0.1	**-10.7**	**-55.2**	**-17.1**	**-7.5**	20.9	12.2
40%	**-13.1**	**-4.7**	**-0.1**	**-0.2**	**-0.1**	0.0	**-1.3**	**-8.9**	**-19.7**	1.2	**-3.8**	4.7
50%	**-35.9**	**-1.1**	1.6	**-0.2**	0.1	**0.0**	0.1	**-5.6**	**-9.1**	1.3	**-4.9**	**-33.1**
60%	0.4	**-3.0**	0.0	**-0.2**	**-0.1**	**0.0**	0.3	**-0.3**	**-1.2**	0.8	**-0.2**	0.9
70%	**-1.8**	0.1	9.7	0.1	**0.0**	**-0.1**	0.1	**0.0**	2.0	2.6	**-5.7**	2.0
80%	**-1.5**	**-0.1**	**-13.9**	0.1	**0.0**	**-0.1**	**0.0**	0.3	0.8	**0.0**	**-14.3**	**-1.5**
90%	**-0.1**	**-0.6**	**-0.2**	**0.0**	**0.0**	0.0	0.0	0.0	0.0	3.4	**-8.1**	**0.0**
Long Term												
Full Simulation Period[b]	**-1.1**	**-3.3**	1.7	6.6	4.2	0.5	**-13.3**	**-31.0**	**-19.8**	**-6.8**	**-2.9**	**-0.3**
Water Year Types[c]												
Wet (32%)	**-0.6**	7.6	1.5	0.0	0.0	**0.0**	**0.0**	**-1.3**	**0.0**	**-2.3**	**-8.7**	**-0.4**
Above Normal (16%)	**-0.8**	**-21.3**	**-7.4**	**-0.4**	**0.0**	0.0	0.1	**-0.8**	**-0.5**	0.4	**-0.6**	1.4
Below Normal (13%)	2.6	1.7	0.4	0.9	**-0.1**	**-0.1**	**-11.5**	**-25.3**	**-6.9**	**-1.3**	**-6.8**	**-13.1**
Dry (24%)	**-1.8**	**-7.7**	7.9	6.7	1.5	0.3	**-19.2**	**-39.2**	**-17.4**	**-3.5**	3.0	5.0
Critical (15%)	**-4.9**	**-4.8**	2.7	33.7	26.2	2.7	**-48.6**	**-119.7**	**-99.1**	**-34.8**	0.7	0.9

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.22.4. Antioch, Monthly Chloride Concentration

Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,265.0	2,355.0	1,907.3	1,272.0	492.3	269.2	293.5	441.8	585.2	1,185.7	1,725.6	2,024.3
20%	1,989.6	1,973.6	1,852.9	1,080.6	267.2	115.6	164.1	306.8	504.9	950.1	1,463.9	1,915.1
30%	1,940.6	1,926.3	1,738.7	840.7	163.3	52.8	110.4	278.8	413.0	833.4	1,359.2	1,776.1
40%	1,883.9	1,853.0	1,562.7	487.3	89.4	34.9	64.6	142.7	315.6	570.4	1,146.3	1,678.9
50%	1,822.7	1,785.0	1,224.9	346.5	48.4	26.3	36.1	91.7	246.1	488.7	943.4	1,564.7
60%	1,785.1	1,679.0	789.1	173.4	28.3	23.6	24.3	55.6	204.4	348.3	891.2	1,486.9
70%	1,717.9	1,628.2	390.6	33.1	24.3	22.0	21.0	29.6	158.1	315.1	836.9	1,443.8
80%	1,629.3	1,437.3	231.9	23.7	20.9	20.0	19.6	18.4	79.9	251.7	786.8	1,381.2
90%	1,329.1	532.1	74.8	20.2	19.5	17.9	18.7	16.4	19.2	193.0	710.8	1,277.3
Long Term												
Full Simulation Period[b]	1,768.0	1,625.2	1,095.5	503.4	168.1	83.8	100.2	187.2	337.2	607.7	1,100.7	1,585.7
Water Year Types[c]												
Wet (32%)	1,560.8	1,366.5	426.2	92.4	27.4	21.2	23.8	37.0	99.7	226.7	761.2	1,243.5
Above Normal (16%)	1,916.5	1,571.0	1,047.8	285.6	51.2	22.6	29.2	65.4	196.2	317.2	809.4	1,433.2
Below Normal (13%)	1,647.4	1,433.8	1,199.6	735.0	243.8	96.9	107.8	190.2	304.9	524.4	1,023.0	1,608.1
Dry (24%)	1,848.5	1,825.8	1,518.3	788.7	236.1	88.0	110.8	216.2	408.0	873.5	1,387.6	1,827.7
Critical (15%)	2,032.6	2,085.8	1,797.1	941.8	417.1	266.8	318.1	593.5	916.2	1,381.0	1,744.9	2,068.3

No Action Alternative

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,306.8	2,378.9	1,877.6	896.3	275.6	169.8	243.1	413.9	574.8	1,181.9	1,634.2	1,991.5
20%	2,029.7	1,951.0	1,489.9	724.0	142.6	98.4	110.6	306.3	508.7	950.6	1,390.3	1,853.0
30%	1,987.9	1,847.5	864.7	524.3	81.6	39.3	61.6	212.9	453.7	831.9	1,325.3	1,801.7
40%	1,902.8	1,463.3	712.0	300.6	51.8	27.3	32.1	88.2	381.6	596.4	1,070.0	1,654.6
50%	1,698.8	556.1	571.1	243.4	32.5	24.2	25.4	51.5	277.9	480.9	935.8	1,419.7
60%	504.0	474.1	466.9	72.5	27.6	22.7	22.9	30.9	227.7	321.5	875.4	590.5
70%	177.2	170.5	152.8	27.1	23.8	21.4	21.7	23.7	140.0	278.6	814.8	353.0
80%	162.3	143.4	74.7	23.1	21.6	20.1	20.9	21.2	65.8	251.3	751.3	326.8
90%	136.7	126.9	22.7	20.2	19.8	18.0	19.9	18.0	19.4	186.2	700.1	297.5
Long Term												
Full Simulation Period[b]	1,191.9	1,037.9	740.4	359.1	115.2	64.3	82.1	159.1	345.8	599.4	1,066.3	1,139.3
Water Year Types[c]												
Wet (32%)	788.6	570.4	198.8	62.0	25.3	21.1	21.4	26.7	109.7	212.5	749.2	304.4
Above Normal (16%)	1,556.8	1,108.7	623.9	160.1	33.0	22.1	23.0	37.7	224.5	305.3	770.2	589.2
Below Normal (13%)	810.0	761.1	727.9	396.3	116.1	66.4	74.2	141.5	362.7	509.0	950.8	1,575.6
Dry (24%)	1,287.5	1,230.9	1,063.7	557.0	161.5	67.1	86.0	187.1	408.4	887.7	1,344.1	1,790.2
Critical (15%)	1,860.9	1,906.5	1,513.1	854.5	321.3	197.1	278.6	546.6	869.0	1,358.8	1,716.9	2,059.1

No Action Alternative minus Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	41.8	23.9	-29.8	-375.7	-216.7	-99.4	-50.4	-27.9	-10.3	-3.8	-91.4	-32.8
20%	40.1	-22.6	-363.0	-356.6	-124.5	-17.2	-53.4	-0.6	3.8	0.6	-73.6	-62.0
30%	47.3	-78.8	-874.0	-316.4	-81.8	-13.4	-48.8	-65.9	40.7	-1.5	-33.9	25.7
40%	18.8	-389.7	-850.7	-186.8	-37.6	-7.6	-32.5	-54.5	66.0	26.0	-76.3	-24.3
50%	-123.9	-1,228.9	-653.8	-103.0	-16.0	-2.1	-10.6	-40.2	31.7	-7.8	-7.6	-145.0
60%	-1,281.0	-1,205.0	-322.2	-100.8	-0.7	-0.9	-1.5	-24.8	23.2	-26.9	-15.7	-896.5
70%	-1,540.7	-1,457.7	-237.8	-6.0	-0.6	-0.6	0.7	-5.9	-18.1	-36.5	-22.1	-1,090.7
80%	-1,467.0	-1,294.0	-157.2	-0.6	0.7	0.1	1.3	2.8	-14.2	-0.4	-35.5	-1,054.4
90%	-1,192.3	-405.2	-52.1	0.0	0.3	0.2	1.2	1.6	0.2	-6.8	-10.8	-979.8
Long Term												
Full Simulation Period[b]	-576.1	-587.3	-355.0	-144.3	-52.9	-19.5	-18.1	-28.1	8.6	-8.2	-34.4	-446.4
Water Year Types[c]												
Wet (32%)	-772.2	-796.1	-227.4	-30.4	-2.1	-0.2	-2.4	-10.3	10.0	-14.2	-12.0	-939.1
Above Normal (16%)	-359.7	-462.3	-424.0	-125.4	-18.2	-0.5	-6.2	-27.7	28.4	-11.9	-39.2	-843.9
Below Normal (13%)	-837.4	-672.7	-471.7	-338.7	-127.6	-30.5	-33.6	-48.7	57.8	-15.4	-72.2	-32.5
Dry (24%)	-561.0	-594.9	-454.6	-231.7	-74.5	-20.8	-24.8	-29.1	0.5	14.2	-43.5	-37.5
Critical (15%)	-171.7	-179.4	-284.0	-87.3	-95.8	-69.7	-39.4	-46.9	-47.2	-22.2	-28.0	-9.2

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.22.5. Antioch, Monthly Chloride Concentration

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	2,265.0	2,355.0	1,907.3	1,272.0	492.3	269.2	293.5	441.8	585.2	1,185.7	1,725.6	2,024.3
20%	1,989.6	1,973.6	1,852.9	1,080.6	267.2	115.6	164.1	306.8	504.9	950.1	1,463.9	1,915.1
30%	1,940.6	1,926.3	1,738.7	840.7	163.3	52.8	110.4	278.8	413.0	833.4	1,359.2	1,776.1
40%	1,883.9	1,853.0	1,562.7	487.3	89.4	34.9	64.6	142.7	315.6	570.4	1,146.3	1,678.9
50%	1,822.7	1,785.0	1,224.9	346.5	48.4	26.3	36.1	91.7	246.1	488.7	943.4	1,564.7
60%	1,785.1	1,679.0	789.1	173.4	28.3	23.6	24.3	55.6	204.4	348.3	891.2	1,486.9
70%	1,717.9	1,628.2	390.6	33.1	24.3	22.0	21.0	29.6	158.1	315.1	836.9	1,443.8
80%	1,629.3	1,437.3	231.9	23.7	20.9	20.0	19.6	18.4	79.9	251.7	786.8	1,381.2
90%	1,329.1	532.1	74.8	20.2	19.5	17.9	18.7	16.4	19.2	193.0	710.8	1,277.3
Long Term												
Full Simulation Period[b]	1,768.0	1,625.2	1,095.5	503.4	168.1	83.8	100.2	187.2	337.2	607.7	1,100.7	1,585.7
Water Year Types[c]												
Wet (32%)	1,560.8	1,366.5	426.2	92.4	27.4	21.2	23.8	37.0	99.7	226.7	761.2	1,243.5
Above Normal (16%)	1,916.5	1,571.0	1,047.8	285.6	51.2	22.6	29.2	65.4	196.2	317.2	809.4	1,433.2
Below Normal (13%)	1,647.4	1,433.8	1,199.6	735.0	243.8	96.9	107.8	190.2	304.9	524.4	1,023.0	1,608.1
Dry (24%)	1,848.5	1,825.8	1,518.3	788.7	236.1	88.0	110.8	216.2	408.0	873.5	1,387.6	1,827.7
Critical (15%)	2,032.6	2,085.8	1,797.1	941.8	417.1	266.8	318.1	593.5	916.2	1,381.0	1,744.9	2,068.3

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	2,263.5	2,383.5	1,905.6	1,036.4	287.5	164.4	238.6	463.7	603.2	1,094.6	1,653.6	2,026.6
20%	2,029.1	2,019.2	1,843.4	846.5	144.7	101.1	148.0	328.2	527.8	950.8	1,466.8	1,897.7
30%	1,961.3	1,923.3	1,696.0	662.1	83.9	35.5	93.0	251.0	476.0	837.9	1,302.0	1,792.8
40%	1,887.4	1,875.6	1,442.8	352.8	48.3	26.9	53.0	161.4	396.4	556.5	1,075.1	1,622.3
50%	1,824.1	1,793.3	1,220.7	242.8	31.7	24.2	34.9	112.8	303.4	499.7	915.8	1,520.4
60%	1,752.5	1,700.4	788.5	95.7	27.2	22.6	24.3	69.9	242.0	330.2	873.4	1,455.8
70%	1,710.1	1,614.7	332.7	28.3	23.9	21.0	20.6	30.1	180.3	284.8	779.3	1,394.5
80%	1,636.5	1,409.1	234.3	23.5	21.3	19.8	19.5	18.8	99.5	263.0	765.0	1,355.0
90%	1,438.5	595.6	89.2	21.4	19.5	17.8	18.4	16.4	20.6	193.9	686.6	1,316.7
Long Term												
Full Simulation Period[b]	1,786.9	1,649.7	1,064.4	409.9	119.2	64.5	91.5	190.0	371.9	604.1	1,073.0	1,568.1
Water Year Types[c]												
Wet (32%)	1,550.8	1,384.8	410.3	73.6	24.6	21.2	23.4	43.0	128.1	221.3	731.2	1,232.1
Above Normal (16%)	1,985.9	1,594.9	982.2	200.1	31.7	21.0	27.7	70.3	235.7	311.9	784.4	1,418.3
Below Normal (13%)	1,677.7	1,465.7	1,202.6	512.9	126.9	69.1	97.2	197.0	404.0	514.3	944.1	1,525.3
Dry (24%)	1,850.8	1,852.8	1,501.1	624.9	158.7	66.5	97.8	222.1	439.1	871.8	1,365.7	1,819.3
Critical (15%)	2,076.6	2,113.1	1,716.3	913.2	346.3	198.1	292.6	578.5	906.0	1,385.8	1,756.4	2,079.1

Alternative 3 minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Chloride Concentration (mg/L)											
Probability of Exceedance[a]												
10%	-1.5	28.5	-1.8	-235.6	-204.8	-104.8	-54.9	21.9	18.1	-91.1	-72.0	2.3
20%	39.5	45.6	-9.5	-234.1	-122.4	-14.5	-16.0	21.4	22.9	0.7	3.0	-17.4
30%	20.7	-3.0	-42.7	-178.6	-79.4	-17.2	-17.4	-27.7	63.0	4.5	-57.2	16.8
40%	3.5	22.6	-119.9	-134.5	-41.1	-8.1	-11.6	18.7	80.8	-13.9	-71.2	-56.6
50%	1.4	8.3	-4.2	-103.7	-16.7	-2.0	-1.1	21.1	57.3	11.0	-27.6	-44.3
60%	-32.5	21.4	-0.6	-77.7	-1.1	-1.0	0.0	14.3	37.5	-18.1	-17.8	-31.1
70%	-7.8	-13.4	-58.0	-4.8	-0.4	-0.9	-0.3	0.4	22.2	-30.3	-57.6	-49.3
80%	7.2	-28.2	2.4	-0.2	0.4	-0.2	-0.1	0.4	19.6	11.3	-21.8	-26.3
90%	109.5	63.5	14.4	1.2	0.0	0.0	-0.3	-0.1	1.5	0.9	-24.2	39.4
Long Term												
Full Simulation Period[b]	18.9	24.5	-31.1	-93.5	-48.9	-19.3	-8.7	2.8	34.7	-3.6	-27.7	-17.6
Water Year Types[c]												
Wet (32%)	-10.0	18.3	-15.9	-18.8	-2.9	-0.1	-0.4	6.0	28.4	-5.4	-30.0	-11.5
Above Normal (16%)	69.4	23.9	-65.6	-85.5	-19.4	-1.7	-1.5	4.9	39.5	-5.2	-25.0	-14.9
Below Normal (13%)	30.3	31.9	3.0	-222.1	-116.9	-27.8	-10.6	6.7	99.1	-10.0	-78.9	-82.8
Dry (24%)	2.3	27.0	-17.2	-163.9	-77.4	-21.5	-13.0	5.9	31.2	-1.7	-21.9	-8.4
Critical (15%)	44.0	27.3	-80.8	-28.6	-70.8	-68.7	-25.4	-15.0	-10.3	4.8	11.5	10.7

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.22.6. Antioch, Monthly Chloride Concentration

Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,265.0	2,355.0	1,907.3	1,272.0	492.3	269.2	293.5	441.8	585.2	1,185.7	1,725.6	2,024.3
20%	1,989.6	1,973.6	1,852.9	1,080.6	267.2	115.6	164.1	306.8	504.9	950.1	1,463.9	1,915.1
30%	1,940.6	1,926.3	1,738.7	840.7	163.3	52.8	110.4	278.8	413.0	833.4	1,359.2	1,776.1
40%	1,883.9	1,853.0	1,562.7	487.3	89.4	34.9	64.6	142.7	315.6	570.4	1,146.3	1,678.9
50%	1,822.7	1,785.0	1,224.9	346.5	48.4	26.3	36.1	91.7	246.1	488.7	943.4	1,564.7
60%	1,785.1	1,679.0	789.1	173.4	28.3	23.6	24.3	55.6	204.4	348.3	891.2	1,486.9
70%	1,717.9	1,628.2	390.6	33.1	24.3	22.0	21.0	29.6	158.1	315.1	836.9	1,443.8
80%	1,629.3	1,437.3	231.9	23.7	20.9	20.0	19.6	18.4	79.9	251.7	786.8	1,381.2
90%	1,329.1	532.1	74.8	20.2	19.5	17.9	18.7	16.4	19.2	193.0	710.8	1,277.3
Long Term												
Full Simulation Period[b]	1,768.0	1,625.2	1,095.5	503.4	168.1	83.8	100.2	187.2	337.2	607.7	1,100.7	1,585.7
Water Year Types[c]												
Wet (32%)	1,560.8	1,366.5	426.2	92.4	27.4	21.2	23.8	37.0	99.7	226.7	761.2	1,243.5
Above Normal (16%)	1,916.5	1,571.0	1,047.8	285.6	51.2	22.6	29.2	65.4	196.2	317.2	809.4	1,433.2
Below Normal (13%)	1,647.4	1,433.8	1,199.6	735.0	243.8	96.9	107.8	190.2	304.9	524.4	1,023.0	1,608.1
Dry (24%)	1,848.5	1,825.8	1,518.3	788.7	236.1	88.0	110.8	216.2	408.0	873.5	1,387.6	1,827.7
Critical (15%)	2,032.6	2,085.8	1,797.1	941.8	417.1	266.8	318.1	593.5	916.2	1,381.0	1,744.9	2,068.3

Alternative 5

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	2,318.4	2,329.0	1,880.5	894.9	283.0	171.2	180.5	305.6	542.6	1,168.9	1,645.8	2,019.5
20%	2,067.2	1,960.8	1,453.7	728.0	142.6	98.5	96.5	216.1	474.0	930.8	1,405.6	1,866.4
30%	1,996.2	1,845.5	867.0	525.0	85.1	39.5	51.0	157.7	436.7	824.4	1,346.1	1,814.0
40%	1,889.7	1,458.6	711.9	300.4	51.7	27.3	30.8	79.3	361.9	597.7	1,066.2	1,659.4
50%	1,662.8	554.9	572.7	243.2	32.5	24.2	25.5	45.9	268.8	482.3	930.9	1,386.6
60%	504.4	471.1	466.9	72.3	27.5	22.7	23.2	30.6	226.5	322.3	875.2	591.4
70%	175.4	170.6	162.5	27.2	23.7	21.3	21.8	23.7	141.9	281.2	809.1	355.0
80%	160.9	143.3	60.8	23.2	21.6	20.0	20.8	21.4	66.5	251.3	737.0	325.4
90%	136.6	126.3	22.5	20.2	19.8	18.1	19.9	18.0	19.4	189.6	691.9	297.5
Long Term												
Full Simulation Period[b]	1,190.8	1,034.6	742.1	365.7	119.4	64.8	68.8	128.1	326.1	592.7	1,063.4	1,138.9
Water Year Types[c]												
Wet (32%)	788.0	578.0	200.3	62.0	25.3	21.1	21.4	25.4	109.7	210.2	740.5	304.0
Above Normal (16%)	1,556.0	1,087.3	616.5	159.7	33.0	22.1	23.1	36.9	224.1	305.7	769.6	590.6
Below Normal (13%)	812.6	762.8	728.3	397.2	116.0	66.4	62.7	116.2	355.8	507.7	944.0	1,562.5
Dry (24%)	1,285.7	1,223.1	1,071.6	563.7	163.0	67.4	66.8	147.9	391.0	884.2	1,347.1	1,795.2
Critical (15%)	1,855.9	1,901.7	1,515.8	888.2	347.6	199.8	230.0	426.9	769.9	1,324.0	1,717.6	2,060.0

Alternative 5 minus Second Basis of Comparison

	Monthly Chloride Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	53.4	-26.0	-26.9	-377.1	-209.3	-98.0	-113.0	-136.2	-42.6	-16.8	-79.8	-4.8
20%	77.7	-12.7	-399.2	-352.6	-124.6	-17.2	-67.5	-90.8	-30.9	-19.3	-58.3	-48.6
30%	55.5	-80.8	-871.7	-315.7	-78.2	-13.3	-59.4	-121.1	23.6	-9.0	-13.1	37.9
40%	5.7	-394.4	-850.8	-186.9	-37.7	-7.6	-33.9	-63.3	46.3	27.3	-80.1	-19.6
50%	-159.8	-1,230.1	-652.2	-103.3	-15.9	-2.1	-10.6	-45.8	22.7	-6.5	-12.5	-178.1
60%	-1,280.7	-1,207.9	-322.2	-101.1	-0.8	-0.9	-1.2	-25.1	22.0	-26.0	-16.0	-895.5
70%	-1,542.5	-1,457.6	-228.1	-5.9	-0.6	-0.7	0.8	-5.9	-16.1	-33.9	-27.8	-1,088.7
80%	-1,468.4	-1,294.0	-171.1	-0.5	0.7	0.0	1.3	3.1	-13.4	-0.4	-49.7	-1,055.9
90%	-1,192.4	-405.8	-52.2	-0.1	0.3	0.2	1.2	1.6	0.2	-3.5	-18.9	-979.8
Long Term												
Full Simulation Period[b]	-577.3	-590.6	-353.3	-137.6	-48.7	-19.1	-31.4	-59.1	-11.1	-15.0	-37.3	-446.8
Water Year Types[c]												
Wet (32%)	-772.7	-788.4	-225.9	-30.4	-2.1	-0.2	-2.4	-11.5	10.0	-16.5	-20.7	-939.5
Above Normal (16%)	-360.5	-483.7	-431.3	-125.9	-18.2	-0.5	-6.1	-28.5	27.9	-11.5	-39.8	-842.6
Below Normal (13%)	-834.8	-671.0	-471.3	-337.8	-127.8	-30.6	-45.1	-74.0	51.0	-16.6	-79.1	-45.6
Dry (24%)	-562.8	-602.6	-446.7	-225.0	-73.1	-20.6	-44.0	-68.3	-17.0	10.7	-40.5	-32.5
Critical (15%)	-176.7	-184.1	-281.3	-53.5	-69.5	-67.1	-88.1	-166.6	-146.3	-57.0	-27.3	-8.4

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.23. Jones Pumping Plant Bromide Concentration

Table 6E.B.23.1. Jones Pumping Plant, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.50	0.55	0.58	0.55	0.44	0.28	0.21	0.19	0.16	0.25	0.36	0.43
20%	0.47	0.46	0.52	0.51	0.29	0.23	0.18	0.18	0.14	0.19	0.32	0.41
30%	0.45	0.41	0.48	0.46	0.24	0.21	0.15	0.16	0.13	0.17	0.29	0.37
40%	0.42	0.39	0.43	0.42	0.23	0.19	0.14	0.14	0.12	0.13	0.25	0.35
50%	0.39	0.34	0.32	0.39	0.21	0.18	0.11	0.12	0.12	0.12	0.23	0.33
60%	0.20	0.16	0.17	0.26	0.18	0.14	0.10	0.11	0.12	0.11	0.20	0.31
70%	0.12	0.11	0.15	0.20	0.16	0.11	0.09	0.11	0.11	0.10	0.18	0.29
80%	0.11	0.10	0.14	0.17	0.13	0.09	0.08	0.09	0.11	0.10	0.17	0.27
90%	0.11	0.10	0.13	0.14	0.09	0.08	0.06	0.05	0.10	0.09	0.09	0.25
Long Term												
Full Simulation Period[b]	0.30	0.30	0.33	0.34	0.23	0.17	0.13	0.13	0.12	0.15	0.24	0.33
Water Year Types[c]												
Wet (32%)	0.25	0.22	0.22	0.19	0.13	0.10	0.07	0.08	0.10	0.10	0.14	0.26
Above Normal (16%)	0.38	0.36	0.34	0.33	0.19	0.14	0.10	0.11	0.12	0.10	0.18	0.26
Below Normal (13%)	0.25	0.22	0.28	0.37	0.23	0.18	0.13	0.14	0.12	0.14	0.23	0.38
Dry (24%)	0.30	0.31	0.38	0.44	0.29	0.21	0.16	0.16	0.13	0.19	0.32	0.37
Critical (15%)	0.41	0.44	0.49	0.50	0.38	0.28	0.21	0.19	0.15	0.25	0.36	0.43

Alternative 1

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.51	0.56	0.58	0.57	0.50	0.31	0.17	0.15	0.15	0.23	0.33	0.44
20%	0.49	0.48	0.53	0.52	0.44	0.21	0.16	0.13	0.14	0.17	0.29	0.41
30%	0.47	0.45	0.51	0.49	0.29	0.18	0.13	0.12	0.12	0.15	0.27	0.39
40%	0.46	0.43	0.48	0.48	0.20	0.17	0.12	0.11	0.11	0.12	0.25	0.36
50%	0.45	0.41	0.47	0.45	0.18	0.15	0.11	0.10	0.11	0.11	0.22	0.36
60%	0.43	0.39	0.45	0.26	0.16	0.13	0.09	0.09	0.10	0.10	0.19	0.35
70%	0.42	0.37	0.41	0.17	0.14	0.11	0.09	0.09	0.10	0.10	0.18	0.34
80%	0.40	0.35	0.33	0.15	0.12	0.09	0.08	0.08	0.10	0.09	0.16	0.32
90%	0.34	0.28	0.14	0.14	0.09	0.08	0.06	0.05	0.08	0.08	0.10	0.28
Long Term												
Full Simulation Period[b]	0.43	0.41	0.43	0.36	0.25	0.17	0.12	0.10	0.12	0.14	0.22	0.35
Water Year Types[c]												
Wet (32%)	0.39	0.36	0.33	0.19	0.12	0.10	0.07	0.07	0.10	0.10	0.14	0.29
Above Normal (16%)	0.47	0.43	0.41	0.35	0.19	0.13	0.09	0.09	0.11	0.10	0.17	0.36
Below Normal (13%)	0.40	0.37	0.42	0.41	0.28	0.21	0.12	0.11	0.10	0.14	0.23	0.36
Dry (24%)	0.44	0.42	0.49	0.45	0.33	0.20	0.13	0.12	0.12	0.15	0.28	0.38
Critical (15%)	0.49	0.50	0.55	0.52	0.42	0.28	0.21	0.15	0.21	0.24	0.35	0.44

Alternative 1 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.02	0.00	0.00	0.02	0.07	0.03	-0.04	-0.04	0.00	-0.02	-0.03	0.01
20%	0.02	0.02	0.01	0.01	0.15	-0.02	-0.03	-0.05	0.00	-0.02	-0.03	0.00
30%	0.02	0.03	0.03	0.04	0.05	-0.03	-0.02	-0.04	-0.01	-0.03	-0.02	0.01
40%	0.04	0.03	0.06	0.05	-0.03	-0.03	-0.02	-0.04	-0.01	-0.01	0.00	0.01
50%	0.06	0.07	0.15	0.06	-0.02	-0.02	-0.01	-0.02	-0.01	-0.01	-0.01	0.03
60%	0.23	0.24	0.28	0.00	-0.02	0.00	0.00	-0.02	-0.01	-0.01	0.00	0.04
70%	0.30	0.26	0.26	-0.03	-0.02	0.00	0.00	-0.02	-0.01	-0.01	0.00	0.04
80%	0.29	0.25	0.20	-0.02	-0.01	0.00	0.00	-0.01	-0.01	0.00	-0.01	0.05
90%	0.23	0.19	0.00	-0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.01	0.03
Long Term												
Full Simulation Period[b]	0.13	0.11	0.10	0.01	0.02	0.00	-0.01	-0.02	0.00	-0.01	-0.01	0.02
Water Year Types[c]												
Wet (32%)	0.14	0.15	0.11	0.00	-0.01	0.00	0.00	-0.01	-0.01	0.00	-0.01	0.02
Above Normal (16%)	0.09	0.07	0.07	0.01	-0.01	-0.01	-0.01	-0.02	-0.01	-0.01	0.00	0.10
Below Normal (13%)	0.15	0.15	0.14	0.04	0.05	0.04	-0.01	-0.03	-0.02	0.00	0.00	-0.02
Dry (24%)	0.15	0.11	0.11	0.01	0.03	-0.01	-0.02	-0.04	-0.01	-0.04	-0.03	0.01
Critical (15%)	0.08	0.06	0.05	0.02	0.04	0.00	0.00	-0.04	0.06	0.00	-0.01	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.23.2. Jones Pumping Plant, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.50	0.55	0.58	0.55	0.44	0.28	0.21	0.19	0.16	0.25	0.36	0.43
20%	0.47	0.46	0.52	0.51	0.29	0.23	0.18	0.18	0.14	0.19	0.32	0.41
30%	0.45	0.41	0.48	0.46	0.24	0.21	0.15	0.16	0.13	0.17	0.29	0.37
40%	0.42	0.39	0.43	0.42	0.23	0.19	0.14	0.14	0.12	0.13	0.25	0.35
50%	0.39	0.34	0.32	0.39	0.21	0.18	0.11	0.12	0.12	0.12	0.23	0.33
60%	0.20	0.16	0.17	0.26	0.18	0.14	0.10	0.11	0.12	0.11	0.20	0.31
70%	0.12	0.11	0.15	0.20	0.16	0.11	0.09	0.11	0.11	0.10	0.18	0.29
80%	0.11	0.10	0.14	0.17	0.13	0.09	0.08	0.09	0.11	0.10	0.17	0.27
90%	0.11	0.10	0.13	0.14	0.09	0.08	0.06	0.05	0.10	0.09	0.09	0.25
Long Term												
Full Simulation Period[b]	0.30	0.30	0.33	0.34	0.23	0.17	0.13	0.13	0.12	0.15	0.24	0.33
Water Year Types[c]												
Wet (32%)	0.25	0.22	0.22	0.19	0.13	0.10	0.07	0.08	0.10	0.10	0.14	0.26
Above Normal (16%)	0.38	0.36	0.34	0.33	0.19	0.14	0.10	0.11	0.12	0.10	0.18	0.26
Below Normal (13%)	0.25	0.22	0.28	0.37	0.23	0.18	0.13	0.14	0.12	0.14	0.23	0.38
Dry (24%)	0.30	0.31	0.38	0.44	0.29	0.21	0.16	0.16	0.13	0.19	0.32	0.37
Critical (15%)	0.41	0.44	0.49	0.50	0.38	0.28	0.21	0.19	0.15	0.25	0.36	0.43

Alternative 3

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.51	0.55	0.58	0.56	0.47	0.27	0.21	0.19	0.15	0.26	0.37	0.44
20%	0.49	0.48	0.53	0.53	0.29	0.23	0.17	0.17	0.12	0.19	0.31	0.41
30%	0.48	0.44	0.50	0.51	0.24	0.21	0.15	0.15	0.12	0.17	0.28	0.39
40%	0.46	0.42	0.49	0.48	0.22	0.19	0.12	0.13	0.11	0.13	0.25	0.37
50%	0.44	0.41	0.47	0.46	0.20	0.16	0.11	0.11	0.11	0.12	0.23	0.36
60%	0.43	0.40	0.45	0.25	0.17	0.14	0.09	0.10	0.10	0.11	0.19	0.35
70%	0.41	0.39	0.41	0.20	0.15	0.11	0.09	0.10	0.10	0.10	0.18	0.33
80%	0.40	0.36	0.33	0.16	0.12	0.09	0.07	0.09	0.09	0.10	0.11	0.32
90%	0.34	0.30	0.14	0.14	0.09	0.08	0.06	0.05	0.08	0.09	0.09	0.26
Long Term												
Full Simulation Period[b]	0.43	0.41	0.43	0.37	0.23	0.17	0.12	0.12	0.12	0.15	0.23	0.35
Water Year Types[c]												
Wet (32%)	0.38	0.37	0.34	0.21	0.12	0.10	0.07	0.07	0.09	0.10	0.13	0.27
Above Normal (16%)	0.48	0.45	0.42	0.37	0.20	0.14	0.10	0.10	0.10	0.10	0.17	0.36
Below Normal (13%)	0.40	0.36	0.43	0.42	0.25	0.17	0.13	0.14	0.10	0.15	0.24	0.39
Dry (24%)	0.44	0.43	0.49	0.46	0.28	0.21	0.15	0.15	0.11	0.18	0.30	0.38
Critical (15%)	0.49	0.50	0.53	0.49	0.40	0.31	0.21	0.19	0.20	0.25	0.36	0.44

Alternative 3 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.02	0.00	0.00	0.01	0.03	0.00	0.00	0.01	-0.01	0.01	0.01	0.01
20%	0.02	0.02	0.01	0.02	0.00	0.00	-0.01	-0.01	-0.01	0.00	0.00	0.01
30%	0.03	0.03	0.02	0.05	0.00	0.00	0.00	-0.01	-0.01	0.00	-0.01	0.02
40%	0.04	0.03	0.06	0.06	-0.01	0.00	-0.02	-0.01	-0.01	0.01	0.00	0.02
50%	0.05	0.07	0.15	0.06	0.00	-0.01	0.00	-0.01	-0.01	0.00	0.00	0.03
60%	0.22	0.24	0.28	-0.01	-0.01	0.01	0.00	-0.01	-0.01	0.00	0.00	0.04
70%	0.30	0.27	0.27	0.01	-0.01	0.00	0.00	-0.01	-0.01	0.00	0.00	0.04
80%	0.29	0.26	0.19	-0.01	-0.01	0.00	0.00	0.00	-0.01	0.00	-0.06	0.05
90%	0.23	0.20	0.01	-0.01	-0.01	0.00	0.00	0.00	-0.02	0.00	0.00	0.01
Long Term												
Full Simulation Period[b]	0.13	0.12	0.10	0.02	0.00	0.00	0.00	0.00	-0.01	0.00	-0.01	0.02
Water Year Types[c]												
Wet (32%)	0.14	0.15	0.12	0.02	-0.01	0.00	0.00	-0.01	-0.01	0.00	-0.02	0.01
Above Normal (16%)	0.10	0.08	0.08	0.03	0.01	-0.01	-0.01	-0.01	-0.02	0.00	0.00	0.10
Below Normal (13%)	0.15	0.14	0.14	0.05	0.02	-0.01	0.00	0.00	-0.02	0.01	0.01	0.01
Dry (24%)	0.14	0.12	0.11	0.02	-0.01	0.00	0.00	0.00	-0.02	0.00	-0.02	0.01
Critical (15%)	0.08	0.06	0.03	-0.01	0.02	0.03	0.00	0.00	0.05	0.00	0.00	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.23.3. Jones Pumping Plant, Monthly Bromide Concentration

No Action Alternative

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.50	0.55	0.58	0.55	0.44	0.28	0.21	0.19	0.16	0.25	0.36	0.43
20%	0.47	0.46	0.52	0.51	0.29	0.23	0.18	0.18	0.14	0.19	0.32	0.41
30%	0.45	0.41	0.48	0.46	0.24	0.21	0.15	0.16	0.13	0.17	0.29	0.37
40%	0.42	0.39	0.43	0.42	0.23	0.19	0.14	0.14	0.12	0.13	0.25	0.35
50%	0.39	0.34	0.32	0.39	0.21	0.18	0.11	0.12	0.12	0.12	0.23	0.33
60%	0.20	0.16	0.17	0.26	0.18	0.14	0.10	0.11	0.12	0.11	0.20	0.31
70%	0.12	0.11	0.15	0.20	0.16	0.11	0.09	0.11	0.11	0.10	0.18	0.29
80%	0.11	0.10	0.14	0.17	0.13	0.09	0.08	0.09	0.11	0.10	0.17	0.27
90%	0.11	0.10	0.13	0.14	0.09	0.08	0.06	0.05	0.10	0.09	0.09	0.25
Long Term												
Full Simulation Period[b]	0.30	0.30	0.33	0.34	0.23	0.17	0.13	0.13	0.12	0.15	0.24	0.33
Water Year Types[c]												
Wet (32%)	0.25	0.22	0.22	0.19	0.13	0.10	0.07	0.08	0.10	0.10	0.14	0.26
Above Normal (16%)	0.38	0.36	0.34	0.33	0.19	0.14	0.10	0.11	0.12	0.10	0.18	0.26
Below Normal (13%)	0.25	0.22	0.28	0.37	0.23	0.18	0.13	0.14	0.12	0.14	0.23	0.38
Dry (24%)	0.30	0.31	0.38	0.44	0.29	0.21	0.16	0.16	0.13	0.19	0.32	0.37
Critical (15%)	0.41	0.44	0.49	0.50	0.38	0.28	0.21	0.19	0.15	0.25	0.36	0.43

Alternative 5

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.52	0.55	0.58	0.55	0.46	0.28	0.21	0.18	0.18	0.24	0.37	0.43
20%	0.47	0.48	0.52	0.51	0.30	0.23	0.18	0.18	0.15	0.21	0.33	0.41
30%	0.44	0.42	0.49	0.46	0.24	0.21	0.15	0.16	0.14	0.18	0.30	0.39
40%	0.43	0.40	0.43	0.43	0.23	0.19	0.13	0.14	0.13	0.13	0.25	0.36
50%	0.39	0.35	0.32	0.39	0.21	0.18	0.11	0.12	0.12	0.12	0.23	0.33
60%	0.21	0.14	0.17	0.25	0.18	0.14	0.10	0.11	0.12	0.11	0.20	0.31
70%	0.12	0.11	0.15	0.20	0.16	0.11	0.09	0.11	0.11	0.10	0.18	0.29
80%	0.11	0.10	0.14	0.17	0.13	0.09	0.08	0.09	0.11	0.10	0.17	0.27
90%	0.11	0.10	0.13	0.14	0.09	0.08	0.06	0.05	0.10	0.09	0.10	0.25
Long Term												
Full Simulation Period[b]	0.31	0.30	0.33	0.35	0.24	0.17	0.12	0.13	0.13	0.15	0.24	0.33
Water Year Types[c]												
Wet (32%)	0.25	0.22	0.22	0.19	0.13	0.10	0.07	0.08	0.10	0.10	0.15	0.26
Above Normal (16%)	0.39	0.36	0.33	0.33	0.19	0.14	0.10	0.11	0.12	0.10	0.18	0.26
Below Normal (13%)	0.24	0.22	0.28	0.37	0.23	0.18	0.13	0.14	0.13	0.14	0.23	0.38
Dry (24%)	0.30	0.31	0.38	0.45	0.29	0.21	0.16	0.16	0.14	0.20	0.33	0.38
Critical (15%)	0.41	0.44	0.49	0.50	0.43	0.28	0.21	0.18	0.17	0.24	0.36	0.43

Alternative 5 minus No Action Alternative

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.02	0.00	0.00	0.00	0.02	0.00	0.00	-0.01	0.02	0.00	0.01	0.00
20%	0.00	0.02	-0.01	0.01	0.01	0.00	0.00	0.00	0.01	0.02	0.01	0.00
30%	-0.01	0.00	0.01	0.00	0.00	0.00	-0.01	-0.01	0.01	0.01	0.01	0.01
40%	0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01	0.01	0.00	0.00	0.01
50%	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60%	0.01	-0.02	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Long Term												
Full Simulation Period[b]	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00
Water Year Types[c]												
Wet (32%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Above Normal (16%)	0.01	0.00	-0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Below Normal (13%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dry (24%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01
Critical (15%)	0.00	0.00	0.00	0.00	0.05	0.00	0.00	-0.01	0.02	-0.01	0.00	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.23.4. Jones Pumping Plant, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.51	0.56	0.58	0.57	0.50	0.31	0.17	0.15	0.15	0.23	0.33	0.44
20%	0.49	0.48	0.53	0.52	0.44	0.21	0.16	0.13	0.14	0.17	0.29	0.41
30%	0.47	0.45	0.51	0.49	0.29	0.18	0.13	0.12	0.12	0.15	0.27	0.39
40%	0.46	0.43	0.48	0.48	0.20	0.17	0.12	0.11	0.11	0.12	0.25	0.36
50%	0.45	0.41	0.47	0.45	0.18	0.15	0.11	0.10	0.11	0.11	0.22	0.36
60%	0.43	0.39	0.45	0.26	0.16	0.13	0.09	0.09	0.10	0.10	0.19	0.35
70%	0.42	0.37	0.41	0.17	0.14	0.11	0.09	0.09	0.10	0.10	0.18	0.34
80%	0.40	0.35	0.33	0.15	0.12	0.09	0.08	0.08	0.10	0.09	0.16	0.32
90%	0.34	0.28	0.14	0.14	0.09	0.08	0.06	0.05	0.08	0.08	0.10	0.28
Long Term												
Full Simulation Period[b]	0.43	0.41	0.43	0.36	0.25	0.17	0.12	0.10	0.12	0.14	0.22	0.35
Water Year Types[c]												
Wet (32%)	0.39	0.36	0.33	0.19	0.12	0.10	0.07	0.07	0.10	0.10	0.14	0.29
Above Normal (16%)	0.47	0.43	0.41	0.35	0.19	0.13	0.09	0.09	0.11	0.10	0.17	0.36
Below Normal (13%)	0.40	0.37	0.42	0.41	0.28	0.21	0.12	0.11	0.10	0.14	0.23	0.36
Dry (24%)	0.44	0.42	0.49	0.45	0.33	0.20	0.13	0.12	0.12	0.15	0.28	0.38
Critical (15%)	0.49	0.50	0.55	0.52	0.42	0.28	0.21	0.15	0.21	0.24	0.35	0.44

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.50	0.55	0.58	0.55	0.44	0.28	0.21	0.19	0.16	0.25	0.36	0.43
20%	0.47	0.46	0.52	0.51	0.29	0.23	0.18	0.18	0.14	0.19	0.32	0.41
30%	0.45	0.41	0.48	0.46	0.24	0.21	0.15	0.16	0.13	0.17	0.29	0.37
40%	0.42	0.39	0.43	0.42	0.23	0.19	0.14	0.14	0.12	0.13	0.25	0.35
50%	0.39	0.34	0.32	0.39	0.21	0.18	0.11	0.12	0.12	0.12	0.23	0.33
60%	0.20	0.16	0.17	0.26	0.18	0.14	0.10	0.11	0.12	0.11	0.20	0.31
70%	0.12	0.11	0.15	0.20	0.16	0.11	0.09	0.11	0.11	0.10	0.18	0.29
80%	0.11	0.10	0.14	0.17	0.13	0.09	0.08	0.09	0.11	0.10	0.17	0.27
90%	0.11	0.10	0.13	0.14	0.09	0.08	0.06	0.05	0.10	0.09	0.09	0.25
Long Term												
Full Simulation Period[b]	0.30	0.30	0.33	0.34	0.23	0.17	0.13	0.13	0.12	0.15	0.24	0.33
Water Year Types[c]												
Wet (32%)	0.25	0.22	0.22	0.19	0.13	0.10	0.07	0.08	0.10	0.10	0.14	0.26
Above Normal (16%)	0.38	0.36	0.34	0.33	0.19	0.14	0.10	0.11	0.12	0.10	0.18	0.26
Below Normal (13%)	0.25	0.22	0.28	0.37	0.23	0.18	0.13	0.14	0.12	0.14	0.23	0.38
Dry (24%)	0.30	0.31	0.38	0.44	0.29	0.21	0.16	0.16	0.13	0.19	0.32	0.37
Critical (15%)	0.41	0.44	0.49	0.50	0.38	0.28	0.21	0.19	0.15	0.25	0.36	0.43

No Action Alternative minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	-0.02	0.00	0.00	-0.02	-0.07	-0.03	0.04	0.04	0.00	0.02	0.03	-0.01
20%	-0.02	-0.02	-0.01	-0.01	-0.15	0.02	0.03	0.05	0.00	0.02	0.03	0.00
30%	-0.02	-0.03	-0.03	-0.04	-0.05	0.03	0.02	0.04	0.01	0.03	0.02	-0.01
40%	-0.04	-0.03	-0.06	-0.05	0.03	0.03	0.02	0.04	0.01	0.01	0.00	-0.01
50%	-0.06	-0.07	-0.15	-0.06	0.02	0.02	0.01	0.02	0.01	0.01	0.01	-0.03
60%	-0.23	-0.24	-0.28	0.00	0.02	0.00	0.00	0.02	0.01	0.01	0.00	-0.04
70%	-0.30	-0.26	-0.26	0.03	0.02	0.00	0.00	0.02	0.01	0.01	0.00	-0.04
80%	-0.29	-0.25	-0.20	0.02	0.01	0.00	0.00	0.01	0.01	0.00	0.01	-0.05
90%	-0.23	-0.19	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	-0.01	-0.03
Long Term												
Full Simulation Period[b]	-0.13	-0.11	-0.10	-0.01	-0.02	0.00	0.01	0.02	0.00	0.01	0.01	-0.02
Water Year Types[c]												
Wet (32%)	-0.14	-0.15	-0.11	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.01	-0.02
Above Normal (16%)	-0.09	-0.07	-0.07	-0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.00	-0.10
Below Normal (13%)	-0.15	-0.15	-0.14	-0.04	-0.05	-0.04	0.01	0.03	0.02	0.00	0.00	0.02
Dry (24%)	-0.15	-0.11	-0.11	-0.01	-0.03	0.01	0.02	0.04	0.01	0.04	0.03	-0.01
Critical (15%)	-0.08	-0.06	-0.05	-0.02	-0.04	0.00	0.00	0.04	-0.06	0.00	0.01	-0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.23.5. Jones Pumping Plant, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.51	0.56	0.58	0.57	0.50	0.31	0.17	0.15	0.15	0.23	0.33	0.44
20%	0.49	0.48	0.53	0.52	0.44	0.21	0.16	0.13	0.14	0.17	0.29	0.41
30%	0.47	0.45	0.51	0.49	0.29	0.18	0.13	0.12	0.12	0.15	0.27	0.39
40%	0.46	0.43	0.48	0.48	0.20	0.17	0.12	0.11	0.11	0.12	0.25	0.36
50%	0.45	0.41	0.47	0.45	0.18	0.15	0.11	0.10	0.11	0.11	0.22	0.36
60%	0.43	0.39	0.45	0.26	0.16	0.13	0.09	0.09	0.10	0.10	0.19	0.35
70%	0.42	0.37	0.41	0.17	0.14	0.11	0.09	0.09	0.10	0.10	0.18	0.34
80%	0.40	0.35	0.33	0.15	0.12	0.09	0.08	0.08	0.10	0.09	0.16	0.32
90%	0.34	0.28	0.14	0.14	0.09	0.08	0.06	0.05	0.08	0.08	0.10	0.28
Long Term												
Full Simulation Period[b]	0.43	0.41	0.43	0.36	0.25	0.17	0.12	0.10	0.12	0.14	0.22	0.35
Water Year Types[c]												
Wet (32%)	0.39	0.36	0.33	0.19	0.12	0.10	0.07	0.07	0.10	0.10	0.14	0.29
Above Normal (16%)	0.47	0.43	0.41	0.35	0.19	0.13	0.09	0.09	0.11	0.10	0.17	0.36
Below Normal (13%)	0.40	0.37	0.42	0.41	0.28	0.21	0.12	0.11	0.10	0.14	0.23	0.36
Dry (24%)	0.44	0.42	0.49	0.45	0.33	0.20	0.13	0.12	0.12	0.15	0.28	0.38
Critical (15%)	0.49	0.50	0.55	0.52	0.42	0.28	0.21	0.15	0.21	0.24	0.35	0.44

Alternative 3

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.51	0.55	0.58	0.56	0.47	0.27	0.21	0.19	0.15	0.26	0.37	0.44
20%	0.49	0.48	0.53	0.53	0.29	0.23	0.17	0.17	0.12	0.19	0.31	0.41
30%	0.48	0.44	0.50	0.51	0.24	0.21	0.15	0.15	0.12	0.17	0.28	0.39
40%	0.46	0.42	0.49	0.48	0.22	0.19	0.12	0.13	0.11	0.13	0.25	0.37
50%	0.44	0.41	0.47	0.46	0.20	0.16	0.11	0.11	0.11	0.12	0.23	0.36
60%	0.43	0.40	0.45	0.25	0.17	0.14	0.09	0.10	0.10	0.11	0.19	0.35
70%	0.41	0.39	0.41	0.20	0.15	0.11	0.09	0.10	0.10	0.10	0.18	0.33
80%	0.40	0.36	0.33	0.16	0.12	0.09	0.07	0.09	0.09	0.10	0.11	0.32
90%	0.34	0.30	0.14	0.14	0.09	0.08	0.06	0.05	0.08	0.09	0.09	0.26
Long Term												
Full Simulation Period[b]	0.43	0.41	0.43	0.37	0.23	0.17	0.12	0.12	0.12	0.15	0.23	0.35
Water Year Types[c]												
Wet (32%)	0.38	0.37	0.34	0.21	0.12	0.10	0.07	0.07	0.09	0.10	0.13	0.27
Above Normal (16%)	0.48	0.45	0.42	0.37	0.20	0.14	0.10	0.10	0.10	0.10	0.17	0.36
Below Normal (13%)	0.40	0.36	0.43	0.42	0.25	0.17	0.13	0.14	0.10	0.15	0.24	0.39
Dry (24%)	0.44	0.43	0.49	0.46	0.28	0.21	0.15	0.15	0.11	0.18	0.30	0.38
Critical (15%)	0.49	0.50	0.53	0.49	0.40	0.31	0.21	0.19	0.20	0.25	0.36	0.44

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.00	0.00	0.00	-0.01	-0.04	-0.04	0.04	0.05	0.00	0.03	0.04	0.00
20%	0.00	0.00	0.00	0.02	-0.15	0.02	0.02	0.04	-0.01	0.02	0.03	0.00
30%	0.00	-0.01	0.00	0.01	-0.05	0.03	0.02	0.03	-0.01	0.03	0.01	0.01
40%	0.00	0.00	0.01	0.01	0.02	0.02	0.01	0.03	0.00	0.01	0.00	0.01
50%	-0.01	0.00	0.00	0.00	0.02	0.01	0.00	0.01	0.00	0.01	0.01	0.00
60%	0.00	0.01	0.00	-0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.00
70%	0.00	0.01	0.00	0.04	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00
80%	0.00	0.00	-0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	-0.05	0.00
90%	0.00	0.01	0.01	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
Long Term												
Full Simulation Period[b]	0.00	0.01	0.00	0.01	-0.02	0.00	0.01	0.02	-0.01	0.01	0.00	0.00
Water Year Types[c]												
Wet (32%)	0.00	0.01	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	-0.01
Above Normal (16%)	0.01	0.02	0.01	0.02	0.01	0.01	0.00	0.01	-0.01	0.00	0.00	0.00
Below Normal (13%)	0.00	0.00	0.00	0.01	-0.03	-0.04	0.01	0.03	0.00	0.01	0.01	0.03
Dry (24%)	-0.01	0.01	0.00	0.01	-0.05	0.01	0.02	0.03	-0.01	0.03	0.02	0.00
Critical (15%)	0.00	0.00	-0.02	-0.03	-0.03	0.03	0.00	0.04	-0.01	0.01	0.01	0.00

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.23.6. Jones Pumping Plant, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.51	0.56	0.58	0.57	0.50	0.31	0.17	0.15	0.15	0.23	0.33	0.44
20%	0.49	0.48	0.53	0.52	0.44	0.21	0.16	0.13	0.14	0.17	0.29	0.41
30%	0.47	0.45	0.51	0.49	0.29	0.18	0.13	0.12	0.12	0.15	0.27	0.39
40%	0.46	0.43	0.48	0.48	0.20	0.17	0.12	0.11	0.11	0.12	0.25	0.36
50%	0.45	0.41	0.47	0.45	0.18	0.15	0.11	0.10	0.11	0.11	0.22	0.36
60%	0.43	0.39	0.45	0.26	0.16	0.13	0.09	0.09	0.10	0.10	0.19	0.35
70%	0.42	0.37	0.41	0.17	0.14	0.11	0.09	0.09	0.10	0.10	0.18	0.34
80%	0.40	0.35	0.33	0.15	0.12	0.09	0.08	0.08	0.10	0.09	0.16	0.32
90%	0.34	0.28	0.14	0.14	0.09	0.08	0.06	0.05	0.08	0.08	0.10	0.28
Long Term												
Full Simulation Period[b]	0.43	0.41	0.43	0.36	0.25	0.17	0.12	0.10	0.12	0.14	0.22	0.35
Water Year Types[c]												
Wet (32%)	0.39	0.36	0.33	0.19	0.12	0.10	0.07	0.07	0.10	0.10	0.14	0.29
Above Normal (16%)	0.47	0.43	0.41	0.35	0.19	0.13	0.09	0.09	0.11	0.10	0.17	0.36
Below Normal (13%)	0.40	0.37	0.42	0.41	0.28	0.21	0.12	0.11	0.10	0.14	0.23	0.36
Dry (24%)	0.44	0.42	0.49	0.45	0.33	0.20	0.13	0.12	0.12	0.15	0.28	0.38
Critical (15%)	0.49	0.50	0.55	0.52	0.42	0.28	0.21	0.15	0.21	0.24	0.35	0.44

Alternative 5

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.52	0.55	0.58	0.55	0.46	0.28	0.21	0.18	0.18	0.24	0.37	0.43
20%	0.47	0.48	0.52	0.51	0.30	0.23	0.18	0.18	0.15	0.21	0.33	0.41
30%	0.44	0.42	0.49	0.46	0.24	0.21	0.15	0.16	0.14	0.18	0.30	0.39
40%	0.43	0.40	0.43	0.43	0.23	0.19	0.13	0.14	0.13	0.13	0.25	0.36
50%	0.39	0.35	0.32	0.39	0.21	0.18	0.11	0.12	0.12	0.12	0.23	0.33
60%	0.21	0.14	0.17	0.25	0.18	0.14	0.10	0.11	0.12	0.11	0.20	0.31
70%	0.12	0.11	0.15	0.20	0.16	0.11	0.09	0.11	0.11	0.10	0.18	0.29
80%	0.11	0.10	0.14	0.17	0.13	0.09	0.08	0.09	0.11	0.10	0.17	0.27
90%	0.11	0.10	0.13	0.14	0.09	0.08	0.06	0.05	0.10	0.09	0.10	0.25
Long Term												
Full Simulation Period[b]	0.31	0.30	0.33	0.35	0.24	0.17	0.12	0.13	0.13	0.15	0.24	0.33
Water Year Types[c]												
Wet (32%)	0.25	0.22	0.22	0.19	0.13	0.10	0.07	0.08	0.10	0.10	0.15	0.26
Above Normal (16%)	0.39	0.36	0.33	0.33	0.19	0.14	0.10	0.11	0.12	0.10	0.18	0.26
Below Normal (13%)	0.24	0.22	0.28	0.37	0.23	0.18	0.13	0.14	0.13	0.14	0.23	0.38
Dry (24%)	0.30	0.31	0.38	0.45	0.29	0.21	0.16	0.16	0.14	0.20	0.33	0.38
Critical (15%)	0.41	0.44	0.49	0.50	0.43	0.28	0.21	0.18	0.17	0.24	0.36	0.43

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	-0.01	0.00	-0.02	-0.05	-0.03	0.04	0.04	0.02	0.02	0.04	-0.01
20%	-0.01	-0.01	-0.02	0.00	-0.14	0.02	0.03	0.04	0.01	0.04	0.04	0.00
30%	-0.03	-0.03	-0.02	-0.04	-0.05	0.03	0.02	0.03	0.02	0.03	0.03	0.00
40%	-0.03	-0.03	-0.05	-0.05	0.03	0.03	0.02	0.03	0.02	0.01	0.00	0.00
50%	-0.06	-0.07	-0.15	-0.06	0.02	0.02	0.01	0.02	0.01	0.01	0.01	-0.03
60%	-0.22	-0.26	-0.28	-0.01	0.02	0.00	0.00	0.02	0.02	0.01	0.01	-0.03
70%	-0.30	-0.26	-0.26	0.03	0.02	0.00	0.00	0.02	0.01	0.01	0.00	-0.05
80%	-0.29	-0.25	-0.20	0.02	0.01	0.00	0.00	0.01	0.01	0.00	0.01	-0.05
90%	-0.23	-0.18	0.00	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	-0.03
Long Term												
Full Simulation Period[b]	-0.12	-0.11	-0.10	-0.01	-0.01	0.00	0.01	0.02	0.01	0.01	0.02	-0.02
Water Year Types[c]												
Wet (32%)	-0.14	-0.14	-0.11	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.02	-0.02
Above Normal (16%)	-0.08	-0.07	-0.09	-0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	-0.10
Below Normal (13%)	-0.16	-0.14	-0.14	-0.04	-0.05	-0.04	0.01	0.03	0.03	0.00	0.00	0.02
Dry (24%)	-0.15	-0.11	-0.11	-0.01	-0.03	0.01	0.02	0.04	0.02	0.05	0.05	0.00
Critical (15%)	-0.07	-0.06	-0.05	-0.01	0.00	0.00	0.00	0.03	-0.05	0.00	0.01	-0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.24. Banks Pumping Plant Bromide Concentration

Table 6E.B.24.1. Banks Pumping Plant, Monthly Bromide Concentration

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.53	0.58	0.62	0.58	0.43	0.38	0.19	0.17	0.16	0.22	0.36	0.43
20%	0.49	0.46	0.52	0.52	0.37	0.19	0.16	0.16	0.13	0.16	0.29	0.39
30%	0.45	0.43	0.45	0.43	0.32	0.16	0.14	0.15	0.12	0.15	0.24	0.37
40%	0.44	0.41	0.39	0.36	0.27	0.15	0.13	0.14	0.11	0.10	0.21	0.33
50%	0.39	0.35	0.25	0.33	0.18	0.13	0.12	0.11	0.11	0.09	0.19	0.32
60%	0.20	0.13	0.19	0.26	0.16	0.12	0.10	0.10	0.10	0.09	0.16	0.31
70%	0.19	0.09	0.10	0.17	0.14	0.11	0.09	0.10	0.10	0.08	0.15	0.28
80%	0.17	0.09	0.09	0.14	0.11	0.10	0.08	0.09	0.09	0.08	0.14	0.26
90%	0.10	0.08	0.08	0.13	0.10	0.08	0.06	0.04	0.08	0.07	0.12	0.24
Long Term												
Full Simulation Period[b]	0.32	0.30	0.31	0.33	0.24	0.17	0.13	0.12	0.12	0.13	0.21	0.32
Water Year Types[c]												
Wet (32%)	0.27	0.21	0.20	0.18	0.13	0.10	0.07	0.07	0.09	0.08	0.13	0.27
Above Normal (16%)	0.39	0.37	0.33	0.30	0.20	0.13	0.11	0.11	0.10	0.08	0.14	0.25
Below Normal (13%)	0.28	0.21	0.26	0.35	0.27	0.18	0.13	0.13	0.12	0.12	0.20	0.37
Dry (24%)	0.32	0.31	0.35	0.42	0.32	0.20	0.15	0.14	0.12	0.16	0.29	0.36
Critical (15%)	0.42	0.45	0.50	0.51	0.40	0.32	0.24	0.20	0.18	0.23	0.32	0.40

Alternative 1

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.52	0.57	0.59	0.60	0.45	0.29	0.15	0.13	0.14	0.20	0.32	0.41
20%	0.50	0.50	0.55	0.55	0.39	0.21	0.13	0.12	0.12	0.14	0.25	0.40
30%	0.49	0.47	0.52	0.49	0.30	0.15	0.11	0.12	0.10	0.12	0.22	0.37
40%	0.47	0.44	0.49	0.46	0.22	0.13	0.11	0.10	0.09	0.10	0.21	0.35
50%	0.46	0.43	0.46	0.44	0.15	0.12	0.10	0.09	0.09	0.09	0.18	0.34
60%	0.45	0.41	0.44	0.28	0.14	0.11	0.09	0.09	0.09	0.08	0.15	0.33
70%	0.43	0.39	0.40	0.15	0.11	0.10	0.09	0.08	0.08	0.08	0.14	0.33
80%	0.41	0.36	0.30	0.12	0.10	0.09	0.08	0.08	0.08	0.07	0.13	0.29
90%	0.36	0.28	0.10	0.11	0.09	0.08	0.06	0.05	0.07	0.07	0.08	0.27
Long Term												
Full Simulation Period[b]	0.44	0.42	0.43	0.36	0.23	0.15	0.12	0.10	0.10	0.12	0.19	0.34
Water Year Types[c]												
Wet (32%)	0.40	0.38	0.33	0.18	0.10	0.09	0.07	0.07	0.08	0.08	0.12	0.28
Above Normal (16%)	0.47	0.44	0.42	0.34	0.17	0.12	0.09	0.09	0.08	0.07	0.14	0.35
Below Normal (13%)	0.41	0.38	0.41	0.41	0.32	0.20	0.12	0.10	0.09	0.11	0.20	0.35
Dry (24%)	0.45	0.44	0.49	0.46	0.29	0.16	0.12	0.11	0.11	0.13	0.25	0.37
Critical (15%)	0.49	0.51	0.56	0.55	0.39	0.28	0.23	0.18	0.19	0.23	0.31	0.41

Alternative 1 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	-0.01	0.00	-0.03	0.02	0.01	-0.09	-0.04	-0.04	-0.02	-0.02	-0.04	-0.01
20%	0.01	0.03	0.03	0.03	0.02	0.02	-0.03	-0.03	-0.01	-0.02	-0.04	0.00
30%	0.04	0.04	0.06	0.07	-0.01	-0.02	-0.03	-0.03	-0.02	-0.03	-0.01	0.01
40%	0.03	0.03	0.09	0.10	-0.05	-0.02	-0.03	-0.04	-0.02	-0.01	0.00	0.02
50%	0.07	0.08	0.21	0.12	-0.03	-0.01	-0.02	-0.02	-0.02	0.00	-0.01	0.02
60%	0.25	0.28	0.25	0.01	-0.02	-0.02	-0.01	-0.02	-0.02	0.00	-0.01	0.03
70%	0.24	0.30	0.30	-0.02	-0.03	-0.01	0.00	-0.01	-0.02	0.00	0.00	0.04
80%	0.24	0.28	0.21	-0.01	-0.01	-0.01	0.00	-0.01	-0.01	0.00	-0.01	0.04
90%	0.26	0.20	0.02	-0.02	-0.01	0.00	-0.01	0.01	0.00	0.00	-0.04	0.03
Long Term												
Full Simulation Period[b]	0.11	0.13	0.12	0.03	-0.01	-0.02	-0.01	-0.02	-0.01	-0.01	-0.02	0.02
Water Year Types[c]												
Wet (32%)	0.13	0.17	0.13	0.00	-0.02	0.00	0.00	-0.01	-0.01	0.00	-0.01	0.01
Above Normal (16%)	0.08	0.07	0.08	0.05	-0.03	-0.01	-0.02	-0.02	-0.02	0.00	0.00	0.10
Below Normal (13%)	0.13	0.16	0.15	0.07	0.05	0.01	-0.02	-0.03	-0.04	-0.01	0.00	-0.02
Dry (24%)	0.14	0.13	0.13	0.04	-0.03	-0.04	-0.03	-0.03	-0.01	-0.03	-0.04	0.01
Critical (15%)	0.07	0.06	0.06	0.04	-0.01	-0.04	-0.01	-0.01	0.01	-0.01	-0.01	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.24.2. Banks Pumping Plant, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.53	0.58	0.62	0.58	0.43	0.38	0.19	0.17	0.16	0.22	0.36	0.43
20%	0.49	0.46	0.52	0.52	0.37	0.19	0.16	0.16	0.13	0.16	0.29	0.39
30%	0.45	0.43	0.45	0.43	0.32	0.16	0.14	0.15	0.12	0.15	0.24	0.37
40%	0.44	0.41	0.39	0.36	0.27	0.15	0.13	0.14	0.11	0.10	0.21	0.33
50%	0.39	0.35	0.25	0.33	0.18	0.13	0.12	0.11	0.11	0.09	0.19	0.32
60%	0.20	0.13	0.19	0.26	0.16	0.12	0.10	0.10	0.10	0.09	0.16	0.31
70%	0.19	0.09	0.10	0.17	0.14	0.11	0.09	0.10	0.10	0.08	0.15	0.28
80%	0.17	0.09	0.09	0.14	0.11	0.10	0.08	0.09	0.09	0.08	0.14	0.26
90%	0.10	0.08	0.08	0.13	0.10	0.08	0.06	0.04	0.08	0.07	0.12	0.24
Long Term												
Full Simulation Period[b]	0.32	0.30	0.31	0.33	0.24	0.17	0.13	0.12	0.12	0.13	0.21	0.32
Water Year Types[c]												
Wet (32%)	0.27	0.21	0.20	0.18	0.13	0.10	0.07	0.07	0.09	0.08	0.13	0.27
Above Normal (16%)	0.39	0.37	0.33	0.30	0.20	0.13	0.11	0.11	0.10	0.08	0.14	0.25
Below Normal (13%)	0.28	0.21	0.26	0.35	0.27	0.18	0.13	0.13	0.12	0.12	0.20	0.37
Dry (24%)	0.32	0.31	0.35	0.42	0.32	0.20	0.15	0.14	0.12	0.16	0.29	0.36
Critical (15%)	0.42	0.45	0.50	0.51	0.40	0.32	0.24	0.20	0.18	0.23	0.32	0.40

Alternative 3

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.53	0.57	0.60	0.59	0.43	0.36	0.18	0.16	0.14	0.23	0.36	0.44
20%	0.50	0.50	0.54	0.55	0.38	0.18	0.16	0.14	0.11	0.16	0.26	0.41
30%	0.47	0.46	0.51	0.51	0.34	0.16	0.14	0.12	0.10	0.15	0.23	0.38
40%	0.47	0.44	0.49	0.47	0.21	0.14	0.12	0.10	0.09	0.10	0.21	0.36
50%	0.45	0.42	0.47	0.44	0.17	0.12	0.10	0.09	0.08	0.09	0.18	0.35
60%	0.44	0.42	0.44	0.29	0.14	0.11	0.09	0.09	0.08	0.08	0.16	0.33
70%	0.42	0.40	0.40	0.16	0.13	0.10	0.09	0.08	0.08	0.08	0.14	0.32
80%	0.40	0.36	0.32	0.13	0.11	0.09	0.08	0.08	0.07	0.07	0.12	0.30
90%	0.36	0.32	0.10	0.12	0.09	0.08	0.06	0.05	0.07	0.07	0.08	0.26
Long Term												
Full Simulation Period[b]	0.44	0.43	0.43	0.36	0.23	0.16	0.12	0.11	0.10	0.12	0.20	0.34
Water Year Types[c]												
Wet (32%)	0.39	0.38	0.34	0.19	0.11	0.09	0.07	0.07	0.07	0.08	0.11	0.27
Above Normal (16%)	0.48	0.46	0.42	0.36	0.20	0.12	0.09	0.08	0.08	0.07	0.14	0.35
Below Normal (13%)	0.41	0.37	0.42	0.43	0.28	0.17	0.12	0.11	0.09	0.13	0.21	0.38
Dry (24%)	0.44	0.45	0.49	0.47	0.30	0.19	0.14	0.12	0.10	0.15	0.27	0.37
Critical (15%)	0.49	0.52	0.54	0.50	0.37	0.31	0.25	0.19	0.17	0.23	0.31	0.41

Alternative 3 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	0.00	-0.02	0.01	-0.01	-0.02	-0.01	-0.01	-0.02	0.00	0.01	0.01
20%	0.01	0.04	0.02	0.03	0.01	0.00	0.00	-0.01	-0.03	0.00	-0.02	0.01
30%	0.02	0.04	0.05	0.09	0.03	0.00	-0.01	-0.03	-0.02	0.00	-0.01	0.01
40%	0.03	0.03	0.10	0.11	-0.06	-0.01	-0.01	-0.03	-0.02	-0.01	0.00	0.03
50%	0.07	0.07	0.21	0.11	-0.02	-0.01	-0.02	-0.02	-0.02	0.00	-0.01	0.03
60%	0.24	0.29	0.25	0.02	-0.02	-0.01	-0.01	-0.02	-0.02	0.00	0.00	0.02
70%	0.23	0.31	0.30	-0.01	-0.01	-0.01	0.00	-0.01	-0.02	0.00	-0.01	0.04
80%	0.23	0.27	0.22	0.00	-0.01	-0.01	0.00	-0.01	-0.02	0.00	-0.01	0.04
90%	0.26	0.23	0.02	-0.01	-0.01	0.00	0.00	0.01	-0.01	0.00	-0.04	0.02
Long Term												
Full Simulation Period[b]	0.11	0.13	0.12	0.04	-0.01	-0.01	-0.01	-0.01	-0.02	0.00	-0.01	0.02
Water Year Types[c]												
Wet (32%)	0.12	0.17	0.14	0.02	-0.01	0.00	0.00	-0.01	-0.01	0.00	-0.02	0.00
Above Normal (16%)	0.09	0.09	0.09	0.06	0.00	-0.01	-0.01	-0.02	-0.03	0.00	0.00	0.10
Below Normal (13%)	0.13	0.16	0.15	0.08	0.01	-0.01	-0.01	-0.02	-0.03	0.01	0.01	0.01
Dry (24%)	0.13	0.13	0.14	0.05	-0.02	-0.01	-0.01	-0.02	-0.02	-0.01	-0.02	0.00
Critical (15%)	0.07	0.06	0.04	-0.01	-0.03	-0.01	0.01	-0.01	-0.01	-0.01	-0.01	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.24.3. Banks Pumping Plant, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.53	0.58	0.62	0.58	0.43	0.38	0.19	0.17	0.16	0.22	0.36	0.43
20%	0.49	0.46	0.52	0.52	0.37	0.19	0.16	0.16	0.13	0.16	0.29	0.39
30%	0.45	0.43	0.45	0.43	0.32	0.16	0.14	0.15	0.12	0.15	0.24	0.37
40%	0.44	0.41	0.39	0.36	0.27	0.15	0.13	0.14	0.11	0.10	0.21	0.33
50%	0.39	0.35	0.25	0.33	0.18	0.13	0.12	0.11	0.11	0.09	0.19	0.32
60%	0.20	0.13	0.19	0.26	0.16	0.12	0.10	0.10	0.10	0.09	0.16	0.31
70%	0.19	0.09	0.10	0.17	0.14	0.11	0.09	0.10	0.10	0.08	0.15	0.28
80%	0.17	0.09	0.09	0.14	0.11	0.10	0.08	0.09	0.09	0.08	0.14	0.26
90%	0.10	0.08	0.08	0.13	0.10	0.08	0.06	0.04	0.08	0.07	0.12	0.24
Long Term												
Full Simulation Period[b]	0.32	0.30	0.31	0.33	0.24	0.17	0.13	0.12	0.12	0.13	0.21	0.32
Water Year Types[c]												
Wet (32%)	0.27	0.21	0.20	0.18	0.13	0.10	0.07	0.07	0.09	0.08	0.13	0.27
Above Normal (16%)	0.39	0.37	0.33	0.30	0.20	0.13	0.11	0.11	0.10	0.08	0.14	0.25
Below Normal (13%)	0.28	0.21	0.26	0.35	0.27	0.18	0.13	0.13	0.12	0.12	0.20	0.37
Dry (24%)	0.32	0.31	0.35	0.42	0.32	0.20	0.15	0.14	0.12	0.16	0.29	0.36
Critical (15%)	0.42	0.45	0.50	0.51	0.40	0.32	0.24	0.20	0.18	0.23	0.32	0.40

Alternative 5

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.52	0.58	0.62	0.58	0.44	0.38	0.20	0.19	0.18	0.23	0.36	0.43
20%	0.50	0.49	0.53	0.52	0.37	0.19	0.17	0.17	0.15	0.17	0.31	0.40
30%	0.46	0.43	0.46	0.42	0.32	0.16	0.15	0.15	0.14	0.15	0.26	0.38
40%	0.44	0.41	0.39	0.36	0.27	0.15	0.13	0.13	0.12	0.12	0.21	0.36
50%	0.41	0.36	0.25	0.33	0.18	0.13	0.12	0.11	0.11	0.09	0.20	0.32
60%	0.20	0.10	0.19	0.26	0.16	0.12	0.10	0.10	0.10	0.09	0.16	0.31
70%	0.19	0.09	0.11	0.17	0.14	0.11	0.09	0.09	0.10	0.08	0.15	0.29
80%	0.17	0.09	0.09	0.14	0.11	0.10	0.08	0.09	0.10	0.08	0.13	0.26
90%	0.10	0.08	0.08	0.13	0.10	0.08	0.06	0.04	0.08	0.07	0.12	0.23
Long Term												
Full Simulation Period[b]	0.33	0.30	0.31	0.33	0.24	0.17	0.14	0.13	0.12	0.13	0.22	0.33
Water Year Types[c]												
Wet (32%)	0.27	0.21	0.20	0.18	0.13	0.10	0.07	0.07	0.09	0.08	0.13	0.27
Above Normal (16%)	0.40	0.38	0.33	0.31	0.20	0.13	0.11	0.10	0.10	0.08	0.14	0.25
Below Normal (13%)	0.28	0.22	0.26	0.35	0.27	0.18	0.13	0.12	0.12	0.12	0.20	0.38
Dry (24%)	0.32	0.31	0.35	0.43	0.32	0.20	0.16	0.15	0.14	0.18	0.31	0.38
Critical (15%)	0.43	0.45	0.50	0.51	0.40	0.32	0.27	0.26	0.19	0.24	0.34	0.41

Alternative 5 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.01	0.00
20%	0.01	0.03	0.01	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.02	0.00
30%	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.02	0.01
40%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.01	0.02	0.00	0.03
50%	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
60%	0.00	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70%	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
80%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Long Term												
Full Simulation Period[b]	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.01	0.00
Water Year Types[c]												
Wet (32%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Above Normal (16%)	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Below Normal (13%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00	0.01
Dry (24%)	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.01	0.02	0.01	0.02	0.01
Critical (15%)	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.06	0.01	0.00	0.01	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.24.4. Banks Pumping Plant, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.52	0.57	0.59	0.60	0.45	0.29	0.15	0.13	0.14	0.20	0.32	0.41
20%	0.50	0.50	0.55	0.55	0.39	0.21	0.13	0.12	0.12	0.14	0.25	0.40
30%	0.49	0.47	0.52	0.49	0.30	0.15	0.11	0.12	0.10	0.12	0.22	0.37
40%	0.47	0.44	0.49	0.46	0.22	0.13	0.11	0.10	0.09	0.10	0.21	0.35
50%	0.46	0.43	0.46	0.44	0.15	0.12	0.10	0.09	0.09	0.09	0.18	0.34
60%	0.45	0.41	0.44	0.28	0.14	0.11	0.09	0.09	0.09	0.08	0.15	0.33
70%	0.43	0.39	0.40	0.15	0.11	0.10	0.09	0.08	0.08	0.08	0.14	0.33
80%	0.41	0.36	0.30	0.12	0.10	0.09	0.08	0.08	0.08	0.07	0.13	0.29
90%	0.36	0.28	0.10	0.11	0.09	0.08	0.06	0.05	0.07	0.07	0.08	0.27
Long Term												
Full Simulation Period[b]	0.44	0.42	0.43	0.36	0.23	0.15	0.12	0.10	0.10	0.12	0.19	0.34
Water Year Types[c]												
Wet (32%)	0.40	0.38	0.33	0.18	0.10	0.09	0.07	0.07	0.08	0.08	0.12	0.28
Above Normal (16%)	0.47	0.44	0.42	0.34	0.17	0.12	0.09	0.09	0.08	0.07	0.14	0.35
Below Normal (13%)	0.41	0.38	0.41	0.41	0.32	0.20	0.12	0.10	0.09	0.11	0.20	0.35
Dry (24%)	0.45	0.44	0.49	0.46	0.29	0.16	0.12	0.11	0.11	0.13	0.25	0.37
Critical (15%)	0.49	0.51	0.56	0.55	0.39	0.28	0.23	0.18	0.19	0.23	0.31	0.41

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.53	0.58	0.62	0.58	0.43	0.38	0.19	0.17	0.16	0.22	0.36	0.43
20%	0.49	0.46	0.52	0.52	0.37	0.19	0.16	0.16	0.13	0.16	0.29	0.39
30%	0.45	0.43	0.45	0.43	0.32	0.16	0.14	0.15	0.12	0.15	0.24	0.37
40%	0.44	0.41	0.39	0.36	0.27	0.15	0.13	0.14	0.11	0.10	0.21	0.33
50%	0.39	0.35	0.25	0.33	0.18	0.13	0.12	0.11	0.11	0.09	0.19	0.32
60%	0.20	0.13	0.19	0.26	0.16	0.12	0.10	0.10	0.10	0.09	0.16	0.31
70%	0.19	0.09	0.10	0.17	0.14	0.11	0.09	0.10	0.10	0.08	0.15	0.28
80%	0.17	0.09	0.09	0.14	0.11	0.10	0.08	0.09	0.09	0.08	0.14	0.26
90%	0.10	0.08	0.08	0.13	0.10	0.08	0.06	0.04	0.08	0.07	0.12	0.24
Long Term												
Full Simulation Period[b]	0.32	0.30	0.31	0.33	0.24	0.17	0.13	0.12	0.12	0.13	0.21	0.32
Water Year Types[c]												
Wet (32%)	0.27	0.21	0.20	0.18	0.13	0.10	0.07	0.07	0.09	0.08	0.13	0.27
Above Normal (16%)	0.39	0.37	0.33	0.30	0.20	0.13	0.11	0.11	0.10	0.08	0.14	0.25
Below Normal (13%)	0.28	0.21	0.26	0.35	0.27	0.18	0.13	0.13	0.12	0.12	0.20	0.37
Dry (24%)	0.32	0.31	0.35	0.42	0.32	0.20	0.15	0.14	0.12	0.16	0.29	0.36
Critical (15%)	0.42	0.45	0.50	0.51	0.40	0.32	0.24	0.20	0.18	0.23	0.32	0.40

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	0.00	0.03	-0.02	-0.01	0.09	0.04	0.04	0.02	0.02	0.04	0.01
20%	-0.01	-0.03	-0.03	-0.03	-0.02	-0.02	0.03	0.03	0.01	0.02	0.04	0.00
30%	-0.04	-0.04	-0.06	-0.07	0.01	0.02	0.03	0.03	0.02	0.03	0.01	-0.01
40%	-0.03	-0.03	-0.09	-0.10	0.05	0.02	0.03	0.04	0.02	0.01	0.00	-0.02
50%	-0.07	-0.08	-0.21	-0.12	0.03	0.01	0.02	0.02	0.02	0.00	0.01	-0.02
60%	-0.25	-0.28	-0.25	-0.01	0.02	0.02	0.01	0.02	0.02	0.00	0.01	-0.03
70%	-0.24	-0.30	-0.30	0.02	0.03	0.01	0.00	0.01	0.02	0.00	0.00	-0.04
80%	-0.24	-0.28	-0.21	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01	-0.04
90%	-0.26	-0.20	-0.02	0.02	0.01	0.00	0.01	-0.01	0.00	0.00	0.04	-0.03
Long Term												
Full Simulation Period[b]	-0.11	-0.13	-0.12	-0.03	0.01	0.02	0.01	0.02	0.01	0.01	0.02	-0.02
Water Year Types[c]												
Wet (32%)	-0.13	-0.17	-0.13	0.00	0.02	0.00	0.00	0.01	0.01	0.00	0.01	-0.01
Above Normal (16%)	-0.08	-0.07	-0.08	-0.05	0.03	0.01	0.02	0.02	0.02	0.00	0.00	-0.10
Below Normal (13%)	-0.13	-0.16	-0.15	-0.07	-0.05	-0.01	0.02	0.03	0.04	0.01	0.00	0.02
Dry (24%)	-0.14	-0.13	-0.13	-0.04	0.03	0.04	0.03	0.03	0.01	0.03	0.04	-0.01
Critical (15%)	-0.07	-0.06	-0.06	-0.04	0.01	0.04	0.01	0.01	-0.01	0.01	0.01	-0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.24.5. Banks Pumping Plant, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.52	0.57	0.59	0.60	0.45	0.29	0.15	0.13	0.14	0.20	0.32	0.41
20%	0.50	0.50	0.55	0.55	0.39	0.21	0.13	0.12	0.12	0.14	0.25	0.40
30%	0.49	0.47	0.52	0.49	0.30	0.15	0.11	0.12	0.10	0.12	0.22	0.37
40%	0.47	0.44	0.49	0.46	0.22	0.13	0.11	0.10	0.09	0.10	0.21	0.35
50%	0.46	0.43	0.46	0.44	0.15	0.12	0.10	0.09	0.09	0.09	0.18	0.34
60%	0.45	0.41	0.44	0.28	0.14	0.11	0.09	0.09	0.09	0.08	0.15	0.33
70%	0.43	0.39	0.40	0.15	0.11	0.10	0.09	0.08	0.08	0.08	0.14	0.33
80%	0.41	0.36	0.30	0.12	0.10	0.09	0.08	0.08	0.08	0.07	0.13	0.29
90%	0.36	0.28	0.10	0.11	0.09	0.08	0.06	0.05	0.07	0.07	0.08	0.27
Long Term												
Full Simulation Period[b]	0.44	0.42	0.43	0.36	0.23	0.15	0.12	0.10	0.10	0.12	0.19	0.34
Water Year Types[c]												
Wet (32%)	0.40	0.38	0.33	0.18	0.10	0.09	0.07	0.07	0.08	0.08	0.12	0.28
Above Normal (16%)	0.47	0.44	0.42	0.34	0.17	0.12	0.09	0.09	0.08	0.07	0.14	0.35
Below Normal (13%)	0.41	0.38	0.41	0.41	0.32	0.20	0.12	0.10	0.09	0.11	0.20	0.35
Dry (24%)	0.45	0.44	0.49	0.46	0.29	0.16	0.12	0.11	0.11	0.13	0.25	0.37
Critical (15%)	0.49	0.51	0.56	0.55	0.39	0.28	0.23	0.18	0.19	0.23	0.31	0.41

Alternative 3

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.53	0.57	0.60	0.59	0.43	0.36	0.18	0.16	0.14	0.23	0.36	0.44
20%	0.50	0.50	0.54	0.55	0.38	0.18	0.16	0.14	0.11	0.16	0.26	0.41
30%	0.47	0.46	0.51	0.51	0.34	0.16	0.14	0.12	0.10	0.15	0.23	0.38
40%	0.47	0.44	0.49	0.47	0.21	0.14	0.12	0.10	0.09	0.10	0.21	0.36
50%	0.45	0.42	0.47	0.44	0.17	0.12	0.10	0.09	0.08	0.09	0.18	0.35
60%	0.44	0.42	0.44	0.29	0.14	0.11	0.09	0.09	0.08	0.08	0.16	0.33
70%	0.42	0.40	0.40	0.16	0.13	0.10	0.09	0.08	0.08	0.08	0.14	0.32
80%	0.40	0.36	0.32	0.13	0.11	0.09	0.08	0.08	0.07	0.07	0.12	0.30
90%	0.36	0.32	0.10	0.12	0.09	0.08	0.06	0.05	0.07	0.07	0.08	0.26
Long Term												
Full Simulation Period[b]	0.44	0.43	0.43	0.36	0.23	0.16	0.12	0.11	0.10	0.12	0.20	0.34
Water Year Types[c]												
Wet (32%)	0.39	0.38	0.34	0.19	0.11	0.09	0.07	0.07	0.07	0.08	0.11	0.27
Above Normal (16%)	0.48	0.46	0.42	0.36	0.20	0.12	0.09	0.08	0.08	0.07	0.14	0.35
Below Normal (13%)	0.41	0.37	0.42	0.43	0.28	0.17	0.12	0.11	0.09	0.13	0.21	0.38
Dry (24%)	0.44	0.45	0.49	0.47	0.30	0.19	0.14	0.12	0.10	0.15	0.27	0.37
Critical (15%)	0.49	0.52	0.54	0.50	0.37	0.31	0.25	0.19	0.17	0.23	0.31	0.41

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.02	0.00	0.01	-0.01	-0.02	0.07	0.03	0.03	0.00	0.02	0.04	0.03
20%	0.00	0.00	-0.01	0.00	-0.01	-0.03	0.03	0.02	-0.01	0.02	0.02	0.01
30%	-0.02	-0.01	-0.01	0.02	0.04	0.01	0.02	0.01	0.00	0.03	0.00	0.00
40%	0.00	0.00	0.01	0.00	-0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.01
50%	0.00	-0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01
60%	-0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
70%	-0.01	0.01	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80%	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00
90%	0.00	0.04	0.00	0.01	0.00	0.00	0.01	0.00	-0.01	0.00	0.00	-0.01
Long Term												
Full Simulation Period[b]	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.00	-0.01	0.01	0.01	0.00
Water Year Types[c]												
Wet (32%)	0.00	0.00	0.01	0.02	0.01	0.00	0.00	0.00	-0.01	0.00	-0.01	-0.01
Above Normal (16%)	0.01	0.02	0.01	0.02	0.02	0.00	0.00	0.00	-0.01	0.00	0.00	0.00
Below Normal (13%)	0.00	0.00	0.00	0.01	-0.05	-0.02	0.01	0.01	0.01	0.02	0.01	0.04
Dry (24%)	-0.01	0.01	0.01	0.01	0.01	0.03	0.02	0.01	-0.01	0.02	0.02	0.00
Critical (15%)	0.00	0.00	-0.02	-0.05	-0.02	0.03	0.02	0.00	-0.02	0.00	0.00	0.00

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.24.6. Banks Pumping Plant, Monthly Bromide Concentration

Second Basis of Comparison

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.52	0.57	0.59	0.60	0.45	0.29	0.15	0.13	0.14	0.20	0.32	0.41
20%	0.50	0.50	0.55	0.55	0.39	0.21	0.13	0.12	0.12	0.14	0.25	0.40
30%	0.49	0.47	0.52	0.49	0.30	0.15	0.11	0.12	0.10	0.12	0.22	0.37
40%	0.47	0.44	0.49	0.46	0.22	0.13	0.11	0.10	0.09	0.10	0.21	0.35
50%	0.46	0.43	0.46	0.44	0.15	0.12	0.10	0.09	0.09	0.09	0.18	0.34
60%	0.45	0.41	0.44	0.28	0.14	0.11	0.09	0.09	0.09	0.08	0.15	0.33
70%	0.43	0.39	0.40	0.15	0.11	0.10	0.09	0.08	0.08	0.08	0.14	0.33
80%	0.41	0.36	0.30	0.12	0.10	0.09	0.08	0.08	0.08	0.07	0.13	0.29
90%	0.36	0.28	0.10	0.11	0.09	0.08	0.06	0.05	0.07	0.07	0.08	0.27
Long Term												
Full Simulation Period[b]	0.44	0.42	0.43	0.36	0.23	0.15	0.12	0.10	0.10	0.12	0.19	0.34
Water Year Types[c]												
Wet (32%)	0.40	0.38	0.33	0.18	0.10	0.09	0.07	0.07	0.08	0.08	0.12	0.28
Above Normal (16%)	0.47	0.44	0.42	0.34	0.17	0.12	0.09	0.09	0.08	0.07	0.14	0.35
Below Normal (13%)	0.41	0.38	0.41	0.41	0.32	0.20	0.12	0.10	0.09	0.11	0.20	0.35
Dry (24%)	0.45	0.44	0.49	0.46	0.29	0.16	0.12	0.11	0.11	0.13	0.25	0.37
Critical (15%)	0.49	0.51	0.56	0.55	0.39	0.28	0.23	0.18	0.19	0.23	0.31	0.41

Alternative 5

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.52	0.58	0.62	0.58	0.44	0.38	0.20	0.19	0.18	0.23	0.36	0.43
20%	0.50	0.49	0.53	0.52	0.37	0.19	0.17	0.17	0.15	0.17	0.31	0.40
30%	0.46	0.43	0.46	0.42	0.32	0.16	0.15	0.15	0.14	0.15	0.26	0.38
40%	0.44	0.41	0.39	0.36	0.27	0.15	0.13	0.13	0.12	0.12	0.21	0.36
50%	0.41	0.36	0.25	0.33	0.18	0.13	0.12	0.11	0.11	0.09	0.20	0.32
60%	0.20	0.10	0.19	0.26	0.16	0.12	0.10	0.10	0.10	0.09	0.16	0.31
70%	0.19	0.09	0.11	0.17	0.14	0.11	0.09	0.09	0.10	0.08	0.15	0.29
80%	0.17	0.09	0.09	0.14	0.11	0.10	0.08	0.09	0.10	0.08	0.13	0.26
90%	0.10	0.08	0.08	0.13	0.10	0.08	0.06	0.04	0.08	0.07	0.12	0.23
Long Term												
Full Simulation Period[b]	0.33	0.30	0.31	0.33	0.24	0.17	0.14	0.13	0.12	0.13	0.22	0.33
Water Year Types[c]												
Wet (32%)	0.27	0.21	0.20	0.18	0.13	0.10	0.07	0.07	0.09	0.08	0.13	0.27
Above Normal (16%)	0.40	0.38	0.33	0.31	0.20	0.13	0.11	0.10	0.10	0.08	0.14	0.25
Below Normal (13%)	0.28	0.22	0.26	0.35	0.27	0.18	0.13	0.12	0.12	0.12	0.20	0.38
Dry (24%)	0.32	0.31	0.35	0.43	0.32	0.20	0.16	0.15	0.14	0.18	0.31	0.38
Critical (15%)	0.43	0.45	0.50	0.51	0.40	0.32	0.27	0.26	0.19	0.24	0.34	0.41

Alternative 5 minus Second Basis of Comparison

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	0.01	0.03	-0.02	-0.01	0.09	0.05	0.06	0.04	0.02	0.04	0.01
20%	0.00	0.00	-0.02	-0.03	-0.02	-0.02	0.04	0.04	0.03	0.03	0.06	0.00
30%	-0.03	-0.04	-0.06	-0.07	0.01	0.02	0.04	0.04	0.04	0.04	0.03	0.01
40%	-0.02	-0.03	-0.09	-0.10	0.05	0.02	0.03	0.03	0.03	0.02	0.00	0.01
50%	-0.05	-0.07	-0.21	-0.12	0.03	0.01	0.02	0.02	0.02	0.00	0.01	-0.02
60%	-0.24	-0.31	-0.25	-0.01	0.02	0.02	0.01	0.02	0.02	0.00	0.01	-0.02
70%	-0.24	-0.30	-0.29	0.03	0.03	0.01	0.00	0.01	0.02	0.00	0.01	-0.03
80%	-0.23	-0.28	-0.21	0.02	0.01	0.01	0.00	0.01	0.02	0.00	0.00	-0.03
90%	-0.26	-0.20	-0.01	0.02	0.01	0.00	0.01	-0.01	0.00	0.00	0.04	-0.04
Long Term												
Full Simulation Period[b]	-0.11	-0.12	-0.12	-0.03	0.01	0.02	0.02	0.03	0.02	0.02	0.02	-0.01
Water Year Types[c]												
Wet (32%)	-0.13	-0.16	-0.13	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.01	-0.01
Above Normal (16%)	-0.07	-0.06	-0.09	-0.04	0.03	0.01	0.01	0.02	0.02	0.00	0.00	-0.10
Below Normal (13%)	-0.13	-0.16	-0.15	-0.07	-0.05	-0.01	0.01	0.02	0.04	0.01	0.00	0.03
Dry (24%)	-0.13	-0.13	-0.14	-0.03	0.03	0.04	0.04	0.04	0.03	0.05	0.06	0.01
Critical (15%)	-0.06	-0.06	-0.06	-0.04	0.01	0.04	0.04	0.07	0.00	0.01	0.03	0.00

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.25. Old River at Rock Slough Bromide Concentration

Table 6E.B.25.1. Old River at Rock Slough, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.77	0.83	0.78	0.62	0.31	0.13	0.12	0.12	0.09	0.29	0.49	0.64
20%	0.71	0.65	0.69	0.51	0.27	0.10	0.11	0.11	0.08	0.20	0.43	0.59
30%	0.65	0.57	0.58	0.40	0.17	0.09	0.10	0.10	0.07	0.18	0.36	0.55
40%	0.60	0.52	0.38	0.33	0.14	0.08	0.10	0.10	0.07	0.16	0.30	0.51
50%	0.56	0.39	0.24	0.28	0.12	0.08	0.09	0.10	0.07	0.12	0.26	0.44
60%	0.13	0.14	0.18	0.23	0.10	0.07	0.09	0.09	0.07	0.08	0.23	0.39
70%	0.12	0.06	0.14	0.11	0.08	0.07	0.08	0.09	0.06	0.06	0.19	0.37
80%	0.11	0.06	0.11	0.09	0.08	0.06	0.08	0.07	0.06	0.06	0.18	0.31
90%	0.11	0.05	0.06	0.08	0.07	0.06	0.07	0.05	0.06	0.05	0.16	0.28
Long Term												
Full Simulation Period[b]	0.42	0.38	0.37	0.31	0.16	0.10	0.09	0.09	0.08	0.15	0.29	0.45
Water Year Types[c]												
Wet (32%)	0.30	0.24	0.19	0.13	0.10	0.07	0.08	0.08	0.06	0.06	0.17	0.33
Above Normal (16%)	0.55	0.49	0.38	0.26	0.12	0.07	0.10	0.10	0.07	0.08	0.20	0.29
Below Normal (13%)	0.30	0.26	0.33	0.33	0.16	0.09	0.10	0.11	0.07	0.15	0.28	0.56
Dry (24%)	0.42	0.41	0.45	0.43	0.20	0.10	0.10	0.09	0.07	0.22	0.40	0.53
Critical (15%)	0.62	0.63	0.66	0.53	0.29	0.16	0.12	0.13	0.17	0.32	0.49	0.63

Alternative 1

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.78	0.83	0.85	0.70	0.46	0.19	0.10	0.09	0.12	0.28	0.47	0.64
20%	0.72	0.72	0.75	0.62	0.32	0.13	0.08	0.08	0.08	0.18	0.36	0.60
30%	0.69	0.66	0.73	0.56	0.22	0.10	0.08	0.07	0.07	0.17	0.33	0.57
40%	0.67	0.61	0.70	0.51	0.15	0.08	0.07	0.07	0.07	0.14	0.30	0.54
50%	0.64	0.59	0.61	0.38	0.12	0.07	0.06	0.06	0.06	0.11	0.25	0.53
60%	0.63	0.57	0.55	0.27	0.09	0.07	0.06	0.06	0.06	0.07	0.22	0.51
70%	0.60	0.54	0.46	0.13	0.08	0.06	0.06	0.06	0.05	0.06	0.18	0.50
80%	0.58	0.44	0.32	0.09	0.07	0.06	0.06	0.06	0.05	0.06	0.16	0.45
90%	0.51	0.30	0.12	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.15	0.39
Long Term												
Full Simulation Period[b]	0.63	0.58	0.56	0.38	0.19	0.10	0.07	0.07	0.08	0.14	0.28	0.52
Water Year Types[c]												
Wet (32%)	0.56	0.52	0.39	0.14	0.09	0.07	0.07	0.06	0.06	0.06	0.16	0.42
Above Normal (16%)	0.70	0.60	0.54	0.35	0.12	0.07	0.06	0.06	0.05	0.07	0.20	0.53
Below Normal (13%)	0.57	0.51	0.57	0.48	0.28	0.12	0.07	0.07	0.06	0.15	0.28	0.53
Dry (24%)	0.65	0.60	0.67	0.51	0.25	0.10	0.07	0.07	0.08	0.19	0.35	0.56
Critical (15%)	0.73	0.71	0.77	0.60	0.31	0.18	0.11	0.12	0.19	0.32	0.48	0.65

Alternative 1 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	0.00	0.06	0.09	0.15	0.06	-0.02	-0.03	0.03	-0.01	-0.02	0.00
20%	0.01	0.07	0.05	0.10	0.05	0.03	-0.03	-0.03	0.00	-0.02	-0.06	0.01
30%	0.03	0.09	0.14	0.16	0.05	0.01	-0.02	-0.03	0.00	-0.01	-0.03	0.02
40%	0.06	0.09	0.32	0.18	0.02	0.00	-0.03	-0.03	0.00	-0.02	0.00	0.03
50%	0.08	0.20	0.36	0.10	0.00	-0.01	-0.03	-0.03	-0.01	-0.01	-0.01	0.08
60%	0.50	0.43	0.37	0.04	-0.01	-0.01	-0.03	-0.03	-0.01	-0.01	0.00	0.12
70%	0.48	0.48	0.33	0.02	0.00	-0.01	-0.02	-0.03	-0.01	0.00	-0.01	0.14
80%	0.46	0.38	0.21	0.00	0.00	0.00	-0.02	-0.02	-0.01	0.00	-0.01	0.14
90%	0.40	0.24	0.06	-0.01	-0.01	-0.01	-0.01	0.00	-0.01	0.00	-0.01	0.11
Long Term												
Full Simulation Period[b]	0.21	0.20	0.19	0.07	0.03	0.00	-0.02	-0.02	0.00	-0.01	-0.02	0.07
Water Year Types[c]												
Wet (32%)	0.26	0.28	0.20	0.01	-0.01	0.00	-0.01	-0.02	0.00	0.00	-0.01	0.09
Above Normal (16%)	0.15	0.11	0.17	0.09	0.01	-0.01	-0.04	-0.04	-0.01	0.00	0.00	0.23
Below Normal (13%)	0.27	0.25	0.25	0.15	0.12	0.03	-0.03	-0.04	-0.01	0.00	0.00	-0.03
Dry (24%)	0.23	0.19	0.22	0.08	0.04	-0.01	-0.02	-0.02	0.01	-0.04	-0.05	0.03
Critical (15%)	0.11	0.08	0.11	0.07	0.02	0.02	-0.01	-0.01	0.02	0.00	-0.01	0.02

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.25.2. Old River at Rock Slough, Monthly Bromide Concentration

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.77	0.83	0.78	0.62	0.31	0.13	0.12	0.12	0.09	0.29	0.49	0.64
20%	0.71	0.65	0.69	0.51	0.27	0.10	0.11	0.11	0.08	0.20	0.43	0.59
30%	0.65	0.57	0.58	0.40	0.17	0.09	0.10	0.10	0.07	0.18	0.36	0.55
40%	0.60	0.52	0.38	0.33	0.14	0.08	0.10	0.10	0.07	0.16	0.30	0.51
50%	0.56	0.39	0.24	0.28	0.12	0.08	0.09	0.10	0.07	0.12	0.26	0.44
60%	0.13	0.14	0.18	0.23	0.10	0.07	0.09	0.09	0.07	0.08	0.23	0.39
70%	0.12	0.06	0.14	0.11	0.08	0.07	0.08	0.09	0.06	0.06	0.19	0.37
80%	0.11	0.06	0.11	0.09	0.08	0.06	0.08	0.07	0.06	0.06	0.18	0.31
90%	0.11	0.05	0.06	0.08	0.07	0.06	0.07	0.05	0.06	0.05	0.16	0.28
Long Term												
Full Simulation Period[b]	0.42	0.38	0.37	0.31	0.16	0.10	0.09	0.09	0.08	0.15	0.29	0.45
Water Year Types[c]												
Wet (32%)	0.30	0.24	0.19	0.13	0.10	0.07	0.08	0.08	0.06	0.06	0.17	0.33
Above Normal (16%)	0.55	0.49	0.38	0.26	0.12	0.07	0.10	0.10	0.07	0.08	0.20	0.29
Below Normal (13%)	0.30	0.26	0.33	0.33	0.16	0.09	0.10	0.11	0.07	0.15	0.28	0.56
Dry (24%)	0.42	0.41	0.45	0.43	0.20	0.10	0.10	0.09	0.07	0.22	0.40	0.53
Critical (15%)	0.62	0.63	0.66	0.53	0.29	0.16	0.12	0.13	0.17	0.32	0.49	0.63

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.78	0.82	0.85	0.63	0.31	0.12	0.10	0.09	0.13	0.34	0.49	0.66
20%	0.72	0.72	0.76	0.57	0.25	0.10	0.09	0.08	0.08	0.21	0.41	0.60
30%	0.69	0.66	0.72	0.52	0.20	0.09	0.08	0.07	0.07	0.19	0.33	0.57
40%	0.67	0.61	0.69	0.45	0.13	0.08	0.08	0.06	0.06	0.16	0.31	0.55
50%	0.64	0.59	0.60	0.39	0.10	0.08	0.07	0.06	0.06	0.11	0.27	0.53
60%	0.62	0.56	0.54	0.20	0.09	0.07	0.06	0.06	0.05	0.10	0.22	0.51
70%	0.59	0.54	0.45	0.11	0.08	0.06	0.06	0.05	0.05	0.06	0.18	0.50
80%	0.57	0.49	0.31	0.09	0.07	0.06	0.06	0.05	0.05	0.06	0.16	0.45
90%	0.52	0.34	0.12	0.07	0.06	0.05	0.05	0.05	0.05	0.06	0.14	0.40
Long Term												
Full Simulation Period[b]	0.63	0.59	0.55	0.34	0.16	0.09	0.08	0.07	0.08	0.16	0.28	0.52
Water Year Types[c]												
Wet (32%)	0.55	0.53	0.39	0.15	0.09	0.07	0.06	0.05	0.05	0.06	0.15	0.41
Above Normal (16%)	0.71	0.63	0.54	0.33	0.11	0.07	0.06	0.06	0.05	0.09	0.20	0.53
Below Normal (13%)	0.58	0.50	0.58	0.42	0.18	0.09	0.07	0.07	0.07	0.17	0.30	0.57
Dry (24%)	0.64	0.62	0.67	0.47	0.19	0.10	0.08	0.07	0.07	0.22	0.38	0.55
Critical (15%)	0.73	0.71	0.71	0.51	0.28	0.16	0.11	0.12	0.19	0.32	0.48	0.65

Alternative 3 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.00	-0.02	0.06	0.01	0.00	-0.01	-0.02	-0.03	0.04	0.05	0.01	0.03
20%	0.01	0.07	0.07	0.05	-0.02	0.00	-0.02	-0.03	0.01	0.00	-0.01	0.01
30%	0.04	0.09	0.13	0.12	0.02	0.00	-0.02	-0.04	-0.01	0.01	-0.03	0.02
40%	0.07	0.09	0.30	0.11	-0.01	0.00	-0.02	-0.04	-0.01	0.00	0.01	0.04
50%	0.08	0.19	0.36	0.10	-0.02	0.00	-0.02	-0.04	-0.01	-0.01	0.01	0.09
60%	0.49	0.42	0.37	-0.03	-0.01	0.00	-0.03	-0.03	-0.01	0.02	-0.01	0.12
70%	0.47	0.48	0.31	0.00	0.00	0.00	-0.02	-0.03	-0.01	0.00	-0.01	0.13
80%	0.46	0.44	0.20	0.00	0.00	0.00	-0.02	-0.02	-0.01	0.00	-0.02	0.14
90%	0.42	0.29	0.06	-0.01	-0.01	0.00	-0.01	0.00	-0.01	0.00	-0.02	0.12
Long Term												
Full Simulation Period[b]	0.21	0.21	0.19	0.03	-0.01	0.00	-0.02	-0.03	0.00	0.00	-0.01	0.07
Water Year Types[c]												
Wet (32%)	0.25	0.29	0.20	0.02	-0.01	0.00	-0.01	-0.02	-0.01	0.00	-0.02	0.08
Above Normal (16%)	0.17	0.14	0.16	0.07	-0.01	-0.01	-0.04	-0.05	-0.01	0.01	0.00	0.24
Below Normal (13%)	0.27	0.24	0.25	0.09	0.01	0.00	-0.03	-0.04	0.00	0.02	0.02	0.01
Dry (24%)	0.22	0.21	0.22	0.04	-0.01	-0.01	-0.02	-0.02	0.00	0.00	-0.02	0.02
Critical (15%)	0.11	0.08	0.05	-0.02	-0.01	-0.01	-0.01	-0.01	0.02	0.00	0.00	0.02

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.25.3. Old River at Rock Slough, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.77	0.83	0.78	0.62	0.31	0.13	0.12	0.12	0.09	0.29	0.49	0.64
20%	0.71	0.65	0.69	0.51	0.27	0.10	0.11	0.11	0.08	0.20	0.43	0.59
30%	0.65	0.57	0.58	0.40	0.17	0.09	0.10	0.10	0.07	0.18	0.36	0.55
40%	0.60	0.52	0.38	0.33	0.14	0.08	0.10	0.10	0.07	0.16	0.30	0.51
50%	0.56	0.39	0.24	0.28	0.12	0.08	0.09	0.10	0.07	0.12	0.26	0.44
60%	0.13	0.14	0.18	0.23	0.10	0.07	0.09	0.09	0.07	0.08	0.23	0.39
70%	0.12	0.06	0.14	0.11	0.08	0.07	0.08	0.09	0.06	0.06	0.19	0.37
80%	0.11	0.06	0.11	0.09	0.08	0.06	0.08	0.07	0.06	0.06	0.18	0.31
90%	0.11	0.05	0.06	0.08	0.07	0.06	0.07	0.05	0.06	0.05	0.16	0.28
Long Term												
Full Simulation Period[b]	0.42	0.38	0.37	0.31	0.16	0.10	0.09	0.09	0.08	0.15	0.29	0.45
Water Year Types[c]												
Wet (32%)	0.30	0.24	0.19	0.13	0.10	0.07	0.08	0.08	0.06	0.06	0.17	0.33
Above Normal (16%)	0.55	0.49	0.38	0.26	0.12	0.07	0.10	0.10	0.07	0.08	0.20	0.29
Below Normal (13%)	0.30	0.26	0.33	0.33	0.16	0.09	0.10	0.11	0.07	0.15	0.28	0.56
Dry (24%)	0.42	0.41	0.45	0.43	0.20	0.10	0.10	0.09	0.07	0.22	0.40	0.53
Critical (15%)	0.62	0.63	0.66	0.53	0.29	0.16	0.12	0.13	0.17	0.32	0.49	0.63

Alternative 5

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.80	0.83	0.78	0.66	0.31	0.13	0.15	0.16	0.11	0.30	0.50	0.64
20%	0.71	0.68	0.67	0.52	0.27	0.10	0.13	0.15	0.09	0.23	0.45	0.59
30%	0.66	0.58	0.59	0.40	0.19	0.09	0.13	0.14	0.08	0.19	0.37	0.57
40%	0.62	0.52	0.43	0.33	0.14	0.08	0.12	0.13	0.08	0.17	0.31	0.52
50%	0.55	0.40	0.23	0.28	0.12	0.08	0.11	0.12	0.07	0.11	0.26	0.45
60%	0.13	0.14	0.17	0.23	0.10	0.07	0.10	0.11	0.07	0.07	0.22	0.39
70%	0.12	0.06	0.14	0.11	0.08	0.07	0.09	0.10	0.06	0.06	0.20	0.37
80%	0.12	0.06	0.11	0.09	0.08	0.06	0.08	0.09	0.06	0.06	0.18	0.32
90%	0.11	0.05	0.06	0.08	0.07	0.06	0.07	0.05	0.06	0.05	0.16	0.28
Long Term												
Full Simulation Period[b]	0.42	0.38	0.37	0.31	0.17	0.10	0.11	0.12	0.08	0.16	0.30	0.46
Water Year Types[c]												
Wet (32%)	0.30	0.25	0.19	0.13	0.10	0.07	0.08	0.08	0.06	0.06	0.17	0.33
Above Normal (16%)	0.56	0.48	0.37	0.26	0.12	0.07	0.10	0.11	0.07	0.08	0.20	0.29
Below Normal (13%)	0.30	0.26	0.33	0.33	0.16	0.09	0.12	0.13	0.08	0.16	0.28	0.57
Dry (24%)	0.42	0.41	0.44	0.44	0.21	0.10	0.13	0.14	0.08	0.24	0.43	0.55
Critical (15%)	0.62	0.63	0.66	0.54	0.30	0.17	0.16	0.16	0.16	0.30	0.50	0.64

Alternative 5 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.03	0.00	0.00	0.04	0.00	0.00	0.03	0.04	0.02	0.01	0.01	0.00
20%	0.00	0.04	-0.02	0.01	0.00	0.00	0.02	0.04	0.02	0.03	0.02	0.00
30%	0.01	0.01	0.00	0.00	0.01	0.00	0.02	0.04	0.01	0.01	0.01	0.02
40%	0.02	-0.01	0.04	0.00	0.01	0.00	0.02	0.03	0.01	0.00	0.01	0.01
50%	-0.01	0.01	-0.02	0.00	0.00	0.00	0.02	0.02	0.00	-0.01	0.00	0.01
60%	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	-0.01	0.00	0.00
70%	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00
80%	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00
90%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Long Term												
Full Simulation Period[b]	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.01	0.01
Water Year Types[c]												
Wet (32%)	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Above Normal (16%)	0.01	-0.01	-0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
Below Normal (13%)	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.00	0.00	0.01
Dry (24%)	0.00	0.00	0.00	0.01	0.01	0.00	0.03	0.05	0.01	0.02	0.03	0.02
Critical (15%)	0.00	0.00	0.00	0.00	0.01	0.01	0.05	0.03	-0.01	-0.02	0.01	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.25.4. Old River at Rock Slough, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.78	0.83	0.85	0.70	0.46	0.19	0.10	0.09	0.12	0.28	0.47	0.64
20%	0.72	0.72	0.75	0.62	0.32	0.13	0.08	0.08	0.08	0.18	0.36	0.60
30%	0.69	0.66	0.73	0.56	0.22	0.10	0.08	0.07	0.07	0.17	0.33	0.57
40%	0.67	0.61	0.70	0.51	0.15	0.08	0.07	0.07	0.07	0.14	0.30	0.54
50%	0.64	0.59	0.61	0.38	0.12	0.07	0.06	0.06	0.06	0.11	0.25	0.53
60%	0.63	0.57	0.55	0.27	0.09	0.07	0.06	0.06	0.06	0.07	0.22	0.51
70%	0.60	0.54	0.46	0.13	0.08	0.06	0.06	0.06	0.05	0.06	0.18	0.50
80%	0.58	0.44	0.32	0.09	0.07	0.06	0.06	0.06	0.05	0.06	0.16	0.45
90%	0.51	0.30	0.12	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.15	0.39
Long Term												
Full Simulation Period[b]	0.63	0.58	0.56	0.38	0.19	0.10	0.07	0.07	0.08	0.14	0.28	0.52
Water Year Types[c]												
Wet (32%)	0.56	0.52	0.39	0.14	0.09	0.07	0.07	0.06	0.06	0.06	0.16	0.42
Above Normal (16%)	0.70	0.60	0.54	0.35	0.12	0.07	0.06	0.06	0.05	0.07	0.20	0.53
Below Normal (13%)	0.57	0.51	0.57	0.48	0.28	0.12	0.07	0.07	0.06	0.15	0.28	0.53
Dry (24%)	0.65	0.60	0.67	0.51	0.25	0.10	0.07	0.07	0.08	0.19	0.35	0.56
Critical (15%)	0.73	0.71	0.77	0.60	0.31	0.18	0.11	0.12	0.19	0.32	0.48	0.65

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.77	0.83	0.78	0.62	0.31	0.13	0.12	0.12	0.09	0.29	0.49	0.64
20%	0.71	0.65	0.69	0.51	0.27	0.10	0.11	0.11	0.08	0.20	0.43	0.59
30%	0.65	0.57	0.58	0.40	0.17	0.09	0.10	0.10	0.07	0.18	0.36	0.55
40%	0.60	0.52	0.38	0.33	0.14	0.08	0.10	0.10	0.07	0.16	0.30	0.51
50%	0.56	0.39	0.24	0.28	0.12	0.08	0.09	0.10	0.07	0.12	0.26	0.44
60%	0.13	0.14	0.18	0.23	0.10	0.07	0.09	0.09	0.07	0.08	0.23	0.39
70%	0.12	0.06	0.14	0.11	0.08	0.07	0.08	0.09	0.06	0.06	0.19	0.37
80%	0.11	0.06	0.11	0.09	0.08	0.06	0.08	0.07	0.06	0.06	0.18	0.31
90%	0.11	0.05	0.06	0.08	0.07	0.06	0.07	0.05	0.06	0.05	0.16	0.28
Long Term												
Full Simulation Period[b]	0.42	0.38	0.37	0.31	0.16	0.10	0.09	0.09	0.08	0.15	0.29	0.45
Water Year Types[c]												
Wet (32%)	0.30	0.24	0.19	0.13	0.10	0.07	0.08	0.08	0.06	0.06	0.17	0.33
Above Normal (16%)	0.55	0.49	0.38	0.26	0.12	0.07	0.10	0.10	0.07	0.08	0.20	0.29
Below Normal (13%)	0.30	0.26	0.33	0.33	0.16	0.09	0.10	0.11	0.07	0.15	0.28	0.56
Dry (24%)	0.42	0.41	0.45	0.43	0.20	0.10	0.10	0.09	0.07	0.22	0.40	0.53
Critical (15%)	0.62	0.63	0.66	0.53	0.29	0.16	0.12	0.13	0.17	0.32	0.49	0.63

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-0.01	0.00	-0.06	-0.09	-0.15	-0.06	0.02	0.03	-0.03	0.01	0.02	0.00
20%	-0.01	-0.07	-0.05	-0.10	-0.05	-0.03	0.03	0.03	0.00	0.02	0.06	-0.01
30%	-0.03	-0.09	-0.14	-0.16	-0.05	-0.01	0.02	0.03	0.00	0.01	0.03	-0.02
40%	-0.06	-0.09	-0.32	-0.18	-0.02	0.00	0.03	0.03	0.00	0.02	0.00	-0.03
50%	-0.08	-0.20	-0.36	-0.10	0.00	0.01	0.03	0.03	0.01	0.01	0.01	-0.08
60%	-0.50	-0.43	-0.37	-0.04	0.01	0.01	0.03	0.03	0.01	0.01	0.00	-0.12
70%	-0.48	-0.48	-0.33	-0.02	0.00	0.01	0.02	0.03	0.01	0.00	0.01	-0.14
80%	-0.46	-0.38	-0.21	0.00	0.00	0.00	0.02	0.02	0.01	0.00	0.01	-0.14
90%	-0.40	-0.24	-0.06	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	-0.11
Long Term												
Full Simulation Period[b]	-0.21	-0.20	-0.19	-0.07	-0.03	0.00	0.02	0.02	0.00	0.01	0.02	-0.07
Water Year Types[c]												
Wet (32%)	-0.26	-0.28	-0.20	-0.01	0.01	0.00	0.01	0.02	0.00	0.00	0.01	-0.09
Above Normal (16%)	-0.15	-0.11	-0.17	-0.09	-0.01	0.01	0.04	0.04	0.01	0.00	0.00	-0.23
Below Normal (13%)	-0.27	-0.25	-0.25	-0.15	-0.12	-0.03	0.03	0.04	0.01	0.00	0.00	0.03
Dry (24%)	-0.23	-0.19	-0.22	-0.08	-0.04	0.01	0.02	0.02	-0.01	0.04	0.05	-0.03
Critical (15%)	-0.11	-0.08	-0.11	-0.07	-0.02	-0.02	0.01	0.01	-0.02	0.00	0.01	-0.02

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.25.5. Old River at Rock Slough, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.78	0.83	0.85	0.70	0.46	0.19	0.10	0.09	0.12	0.28	0.47	0.64
20%	0.72	0.72	0.75	0.62	0.32	0.13	0.08	0.08	0.08	0.18	0.36	0.60
30%	0.69	0.66	0.73	0.56	0.22	0.10	0.08	0.07	0.07	0.17	0.33	0.57
40%	0.67	0.61	0.70	0.51	0.15	0.08	0.07	0.07	0.07	0.14	0.30	0.54
50%	0.64	0.59	0.61	0.38	0.12	0.07	0.06	0.06	0.06	0.11	0.25	0.53
60%	0.63	0.57	0.55	0.27	0.09	0.07	0.06	0.06	0.06	0.07	0.22	0.51
70%	0.60	0.54	0.46	0.13	0.08	0.06	0.06	0.06	0.05	0.06	0.18	0.50
80%	0.58	0.44	0.32	0.09	0.07	0.06	0.06	0.06	0.05	0.06	0.16	0.45
90%	0.51	0.30	0.12	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.15	0.39
Long Term												
Full Simulation Period[b]	0.63	0.58	0.56	0.38	0.19	0.10	0.07	0.07	0.08	0.14	0.28	0.52
Water Year Types[c]												
Wet (32%)	0.56	0.52	0.39	0.14	0.09	0.07	0.07	0.06	0.06	0.06	0.16	0.42
Above Normal (16%)	0.70	0.60	0.54	0.35	0.12	0.07	0.06	0.06	0.05	0.07	0.20	0.53
Below Normal (13%)	0.57	0.51	0.57	0.48	0.28	0.12	0.07	0.07	0.06	0.15	0.28	0.53
Dry (24%)	0.65	0.60	0.67	0.51	0.25	0.10	0.07	0.07	0.08	0.19	0.35	0.56
Critical (15%)	0.73	0.71	0.77	0.60	0.31	0.18	0.11	0.12	0.19	0.32	0.48	0.65

Alternative 3

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.78	0.82	0.85	0.63	0.31	0.12	0.10	0.09	0.13	0.34	0.49	0.66
20%	0.72	0.72	0.76	0.57	0.25	0.10	0.09	0.08	0.08	0.21	0.41	0.60
30%	0.69	0.66	0.72	0.52	0.20	0.09	0.08	0.07	0.07	0.19	0.33	0.57
40%	0.67	0.61	0.69	0.45	0.13	0.08	0.08	0.06	0.06	0.16	0.31	0.55
50%	0.64	0.59	0.60	0.39	0.10	0.08	0.07	0.06	0.06	0.11	0.27	0.53
60%	0.62	0.56	0.54	0.20	0.09	0.07	0.06	0.06	0.05	0.10	0.22	0.51
70%	0.59	0.54	0.45	0.11	0.08	0.06	0.06	0.05	0.05	0.06	0.18	0.50
80%	0.57	0.49	0.31	0.09	0.07	0.06	0.06	0.05	0.05	0.06	0.16	0.45
90%	0.52	0.34	0.12	0.07	0.06	0.05	0.05	0.05	0.05	0.06	0.14	0.40
Long Term												
Full Simulation Period[b]	0.63	0.59	0.55	0.34	0.16	0.09	0.08	0.07	0.08	0.16	0.28	0.52
Water Year Types[c]												
Wet (32%)	0.55	0.53	0.39	0.15	0.09	0.07	0.06	0.05	0.05	0.06	0.15	0.41
Above Normal (16%)	0.71	0.63	0.54	0.33	0.11	0.07	0.06	0.06	0.05	0.09	0.20	0.53
Below Normal (13%)	0.58	0.50	0.58	0.42	0.18	0.09	0.07	0.07	0.07	0.17	0.30	0.57
Dry (24%)	0.64	0.62	0.67	0.47	0.19	0.10	0.08	0.07	0.07	0.22	0.38	0.55
Critical (15%)	0.73	0.71	0.71	0.51	0.28	0.16	0.11	0.12	0.19	0.32	0.48	0.65

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.00	-0.01	0.00	-0.08	-0.15	-0.07	0.00	0.00	0.01	0.06	0.03	0.02
20%	0.00	0.00	0.02	-0.05	-0.07	-0.03	0.01	0.00	0.00	0.02	0.05	0.00
30%	0.01	0.00	-0.01	-0.04	-0.02	-0.01	0.00	0.00	0.00	0.02	0.00	0.00
40%	0.00	0.00	-0.01	-0.07	-0.03	0.00	0.01	0.00	0.00	0.02	0.01	0.02
50%	-0.01	0.00	-0.01	0.00	-0.02	0.00	0.01	0.00	0.00	0.00	0.02	0.01
60%	-0.01	0.00	-0.01	-0.08	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
70%	-0.01	0.00	-0.02	-0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
80%	-0.01	0.05	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90%	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01	0.01
Long Term												
Full Simulation Period[b]	0.00	0.01	-0.01	-0.03	-0.03	-0.01	0.00	0.00	0.00	0.02	0.01	0.00
Water Year Types[c]												
Wet (32%)	-0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	-0.01	0.01	-0.01	-0.01
Above Normal (16%)	0.02	0.03	-0.01	-0.02	-0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Below Normal (13%)	0.00	-0.01	0.00	-0.06	-0.10	-0.03	0.00	0.00	0.01	0.02	0.02	0.04
Dry (24%)	-0.01	0.02	0.00	-0.04	-0.05	0.00	0.01	0.00	0.00	0.03	0.03	-0.01
Critical (15%)	0.00	0.00	-0.06	-0.09	-0.04	-0.03	0.00	0.00	0.00	0.00	0.01	0.00

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.25.6. Old River at Rock Slough, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.78	0.83	0.85	0.70	0.46	0.19	0.10	0.09	0.12	0.28	0.47	0.64
20%	0.72	0.72	0.75	0.62	0.32	0.13	0.08	0.08	0.08	0.18	0.36	0.60
30%	0.69	0.66	0.73	0.56	0.22	0.10	0.08	0.07	0.07	0.17	0.33	0.57
40%	0.67	0.61	0.70	0.51	0.15	0.08	0.07	0.07	0.07	0.14	0.30	0.54
50%	0.64	0.59	0.61	0.38	0.12	0.07	0.06	0.06	0.06	0.11	0.25	0.53
60%	0.63	0.57	0.55	0.27	0.09	0.07	0.06	0.06	0.06	0.07	0.22	0.51
70%	0.60	0.54	0.46	0.13	0.08	0.06	0.06	0.06	0.05	0.06	0.18	0.50
80%	0.58	0.44	0.32	0.09	0.07	0.06	0.06	0.06	0.05	0.06	0.16	0.45
90%	0.51	0.30	0.12	0.07	0.06	0.05	0.05	0.05	0.05	0.05	0.15	0.39
Long Term												
Full Simulation Period[b]	0.63	0.58	0.56	0.38	0.19	0.10	0.07	0.07	0.08	0.14	0.28	0.52
Water Year Types[c]												
Wet (32%)	0.56	0.52	0.39	0.14	0.09	0.07	0.07	0.06	0.06	0.06	0.16	0.42
Above Normal (16%)	0.70	0.60	0.54	0.35	0.12	0.07	0.06	0.06	0.05	0.07	0.20	0.53
Below Normal (13%)	0.57	0.51	0.57	0.48	0.28	0.12	0.07	0.07	0.06	0.15	0.28	0.53
Dry (24%)	0.65	0.60	0.67	0.51	0.25	0.10	0.07	0.07	0.08	0.19	0.35	0.56
Critical (15%)	0.73	0.71	0.77	0.60	0.31	0.18	0.11	0.12	0.19	0.32	0.48	0.65

Alternative 5

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.80	0.83	0.78	0.66	0.31	0.13	0.15	0.16	0.11	0.30	0.50	0.64
20%	0.71	0.68	0.67	0.52	0.27	0.10	0.13	0.15	0.09	0.23	0.45	0.59
30%	0.66	0.58	0.59	0.40	0.19	0.09	0.13	0.14	0.08	0.19	0.37	0.57
40%	0.62	0.52	0.43	0.33	0.14	0.08	0.12	0.13	0.08	0.17	0.31	0.52
50%	0.55	0.40	0.23	0.28	0.12	0.08	0.11	0.12	0.07	0.11	0.26	0.45
60%	0.13	0.14	0.17	0.23	0.10	0.07	0.10	0.11	0.07	0.07	0.22	0.39
70%	0.12	0.06	0.14	0.11	0.08	0.07	0.09	0.10	0.06	0.06	0.20	0.37
80%	0.12	0.06	0.11	0.09	0.08	0.06	0.08	0.09	0.06	0.06	0.18	0.32
90%	0.11	0.05	0.06	0.08	0.07	0.06	0.07	0.05	0.06	0.05	0.16	0.28
Long Term												
Full Simulation Period[b]	0.42	0.38	0.37	0.31	0.17	0.10	0.11	0.12	0.08	0.16	0.30	0.46
Water Year Types[c]												
Wet (32%)	0.30	0.25	0.19	0.13	0.10	0.07	0.08	0.08	0.06	0.06	0.17	0.33
Above Normal (16%)	0.56	0.48	0.37	0.26	0.12	0.07	0.10	0.11	0.07	0.08	0.20	0.29
Below Normal (13%)	0.30	0.26	0.33	0.33	0.16	0.09	0.12	0.13	0.08	0.16	0.28	0.57
Dry (24%)	0.42	0.41	0.44	0.44	0.21	0.10	0.13	0.14	0.08	0.24	0.43	0.55
Critical (15%)	0.62	0.63	0.66	0.54	0.30	0.17	0.16	0.16	0.16	0.30	0.50	0.64

Alternative 5 minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.02	0.00	-0.07	-0.05	-0.15	-0.06	0.05	0.07	-0.01	0.02	0.03	0.00
20%	-0.01	-0.03	-0.07	-0.10	-0.05	-0.03	0.05	0.07	0.01	0.05	0.09	-0.01
30%	-0.02	-0.08	-0.14	-0.16	-0.03	-0.01	0.05	0.07	0.01	0.02	0.04	0.00
40%	-0.04	-0.10	-0.27	-0.18	-0.01	0.01	0.05	0.06	0.01	0.02	0.01	-0.01
50%	-0.09	-0.19	-0.38	-0.10	0.00	0.01	0.04	0.06	0.01	0.00	0.01	-0.07
60%	-0.50	-0.43	-0.38	-0.04	0.02	0.01	0.04	0.05	0.01	0.00	0.00	-0.12
70%	-0.48	-0.48	-0.33	-0.02	0.00	0.01	0.03	0.04	0.01	0.00	0.01	-0.14
80%	-0.46	-0.38	-0.21	0.00	0.00	0.00	0.03	0.04	0.01	0.00	0.01	-0.14
90%	-0.40	-0.24	-0.06	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	-0.11
Long Term												
Full Simulation Period[b]	-0.21	-0.20	-0.20	-0.06	-0.02	0.00	0.04	0.05	0.00	0.01	0.03	-0.06
Water Year Types[c]												
Wet (32%)	-0.26	-0.27	-0.20	-0.01	0.01	0.00	0.01	0.02	0.01	0.00	0.01	-0.09
Above Normal (16%)	-0.14	-0.11	-0.18	-0.09	-0.01	0.01	0.04	0.05	0.01	0.00	0.00	-0.23
Below Normal (13%)	-0.27	-0.25	-0.25	-0.15	-0.12	-0.03	0.05	0.06	0.01	0.00	0.00	0.04
Dry (24%)	-0.22	-0.19	-0.22	-0.07	-0.04	0.01	0.06	0.07	0.00	0.06	0.08	-0.01
Critical (15%)	-0.10	-0.08	-0.11	-0.07	-0.01	-0.01	0.05	0.04	-0.02	-0.01	0.02	-0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.26. Contra Costa Water District Old River Intake Bromide Concentration

Table 6E.B.26.1. Contra Costa Water District Old River Intake, Monthly Bromide Concentration

No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.63	0.69	0.70	0.61	0.38	0.30	0.17	0.15	0.13	0.25	0.41	0.52
20%	0.59	0.55	0.60	0.52	0.32	0.15	0.15	0.14	0.11	0.19	0.35	0.49
30%	0.54	0.49	0.51	0.42	0.27	0.13	0.13	0.14	0.10	0.16	0.30	0.44
40%	0.51	0.45	0.40	0.35	0.22	0.12	0.12	0.13	0.09	0.15	0.25	0.41
50%	0.48	0.37	0.25	0.33	0.16	0.11	0.11	0.12	0.09	0.10	0.23	0.37
60%	0.17	0.16	0.19	0.28	0.14	0.10	0.09	0.11	0.09	0.08	0.19	0.35
70%	0.16	0.08	0.13	0.15	0.11	0.10	0.09	0.11	0.08	0.07	0.17	0.32
80%	0.15	0.07	0.09	0.12	0.11	0.09	0.08	0.09	0.08	0.07	0.16	0.28
90%	0.14	0.07	0.08	0.10	0.09	0.08	0.05	0.04	0.07	0.07	0.14	0.26
Long Term												
Full Simulation Period[b]	0.36	0.33	0.34	0.33	0.22	0.14	0.11	0.12	0.10	0.14	0.25	0.38
Water Year Types[c]												
Wet (32%)	0.28	0.23	0.19	0.17	0.12	0.09	0.07	0.08	0.08	0.07	0.15	0.30
Above Normal (16%)	0.46	0.42	0.36	0.30	0.17	0.10	0.10	0.11	0.09	0.07	0.17	0.27
Below Normal (13%)	0.29	0.23	0.29	0.34	0.23	0.13	0.13	0.14	0.10	0.14	0.24	0.46
Dry (24%)	0.36	0.36	0.39	0.43	0.28	0.16	0.13	0.13	0.10	0.19	0.34	0.44
Critical (15%)	0.51	0.52	0.57	0.52	0.36	0.27	0.18	0.16	0.18	0.26	0.40	0.50

Alternative 1

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.63	0.69	0.72	0.64	0.46	0.24	0.13	0.12	0.13	0.24	0.38	0.51
20%	0.60	0.59	0.64	0.58	0.37	0.17	0.11	0.11	0.10	0.17	0.30	0.49
30%	0.57	0.55	0.62	0.53	0.26	0.14	0.10	0.10	0.09	0.15	0.28	0.46
40%	0.56	0.52	0.58	0.50	0.18	0.11	0.09	0.08	0.08	0.12	0.25	0.44
50%	0.54	0.49	0.53	0.42	0.14	0.10	0.08	0.08	0.08	0.08	0.21	0.42
60%	0.53	0.48	0.48	0.30	0.12	0.09	0.08	0.08	0.07	0.07	0.19	0.41
70%	0.50	0.46	0.43	0.16	0.11	0.08	0.08	0.07	0.07	0.07	0.16	0.40
80%	0.49	0.40	0.29	0.11	0.09	0.07	0.07	0.07	0.07	0.07	0.15	0.37
90%	0.44	0.29	0.10	0.09	0.08	0.07	0.06	0.07	0.06	0.07	0.14	0.33
Long Term												
Full Simulation Period[b]	0.52	0.49	0.49	0.37	0.21	0.13	0.10	0.09	0.10	0.13	0.23	0.42
Water Year Types[c]												
Wet (32%)	0.47	0.44	0.36	0.17	0.10	0.09	0.07	0.07	0.07	0.07	0.14	0.35
Above Normal (16%)	0.57	0.51	0.48	0.36	0.15	0.09	0.08	0.07	0.07	0.07	0.17	0.43
Below Normal (13%)	0.49	0.44	0.49	0.45	0.31	0.16	0.10	0.09	0.07	0.14	0.24	0.43
Dry (24%)	0.54	0.51	0.57	0.48	0.27	0.13	0.10	0.10	0.09	0.16	0.30	0.46
Critical (15%)	0.60	0.59	0.65	0.57	0.35	0.24	0.16	0.14	0.20	0.26	0.39	0.52

Alternative 1 minus No Action Alternative

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.00	0.00	0.02	0.03	0.07	-0.06	-0.04	-0.04	0.00	-0.01	-0.03	0.00
20%	0.01	0.04	0.04	0.06	0.05	0.02	-0.03	-0.03	-0.01	-0.02	-0.06	0.01
30%	0.03	0.07	0.11	0.11	-0.01	0.01	-0.04	-0.04	-0.01	-0.01	-0.02	0.02
40%	0.05	0.07	0.18	0.14	-0.04	-0.01	-0.03	-0.04	-0.01	-0.03	0.00	0.03
50%	0.06	0.12	0.28	0.09	-0.03	-0.01	-0.03	-0.04	-0.01	-0.02	-0.01	0.06
60%	0.36	0.32	0.29	0.01	-0.02	-0.01	-0.01	-0.04	-0.01	0.00	0.00	0.07
70%	0.35	0.38	0.30	0.01	0.00	-0.02	-0.01	-0.03	-0.02	0.00	-0.01	0.08
80%	0.34	0.33	0.20	-0.01	-0.02	-0.01	0.00	-0.02	-0.01	0.00	-0.01	0.09
90%	0.30	0.22	0.02	-0.02	-0.01	-0.01	0.01	0.02	-0.01	0.00	0.00	0.06
Long Term												
Full Simulation Period[b]	0.16	0.16	0.15	0.04	0.00	-0.01	-0.02	-0.03	-0.01	-0.01	-0.02	0.04
Water Year Types[c]												
Wet (32%)	0.19	0.22	0.17	-0.01	-0.02	0.00	0.00	-0.01	-0.01	0.00	-0.01	0.05
Above Normal (16%)	0.12	0.09	0.12	0.06	-0.02	-0.01	-0.02	-0.04	-0.02	0.00	0.00	0.16
Below Normal (13%)	0.19	0.20	0.19	0.11	0.08	0.02	-0.03	-0.05	-0.02	0.00	0.00	-0.03
Dry (24%)	0.17	0.15	0.18	0.05	-0.01	-0.04	-0.03	-0.03	0.00	-0.04	-0.05	0.02
Critical (15%)	0.09	0.07	0.09	0.05	-0.01	-0.03	-0.02	-0.02	0.02	0.00	-0.01	0.02

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.26.2. Contra Costa Water District Old River Intake, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.63	0.69	0.70	0.61	0.38	0.30	0.17	0.15	0.13	0.25	0.41	0.52
20%	0.59	0.55	0.60	0.52	0.32	0.15	0.15	0.14	0.11	0.19	0.35	0.49
30%	0.54	0.49	0.51	0.42	0.27	0.13	0.13	0.14	0.10	0.16	0.30	0.44
40%	0.51	0.45	0.40	0.35	0.22	0.12	0.12	0.13	0.09	0.15	0.25	0.41
50%	0.48	0.37	0.25	0.33	0.16	0.11	0.11	0.12	0.09	0.10	0.23	0.37
60%	0.17	0.16	0.19	0.28	0.14	0.10	0.09	0.11	0.09	0.08	0.19	0.35
70%	0.16	0.08	0.13	0.15	0.11	0.10	0.09	0.11	0.08	0.07	0.17	0.32
80%	0.15	0.07	0.09	0.12	0.11	0.09	0.08	0.09	0.08	0.07	0.16	0.28
90%	0.14	0.07	0.08	0.10	0.09	0.08	0.05	0.04	0.07	0.07	0.14	0.26
Long Term												
Full Simulation Period[b]	0.36	0.33	0.34	0.33	0.22	0.14	0.11	0.12	0.10	0.14	0.25	0.38
Water Year Types[c]												
Wet (32%)	0.28	0.23	0.19	0.17	0.12	0.09	0.07	0.08	0.08	0.07	0.15	0.30
Above Normal (16%)	0.46	0.42	0.36	0.30	0.17	0.10	0.10	0.11	0.09	0.07	0.17	0.27
Below Normal (13%)	0.29	0.23	0.29	0.34	0.23	0.13	0.13	0.14	0.10	0.14	0.24	0.46
Dry (24%)	0.36	0.36	0.39	0.43	0.28	0.16	0.13	0.13	0.10	0.19	0.34	0.44
Critical (15%)	0.51	0.52	0.57	0.52	0.36	0.27	0.18	0.16	0.18	0.26	0.40	0.50

Alternative 3

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.63	0.68	0.71	0.61	0.39	0.17	0.15	0.14	0.13	0.28	0.41	0.53
20%	0.60	0.60	0.65	0.57	0.32	0.14	0.13	0.11	0.09	0.18	0.34	0.49
30%	0.57	0.55	0.60	0.50	0.28	0.13	0.12	0.09	0.08	0.17	0.27	0.46
40%	0.56	0.51	0.57	0.46	0.19	0.12	0.11	0.09	0.08	0.14	0.26	0.45
50%	0.54	0.49	0.53	0.43	0.14	0.11	0.09	0.08	0.07	0.11	0.23	0.43
60%	0.52	0.48	0.49	0.26	0.13	0.10	0.08	0.07	0.07	0.08	0.19	0.41
70%	0.50	0.47	0.44	0.15	0.11	0.09	0.08	0.07	0.07	0.07	0.16	0.40
80%	0.48	0.42	0.30	0.13	0.10	0.08	0.08	0.07	0.06	0.07	0.15	0.36
90%	0.43	0.33	0.10	0.09	0.08	0.07	0.07	0.06	0.06	0.07	0.13	0.32
Long Term												
Full Simulation Period[b]	0.52	0.50	0.49	0.36	0.21	0.13	0.10	0.09	0.09	0.14	0.24	0.42
Water Year Types[c]												
Wet (32%)	0.46	0.45	0.36	0.19	0.11	0.09	0.07	0.06	0.06	0.07	0.14	0.33
Above Normal (16%)	0.59	0.53	0.48	0.37	0.16	0.09	0.08	0.07	0.07	0.07	0.17	0.43
Below Normal (13%)	0.49	0.43	0.49	0.43	0.25	0.13	0.11	0.09	0.08	0.16	0.25	0.47
Dry (24%)	0.53	0.52	0.57	0.47	0.26	0.15	0.12	0.10	0.08	0.19	0.32	0.45
Critical (15%)	0.59	0.59	0.61	0.50	0.34	0.23	0.17	0.15	0.19	0.27	0.39	0.52

Alternative 3 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	**-0.02**	0.00	**0.00**	0.01	**-0.13**	**-0.02**	**-0.02**	**0.00**	0.03	0.00	0.02
20%	0.02	0.05	0.05	0.04	0.00	**-0.01**	**-0.02**	**-0.03**	**-0.02**	**-0.01**	**-0.02**	0.01
30%	0.03	0.06	0.10	0.08	0.01	**-0.01**	**-0.01**	**-0.04**	**-0.01**	0.01	**-0.02**	0.02
40%	0.04	0.06	0.17	0.11	**-0.03**	**0.00**	**-0.02**	**-0.04**	**-0.02**	**-0.01**	0.01	0.04
50%	0.06	0.12	0.28	0.11	**-0.02**	**0.00**	**-0.02**	**-0.04**	**-0.02**	0.01	0.00	0.06
60%	0.35	0.32	0.30	**-0.02**	**-0.01**	**-0.01**	**-0.01**	**-0.04**	**-0.02**	0.00	**0.00**	0.07
70%	0.35	0.39	0.31	0.00	**0.00**	**-0.01**	**-0.01**	**-0.04**	**-0.02**	**0.00**	**-0.01**	0.08
80%	0.34	0.35	0.21	0.01	**-0.01**	**-0.01**	0.00	**-0.02**	**-0.02**	**0.00**	**-0.01**	0.08
90%	0.30	0.26	0.03	**-0.01**	**-0.01**	**-0.01**	0.01	0.02	**-0.01**	**0.00**	**-0.01**	0.06
Long Term												
Full Simulation Period[b]	0.16	0.17	0.15	0.03	**-0.01**	**-0.01**	**-0.01**	**-0.03**	**-0.01**	0.00	**-0.01**	0.04
Water Year Types[c]												
Wet (32%)	0.18	0.22	0.17	0.01	**-0.01**	**-0.01**	0.00	**-0.01**	**-0.01**	**0.00**	**-0.02**	0.04
Above Normal (16%)	0.13	0.11	0.13	0.07	**-0.01**	**-0.01**	**-0.02**	**-0.04**	**-0.02**	**0.00**	**0.00**	0.16
Below Normal (13%)	0.19	0.20	0.20	0.09	0.01	**-0.01**	**-0.02**	**-0.04**	**-0.02**	0.02	0.01	0.01
Dry (24%)	0.17	0.17	0.18	0.04	**-0.02**	**-0.02**	**-0.01**	**-0.03**	**-0.01**	**-0.01**	**-0.02**	0.01
Critical (15%)	0.09	0.07	0.04	**-0.02**	**-0.02**	**-0.04**	**-0.01**	**-0.01**	0.01	0.00	**0.00**	0.02

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.26.3. Contra Costa Water District Old River Intake, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.63	0.69	0.70	0.61	0.38	0.30	0.17	0.15	0.13	0.25	0.41	0.52
20%	0.59	0.55	0.60	0.52	0.32	0.15	0.15	0.14	0.11	0.19	0.35	0.49
30%	0.54	0.49	0.51	0.42	0.27	0.13	0.13	0.14	0.10	0.16	0.30	0.44
40%	0.51	0.45	0.40	0.35	0.22	0.12	0.12	0.13	0.09	0.15	0.25	0.41
50%	0.48	0.37	0.25	0.33	0.16	0.11	0.11	0.12	0.09	0.10	0.23	0.37
60%	0.17	0.16	0.19	0.28	0.14	0.10	0.09	0.11	0.09	0.08	0.19	0.35
70%	0.16	0.08	0.13	0.15	0.11	0.10	0.09	0.11	0.08	0.07	0.17	0.32
80%	0.15	0.07	0.09	0.12	0.11	0.09	0.08	0.09	0.08	0.07	0.16	0.28
90%	0.14	0.07	0.08	0.10	0.09	0.08	0.05	0.04	0.07	0.07	0.14	0.26
Long Term												
Full Simulation Period[b]	0.36	0.33	0.34	0.33	0.22	0.14	0.11	0.12	0.10	0.14	0.25	0.38
Water Year Types[c]												
Wet (32%)	0.28	0.23	0.19	0.17	0.12	0.09	0.07	0.08	0.08	0.07	0.15	0.30
Above Normal (16%)	0.46	0.42	0.36	0.30	0.17	0.10	0.10	0.11	0.09	0.07	0.17	0.27
Below Normal (13%)	0.29	0.23	0.29	0.34	0.23	0.13	0.13	0.14	0.10	0.14	0.24	0.46
Dry (24%)	0.36	0.36	0.39	0.43	0.28	0.16	0.13	0.13	0.10	0.19	0.34	0.44
Critical (15%)	0.51	0.52	0.57	0.52	0.36	0.27	0.18	0.16	0.18	0.26	0.40	0.50

Alternative 5

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.64	0.69	0.70	0.62	0.39	0.30	0.19	0.18	0.15	0.26	0.41	0.52
20%	0.59	0.57	0.59	0.53	0.32	0.15	0.17	0.18	0.12	0.20	0.37	0.49
30%	0.55	0.50	0.51	0.42	0.27	0.13	0.15	0.16	0.11	0.17	0.32	0.46
40%	0.52	0.44	0.41	0.35	0.22	0.12	0.13	0.14	0.10	0.15	0.25	0.43
50%	0.47	0.38	0.24	0.33	0.16	0.11	0.11	0.12	0.09	0.10	0.23	0.37
60%	0.17	0.16	0.19	0.28	0.14	0.10	0.09	0.11	0.09	0.08	0.19	0.35
70%	0.16	0.08	0.13	0.15	0.12	0.10	0.09	0.11	0.09	0.07	0.17	0.33
80%	0.15	0.07	0.09	0.12	0.10	0.09	0.07	0.09	0.08	0.07	0.16	0.29
90%	0.10	0.07	0.08	0.10	0.09	0.08	0.05	0.04	0.07	0.07	0.14	0.25
Long Term												
Full Simulation Period[b]	0.37	0.33	0.34	0.33	0.22	0.14	0.12	0.12	0.10	0.14	0.25	0.38
Water Year Types[c]												
Wet (32%)	0.28	0.23	0.20	0.17	0.12	0.09	0.07	0.07	0.08	0.07	0.15	0.30
Above Normal (16%)	0.47	0.42	0.35	0.30	0.17	0.10	0.10	0.11	0.09	0.07	0.17	0.27
Below Normal (13%)	0.29	0.24	0.29	0.34	0.23	0.13	0.12	0.14	0.11	0.14	0.24	0.46
Dry (24%)	0.37	0.35	0.39	0.44	0.28	0.17	0.15	0.16	0.11	0.21	0.36	0.46
Critical (15%)	0.51	0.52	0.56	0.52	0.36	0.27	0.19	0.18	0.15	0.26	0.40	0.51

Alternative 5 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	0.00	-0.01	0.00	0.00	0.00	0.01	0.03	0.02	0.01	0.00	0.00
20%	0.01	0.02	-0.01	0.01	0.00	0.00	0.02	0.03	0.01	0.01	0.02	0.01
30%	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.01	0.02	0.01
40%	0.01	-0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.02
50%	0.00	0.01	0.00	0.00	-0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.01
60%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70%	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
80%	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
90%	-0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.01
Long Term												
Full Simulation Period[b]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01
Water Year Types[c]												
Wet (32%)	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Above Normal (16%)	0.01	0.00	-0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Below Normal (13%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01
Dry (24%)	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.03	0.02	0.01	0.02	0.02
Critical (15%)	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	-0.03	-0.01	0.01	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.26.4. Contra Costa Water District Old River Intake, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.63	0.69	0.72	0.64	0.46	0.24	0.13	0.12	0.13	0.24	0.38	0.51
20%	0.60	0.59	0.64	0.58	0.37	0.17	0.11	0.11	0.10	0.17	0.30	0.49
30%	0.57	0.55	0.62	0.53	0.26	0.14	0.10	0.10	0.09	0.15	0.28	0.46
40%	0.56	0.52	0.58	0.50	0.18	0.11	0.09	0.08	0.08	0.12	0.25	0.44
50%	0.54	0.49	0.53	0.42	0.14	0.10	0.08	0.08	0.08	0.08	0.21	0.42
60%	0.53	0.48	0.48	0.30	0.12	0.09	0.08	0.08	0.07	0.07	0.19	0.41
70%	0.50	0.46	0.43	0.16	0.11	0.08	0.08	0.07	0.07	0.07	0.16	0.40
80%	0.49	0.40	0.29	0.11	0.09	0.07	0.07	0.07	0.07	0.07	0.15	0.37
90%	0.44	0.29	0.10	0.09	0.08	0.07	0.06	0.07	0.06	0.07	0.14	0.33
Long Term												
Full Simulation Period[b]	0.52	0.49	0.49	0.37	0.21	0.13	0.10	0.09	0.10	0.13	0.23	0.42
Water Year Types[c]												
Wet (32%)	0.47	0.44	0.36	0.17	0.10	0.09	0.07	0.07	0.07	0.07	0.14	0.35
Above Normal (16%)	0.57	0.51	0.48	0.36	0.15	0.09	0.08	0.07	0.07	0.07	0.17	0.43
Below Normal (13%)	0.49	0.44	0.49	0.45	0.31	0.16	0.10	0.09	0.07	0.14	0.24	0.43
Dry (24%)	0.54	0.51	0.57	0.48	0.27	0.13	0.10	0.10	0.09	0.16	0.30	0.46
Critical (15%)	0.60	0.59	0.65	0.57	0.35	0.24	0.16	0.14	0.20	0.26	0.39	0.52

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.63	0.69	0.70	0.61	0.38	0.30	0.17	0.15	0.13	0.25	0.41	0.52
20%	0.59	0.55	0.60	0.52	0.32	0.15	0.15	0.14	0.11	0.19	0.35	0.49
30%	0.54	0.49	0.51	0.42	0.27	0.13	0.13	0.14	0.10	0.16	0.30	0.44
40%	0.51	0.45	0.40	0.35	0.22	0.12	0.12	0.13	0.09	0.15	0.25	0.41
50%	0.48	0.37	0.25	0.33	0.16	0.11	0.11	0.12	0.09	0.10	0.23	0.37
60%	0.17	0.16	0.19	0.28	0.14	0.10	0.09	0.11	0.09	0.08	0.19	0.35
70%	0.16	0.08	0.13	0.15	0.11	0.10	0.09	0.11	0.08	0.07	0.17	0.32
80%	0.15	0.07	0.09	0.12	0.11	0.09	0.08	0.09	0.08	0.07	0.16	0.28
90%	0.14	0.07	0.08	0.10	0.09	0.08	0.05	0.04	0.07	0.07	0.14	0.26
Long Term												
Full Simulation Period[b]	0.36	0.33	0.34	0.33	0.22	0.14	0.11	0.12	0.10	0.14	0.25	0.38
Water Year Types[c]												
Wet (32%)	0.28	0.23	0.19	0.17	0.12	0.09	0.07	0.08	0.08	0.07	0.15	0.30
Above Normal (16%)	0.46	0.42	0.36	0.30	0.17	0.10	0.10	0.11	0.09	0.07	0.17	0.27
Below Normal (13%)	0.29	0.23	0.29	0.34	0.23	0.13	0.13	0.14	0.10	0.14	0.24	0.46
Dry (24%)	0.36	0.36	0.39	0.43	0.28	0.16	0.13	0.13	0.10	0.19	0.34	0.44
Critical (15%)	0.51	0.52	0.57	0.52	0.36	0.27	0.18	0.16	0.18	0.26	0.40	0.50

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.00	0.00	-0.02	-0.03	-0.07	0.06	0.04	0.04	0.00	0.01	0.03	0.00
20%	-0.01	-0.04	-0.04	-0.06	-0.05	-0.02	0.03	0.03	0.01	0.02	0.06	-0.01
30%	-0.03	-0.07	-0.11	-0.11	0.01	-0.01	0.04	0.04	0.01	0.01	0.02	-0.02
40%	-0.05	-0.07	-0.18	-0.14	0.04	0.01	0.03	0.04	0.01	0.03	0.00	-0.03
50%	-0.06	-0.12	-0.28	-0.09	0.03	0.01	0.03	0.04	0.01	0.02	0.01	-0.06
60%	-0.36	-0.32	-0.29	-0.01	0.02	0.01	0.01	0.04	0.01	0.00	0.00	-0.07
70%	-0.35	-0.38	-0.30	-0.01	0.00	0.02	0.01	0.03	0.02	0.00	0.01	-0.08
80%	-0.34	-0.33	-0.20	0.01	0.02	0.01	0.00	0.02	0.01	0.00	0.01	-0.09
90%	-0.30	-0.22	-0.02	0.02	0.01	0.01	-0.01	-0.02	0.01	0.00	0.00	-0.06
Long Term												
Full Simulation Period[b]	-0.16	-0.16	-0.15	-0.04	0.00	0.01	0.02	0.03	0.01	0.01	0.02	-0.04
Water Year Types[c]												
Wet (32%)	-0.19	-0.22	-0.17	0.01	0.02	0.00	0.00	0.01	0.01	0.00	0.01	-0.05
Above Normal (16%)	-0.12	-0.09	-0.12	-0.06	0.02	0.01	0.02	0.04	0.02	0.00	0.00	-0.16
Below Normal (13%)	-0.19	-0.20	-0.19	-0.11	-0.08	-0.02	0.03	0.05	0.02	0.00	0.00	0.03
Dry (24%)	-0.17	-0.15	-0.18	-0.05	0.01	0.04	0.03	0.03	0.00	0.04	0.05	-0.02
Critical (15%)	-0.09	-0.07	-0.09	-0.05	0.01	0.03	0.02	0.02	-0.02	0.00	0.01	-0.02

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.26.5. Contra Costa Water District Old River Intake, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.63	0.69	0.72	0.64	0.46	0.24	0.13	0.12	0.13	0.24	0.38	0.51
20%	0.60	0.59	0.64	0.58	0.37	0.17	0.11	0.11	0.10	0.17	0.30	0.49
30%	0.57	0.55	0.62	0.53	0.26	0.14	0.10	0.10	0.09	0.15	0.28	0.46
40%	0.56	0.52	0.58	0.50	0.18	0.11	0.09	0.08	0.08	0.12	0.25	0.44
50%	0.54	0.49	0.53	0.42	0.14	0.10	0.08	0.08	0.08	0.08	0.21	0.42
60%	0.53	0.48	0.48	0.30	0.12	0.09	0.08	0.08	0.07	0.07	0.19	0.41
70%	0.50	0.46	0.43	0.16	0.11	0.08	0.08	0.07	0.07	0.07	0.16	0.40
80%	0.49	0.40	0.29	0.11	0.09	0.07	0.07	0.07	0.07	0.07	0.15	0.37
90%	0.44	0.29	0.10	0.09	0.08	0.07	0.06	0.07	0.06	0.07	0.14	0.33
Long Term												
Full Simulation Period[b]	0.52	0.49	0.49	0.37	0.21	0.13	0.10	0.09	0.10	0.13	0.23	0.42
Water Year Types[c]												
Wet (32%)	0.47	0.44	0.36	0.17	0.10	0.09	0.07	0.07	0.07	0.07	0.14	0.35
Above Normal (16%)	0.57	0.51	0.48	0.36	0.15	0.09	0.08	0.07	0.07	0.07	0.17	0.43
Below Normal (13%)	0.49	0.44	0.49	0.45	0.31	0.16	0.10	0.09	0.07	0.14	0.24	0.43
Dry (24%)	0.54	0.51	0.57	0.48	0.27	0.13	0.10	0.10	0.09	0.16	0.30	0.46
Critical (15%)	0.60	0.59	0.65	0.57	0.35	0.24	0.16	0.14	0.20	0.26	0.39	0.52

Alternative 3

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.63	0.68	0.71	0.61	0.39	0.17	0.15	0.14	0.13	0.28	0.41	0.53
20%	0.60	0.60	0.65	0.57	0.32	0.14	0.13	0.11	0.09	0.18	0.34	0.49
30%	0.57	0.55	0.60	0.50	0.28	0.13	0.12	0.09	0.08	0.17	0.27	0.46
40%	0.56	0.51	0.57	0.46	0.19	0.12	0.11	0.09	0.08	0.14	0.26	0.45
50%	0.54	0.49	0.53	0.43	0.14	0.11	0.09	0.08	0.07	0.11	0.23	0.43
60%	0.52	0.48	0.49	0.26	0.13	0.10	0.08	0.07	0.07	0.08	0.19	0.41
70%	0.50	0.47	0.44	0.15	0.11	0.09	0.08	0.07	0.07	0.07	0.16	0.40
80%	0.48	0.42	0.30	0.13	0.10	0.08	0.08	0.07	0.06	0.07	0.15	0.36
90%	0.43	0.33	0.10	0.09	0.08	0.07	0.07	0.06	0.06	0.07	0.13	0.32
Long Term												
Full Simulation Period[b]	0.52	0.50	0.49	0.36	0.21	0.13	0.10	0.09	0.09	0.14	0.24	0.42
Water Year Types[c]												
Wet (32%)	0.46	0.45	0.36	0.19	0.11	0.09	0.07	0.06	0.06	0.07	0.14	0.33
Above Normal (16%)	0.59	0.53	0.48	0.37	0.16	0.09	0.08	0.07	0.07	0.07	0.17	0.43
Below Normal (13%)	0.49	0.43	0.49	0.43	0.25	0.13	0.11	0.09	0.08	0.16	0.25	0.47
Dry (24%)	0.53	0.52	0.57	0.47	0.26	0.15	0.12	0.10	0.08	0.19	0.32	0.45
Critical (15%)	0.59	0.59	0.61	0.50	0.34	0.23	0.17	0.15	0.19	0.27	0.39	0.52

Alternative 3 minus Second Basis of Comparison

Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
	Monthly Bromide Concentration (mg/L)											
Probability of Exceedance[a]												
10%	0.00	-0.01	-0.02	-0.04	-0.07	-0.06	0.02	0.02	0.00	0.04	0.03	0.02
20%	0.01	0.01	0.01	-0.02	-0.04	-0.03	0.02	0.00	-0.01	0.02	0.04	0.00
30%	-0.01	0.00	-0.02	-0.03	0.02	-0.02	0.02	0.00	0.00	0.02	0.00	0.00
40%	0.00	-0.01	-0.01	-0.03	0.01	0.01	0.02	0.00	0.00	0.02	0.01	0.01
50%	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00	0.02	0.01	0.01
60%	-0.01	0.00	0.01	-0.04	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00
70%	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80%	0.00	0.02	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90%	0.00	0.04	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	-0.01	0.00
Long Term												
Full Simulation Period[b]	0.00	0.01	0.00	-0.01	-0.01	0.00	0.01	0.00	-0.01	0.01	0.01	0.00
Water Year Types[c]												
Wet (32%)	-0.01	0.01	0.00	0.02	0.01	0.00	0.00	0.00	-0.01	0.00	-0.01	-0.01
Above Normal (16%)	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Below Normal (13%)	0.00	-0.01	0.00	-0.02	-0.06	-0.03	0.01	0.01	0.01	0.02	0.01	0.04
Dry (24%)	-0.01	0.01	0.00	-0.01	-0.01	0.02	0.02	0.00	-0.01	0.03	0.03	0.00
Critical (15%)	0.00	0.00	-0.04	-0.07	-0.01	-0.01	0.01	0.01	-0.01	0.00	0.01	0.00

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.26.6. Contra Costa Water District Old River Intake, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.63	0.69	0.72	0.64	0.46	0.24	0.13	0.12	0.13	0.24	0.38	0.51
20%	0.60	0.59	0.64	0.58	0.37	0.17	0.11	0.11	0.10	0.17	0.30	0.49
30%	0.57	0.55	0.62	0.53	0.26	0.14	0.10	0.10	0.09	0.15	0.28	0.46
40%	0.56	0.52	0.58	0.50	0.18	0.11	0.09	0.08	0.08	0.12	0.25	0.44
50%	0.54	0.49	0.53	0.42	0.14	0.10	0.08	0.08	0.08	0.08	0.21	0.42
60%	0.53	0.48	0.48	0.30	0.12	0.09	0.08	0.08	0.07	0.07	0.19	0.41
70%	0.50	0.46	0.43	0.16	0.11	0.08	0.08	0.07	0.07	0.07	0.16	0.40
80%	0.49	0.40	0.29	0.11	0.09	0.07	0.07	0.07	0.07	0.07	0.15	0.37
90%	0.44	0.29	0.10	0.09	0.08	0.07	0.06	0.07	0.06	0.07	0.14	0.33
Long Term												
Full Simulation Period[b]	0.52	0.49	0.49	0.37	0.21	0.13	0.10	0.09	0.10	0.13	0.23	0.42
Water Year Types[c]												
Wet (32%)	0.47	0.44	0.36	0.17	0.10	0.09	0.07	0.07	0.07	0.07	0.14	0.35
Above Normal (16%)	0.57	0.51	0.48	0.36	0.15	0.09	0.08	0.07	0.07	0.07	0.17	0.43
Below Normal (13%)	0.49	0.44	0.49	0.45	0.31	0.16	0.10	0.09	0.07	0.14	0.24	0.43
Dry (24%)	0.54	0.51	0.57	0.48	0.27	0.13	0.10	0.10	0.09	0.16	0.30	0.46
Critical (15%)	0.60	0.59	0.65	0.57	0.35	0.24	0.16	0.14	0.20	0.26	0.39	0.52

Alternative 5

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.64	0.69	0.70	0.62	0.39	0.30	0.19	0.18	0.15	0.26	0.41	0.52
20%	0.59	0.57	0.59	0.53	0.32	0.15	0.17	0.18	0.12	0.20	0.37	0.49
30%	0.55	0.50	0.51	0.42	0.27	0.13	0.15	0.16	0.11	0.17	0.32	0.46
40%	0.52	0.44	0.41	0.35	0.22	0.12	0.13	0.14	0.10	0.15	0.25	0.43
50%	0.47	0.38	0.24	0.33	0.16	0.11	0.11	0.12	0.09	0.10	0.23	0.37
60%	0.17	0.16	0.19	0.28	0.14	0.10	0.09	0.11	0.09	0.08	0.19	0.35
70%	0.16	0.08	0.13	0.15	0.12	0.10	0.09	0.11	0.09	0.07	0.17	0.33
80%	0.15	0.07	0.09	0.12	0.10	0.09	0.07	0.09	0.08	0.07	0.16	0.29
90%	0.10	0.07	0.08	0.10	0.09	0.08	0.05	0.04	0.07	0.07	0.14	0.25
Long Term												
Full Simulation Period[b]	0.37	0.33	0.34	0.33	0.22	0.14	0.12	0.12	0.10	0.14	0.25	0.38
Water Year Types[c]												
Wet (32%)	0.28	0.23	0.20	0.17	0.12	0.09	0.07	0.07	0.08	0.07	0.15	0.30
Above Normal (16%)	0.47	0.42	0.35	0.30	0.17	0.10	0.10	0.11	0.09	0.07	0.17	0.27
Below Normal (13%)	0.29	0.24	0.29	0.34	0.23	0.13	0.12	0.14	0.11	0.14	0.24	0.46
Dry (24%)	0.37	0.35	0.39	0.44	0.28	0.17	0.15	0.16	0.11	0.21	0.36	0.46
Critical (15%)	0.51	0.52	0.56	0.52	0.36	0.27	0.19	0.18	0.15	0.26	0.40	0.51

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	0.00	-0.03	-0.03	-0.07	0.06	0.06	0.06	0.03	0.02	0.03	0.01
20%	0.00	-0.02	-0.06	-0.05	-0.05	-0.02	0.06	0.07	0.02	0.03	0.08	0.00
30%	-0.02	-0.06	-0.11	-0.11	0.01	-0.01	0.05	0.06	0.03	0.02	0.04	-0.01
40%	-0.04	-0.07	-0.17	-0.14	0.04	0.01	0.04	0.05	0.02	0.03	0.00	-0.01
50%	-0.07	-0.11	-0.29	-0.09	0.02	0.01	0.03	0.04	0.02	0.02	0.01	-0.05
60%	-0.36	-0.33	-0.29	-0.01	0.02	0.01	0.01	0.03	0.02	0.00	0.00	-0.06
70%	-0.35	-0.38	-0.30	-0.01	0.01	0.02	0.01	0.03	0.02	0.00	0.01	-0.08
80%	-0.34	-0.33	-0.20	0.01	0.02	0.01	0.00	0.02	0.02	0.00	0.01	-0.08
90%	-0.34	-0.22	-0.02	0.02	0.01	0.01	-0.01	-0.02	0.01	0.00	0.00	-0.07
Long Term												
Full Simulation Period[b]	-0.16	-0.16	-0.15	-0.04	0.00	0.01	0.02	0.03	0.01	0.01	0.02	-0.04
Water Year Types[c]												
Wet (32%)	-0.19	-0.21	-0.16	0.01	0.02	0.00	0.00	0.01	0.01	0.00	0.01	-0.05
Above Normal (16%)	-0.10	-0.09	-0.13	-0.06	0.02	0.01	0.02	0.03	0.02	0.00	0.00	-0.16
Below Normal (13%)	-0.19	-0.20	-0.19	-0.11	-0.08	-0.02	0.03	0.05	0.03	0.00	0.00	0.03
Dry (24%)	-0.17	-0.15	-0.18	-0.05	0.01	0.04	0.05	0.06	0.02	0.05	0.07	0.00
Critical (15%)	-0.09	-0.07	-0.09	-0.05	0.02	0.03	0.03	0.04	-0.05	-0.01	0.02	-0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

B.27. Contra Costa Water District Victoria Canal Intake Bromide Concentration

Table 6E.B.27.1. Contra Costa Victoria Canal Intake, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.36	0.39	0.46	0.50	0.40	0.21	0.19	0.16	0.13	0.16	0.25	0.30
20%	0.33	0.33	0.39	0.44	0.33	0.19	0.17	0.15	0.12	0.11	0.22	0.28
30%	0.31	0.30	0.35	0.38	0.27	0.18	0.16	0.14	0.11	0.10	0.20	0.27
40%	0.30	0.29	0.31	0.33	0.20	0.16	0.15	0.14	0.11	0.09	0.16	0.25
50%	0.28	0.25	0.20	0.30	0.18	0.15	0.13	0.12	0.11	0.08	0.14	0.24
60%	0.12	0.11	0.13	0.21	0.17	0.14	0.10	0.11	0.11	0.08	0.09	0.23
70%	0.11	0.11	0.10	0.17	0.16	0.12	0.09	0.10	0.10	0.08	0.08	0.22
80%	0.11	0.10	0.09	0.15	0.13	0.10	0.07	0.09	0.10	0.07	0.07	0.19
90%	0.10	0.10	0.08	0.13	0.11	0.09	0.05	0.04	0.09	0.07	0.07	0.18
Long Term												
Full Simulation Period[b]	0.23	0.22	0.24	0.30	0.23	0.16	0.13	0.12	0.11	0.10	0.15	0.23
Water Year Types[c]												
Wet (32%)	0.19	0.17	0.16	0.18	0.14	0.10	0.07	0.08	0.09	0.09	0.08	0.20
Above Normal (16%)	0.27	0.27	0.26	0.29	0.21	0.14	0.11	0.11	0.11	0.08	0.08	0.18
Below Normal (13%)	0.19	0.18	0.20	0.30	0.24	0.16	0.14	0.14	0.11	0.08	0.14	0.25
Dry (24%)	0.22	0.23	0.27	0.36	0.26	0.19	0.16	0.14	0.11	0.10	0.22	0.26
Critical (15%)	0.30	0.32	0.38	0.44	0.37	0.27	0.20	0.16	0.15	0.18	0.26	0.31

Alternative 1

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.38	0.40	0.42	0.47	0.39	0.28	0.17	0.15	0.14	0.15	0.23	0.31
20%	0.34	0.33	0.38	0.43	0.35	0.18	0.15	0.14	0.12	0.10	0.19	0.28
30%	0.32	0.32	0.36	0.40	0.27	0.15	0.13	0.13	0.11	0.10	0.18	0.26
40%	0.32	0.31	0.35	0.37	0.17	0.14	0.12	0.11	0.10	0.09	0.16	0.24
50%	0.30	0.29	0.33	0.35	0.16	0.13	0.12	0.10	0.10	0.08	0.14	0.23
60%	0.29	0.28	0.32	0.19	0.14	0.12	0.11	0.10	0.09	0.08	0.09	0.23
70%	0.28	0.26	0.29	0.14	0.13	0.11	0.10	0.09	0.09	0.07	0.08	0.22
80%	0.27	0.24	0.20	0.13	0.11	0.10	0.09	0.09	0.09	0.07	0.08	0.21
90%	0.23	0.21	0.10	0.11	0.10	0.09	0.07	0.06	0.08	0.07	0.07	0.18
Long Term												
Full Simulation Period[b]	0.30	0.29	0.30	0.30	0.21	0.16	0.12	0.11	0.10	0.10	0.14	0.23
Water Year Types[c]												
Wet (32%)	0.27	0.25	0.24	0.17	0.11	0.10	0.08	0.07	0.09	0.09	0.08	0.19
Above Normal (16%)	0.33	0.30	0.29	0.29	0.17	0.12	0.11	0.10	0.09	0.07	0.09	0.22
Below Normal (13%)	0.27	0.25	0.28	0.33	0.28	0.19	0.13	0.12	0.09	0.07	0.15	0.24
Dry (24%)	0.31	0.30	0.34	0.36	0.26	0.17	0.13	0.13	0.11	0.10	0.19	0.26
Critical (15%)	0.35	0.37	0.41	0.43	0.33	0.26	0.19	0.15	0.15	0.19	0.26	0.32

Alternative 1 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	0.01	-0.04	-0.03	-0.01	0.07	-0.03	-0.01	0.00	-0.01	-0.02	0.01
20%	0.01	0.00	-0.01	-0.01	0.02	-0.01	-0.03	-0.01	0.00	0.00	-0.03	0.00
30%	0.01	0.02	0.02	0.02	0.00	-0.02	-0.03	-0.01	0.00	0.00	-0.02	-0.01
40%	0.02	0.02	0.03	0.04	-0.03	-0.02	-0.02	-0.03	-0.01	0.00	0.01	-0.01
50%	0.03	0.04	0.13	0.06	-0.03	-0.02	-0.02	-0.02	-0.01	0.00	0.00	0.00
60%	0.18	0.17	0.19	-0.02	-0.03	-0.02	0.01	-0.01	-0.01	0.00	0.00	0.00
70%	0.17	0.15	0.19	-0.03	-0.03	-0.01	0.01	-0.01	-0.01	-0.01	0.00	0.00
80%	0.16	0.14	0.10	-0.02	-0.02	0.00	0.01	0.00	-0.01	0.00	0.00	0.02
90%	0.13	0.12	0.01	-0.02	-0.01	0.00	0.01	0.02	-0.01	0.00	0.00	0.01
Long Term												
Full Simulation Period[b]	0.07	0.06	0.06	0.00	-0.01	-0.01	-0.01	-0.01	-0.01	0.00	-0.01	0.00
Water Year Types[c]												
Wet (32%)	0.08	0.08	0.08	-0.01	-0.02	0.00	0.01	0.00	-0.01	0.00	0.00	-0.02
Above Normal (16%)	0.06	0.03	0.03	0.01	-0.04	-0.02	0.00	-0.02	-0.01	0.00	0.01	0.05
Below Normal (13%)	0.08	0.07	0.08	0.03	0.04	0.03	-0.01	-0.02	-0.02	-0.01	0.01	-0.01
Dry (24%)	0.09	0.07	0.07	0.00	0.00	-0.02	-0.03	-0.01	0.00	-0.01	-0.03	0.00
Critical (15%)	0.05	0.05	0.02	-0.01	-0.04	-0.02	-0.01	-0.01	0.01	0.00	0.00	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Second Basis of Comparison and Alternative 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.27.2. Contra Costa Victoria Canal Intake, Monthly Bromide Concentration

No Action Alternative

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.36	0.39	0.46	0.50	0.40	0.21	0.19	0.16	0.13	0.16	0.25	0.30
20%	0.33	0.33	0.39	0.44	0.33	0.19	0.17	0.15	0.12	0.11	0.22	0.28
30%	0.31	0.30	0.35	0.38	0.27	0.18	0.16	0.14	0.11	0.10	0.20	0.27
40%	0.30	0.29	0.31	0.33	0.20	0.16	0.15	0.14	0.11	0.09	0.16	0.25
50%	0.28	0.25	0.20	0.30	0.18	0.15	0.13	0.12	0.11	0.08	0.14	0.24
60%	0.12	0.11	0.13	0.21	0.17	0.14	0.10	0.11	0.11	0.08	0.09	0.23
70%	0.11	0.11	0.10	0.17	0.16	0.12	0.09	0.10	0.10	0.08	0.08	0.22
80%	0.11	0.10	0.09	0.15	0.13	0.10	0.07	0.09	0.10	0.07	0.07	0.19
90%	0.10	0.10	0.08	0.13	0.11	0.09	0.05	0.04	0.09	0.07	0.07	0.18
Long Term												
Full Simulation Period[b]	0.23	0.22	0.24	0.30	0.23	0.16	0.13	0.12	0.11	0.10	0.15	0.23
Water Year Types[c]												
Wet (32%)	0.19	0.17	0.16	0.18	0.14	0.10	0.07	0.08	0.09	0.09	0.08	0.20
Above Normal (16%)	0.27	0.27	0.26	0.29	0.21	0.14	0.11	0.11	0.11	0.08	0.08	0.18
Below Normal (13%)	0.19	0.18	0.20	0.30	0.24	0.16	0.14	0.14	0.11	0.08	0.14	0.25
Dry (24%)	0.22	0.23	0.27	0.36	0.26	0.19	0.16	0.14	0.11	0.10	0.22	0.26
Critical (15%)	0.30	0.32	0.38	0.44	0.37	0.27	0.20	0.16	0.15	0.18	0.26	0.31

Alternative 3

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.37	0.40	0.42	0.48	0.40	0.20	0.18	0.15	0.11	0.16	0.26	0.29
20%	0.34	0.34	0.38	0.44	0.36	0.18	0.16	0.13	0.11	0.11	0.21	0.28
30%	0.33	0.32	0.37	0.42	0.21	0.17	0.15	0.12	0.10	0.10	0.19	0.26
40%	0.32	0.31	0.35	0.39	0.18	0.16	0.14	0.10	0.10	0.09	0.17	0.25
50%	0.31	0.29	0.33	0.37	0.17	0.14	0.12	0.10	0.09	0.08	0.14	0.24
60%	0.29	0.28	0.32	0.20	0.15	0.13	0.11	0.09	0.09	0.08	0.09	0.23
70%	0.28	0.26	0.29	0.16	0.14	0.12	0.10	0.09	0.08	0.08	0.08	0.22
80%	0.27	0.24	0.23	0.14	0.12	0.10	0.08	0.08	0.08	0.07	0.07	0.20
90%	0.23	0.22	0.10	0.13	0.10	0.09	0.07	0.06	0.07	0.06	0.07	0.16
Long Term												
Full Simulation Period[b]	0.30	0.29	0.31	0.31	0.21	0.16	0.13	0.10	0.10	0.10	0.15	0.24
Water Year Types[c]												
Wet (32%)	0.27	0.25	0.25	0.19	0.12	0.10	0.08	0.07	0.08	0.09	0.08	0.18
Above Normal (16%)	0.33	0.32	0.30	0.32	0.19	0.13	0.11	0.09	0.09	0.07	0.09	0.22
Below Normal (13%)	0.27	0.25	0.29	0.35	0.24	0.16	0.14	0.11	0.09	0.08	0.16	0.26
Dry (24%)	0.31	0.30	0.35	0.38	0.27	0.19	0.15	0.12	0.09	0.10	0.20	0.26
Critical (15%)	0.35	0.37	0.40	0.39	0.33	0.25	0.19	0.16	0.14	0.19	0.26	0.32

Alternative 3 minus No Action Alternative

	Monthly Bromide Concentration (mg/L)											
Statistic	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.01	0.00	-0.04	-0.02	0.00	-0.01	-0.01	-0.01	-0.02	0.00	0.00	-0.01
20%	0.01	0.00	-0.01	0.00	0.03	-0.01	-0.01	-0.02	-0.02	0.00	-0.01	0.00
30%	0.02	0.01	0.02	0.04	-0.07	-0.01	-0.01	-0.03	-0.01	0.00	-0.01	0.00
40%	0.02	0.02	0.04	0.06	-0.02	-0.01	-0.01	-0.04	-0.01	0.00	0.01	0.01
50%	0.03	0.04	0.13	0.07	-0.02	-0.01	-0.01	-0.02	-0.02	0.00	0.00	0.00
60%	0.17	0.16	0.19	-0.01	-0.02	-0.01	0.01	-0.02	-0.02	0.00	0.01	0.00
70%	0.17	0.15	0.19	-0.01	-0.02	0.00	0.01	-0.02	-0.02	0.00	0.00	0.00
80%	0.16	0.14	0.13	-0.01	-0.02	-0.01	0.01	0.00	-0.02	0.00	0.00	0.01
90%	0.13	0.12	0.02	0.00	-0.01	0.00	0.02	0.02	-0.01	0.00	0.00	-0.01
Long Term												
Full Simulation Period[b]	0.07	0.07	0.07	0.01	-0.01	-0.01	0.00	-0.01	-0.02	0.00	0.00	0.00
Water Year Types[c]												
Wet (32%)	0.08	0.09	0.09	0.01	-0.02	0.00	0.01	-0.01	-0.01	0.00	0.00	-0.02
Above Normal (16%)	0.06	0.05	0.04	0.04	-0.02	-0.01	0.00	-0.02	-0.02	0.00	0.00	0.05
Below Normal (13%)	0.08	0.07	0.09	0.05	0.00	-0.01	-0.01	-0.03	-0.02	0.00	0.01	0.01
Dry (24%)	0.08	0.07	0.08	0.02	0.01	0.00	-0.01	-0.02	-0.02	0.00	-0.02	0.00
Critical (15%)	0.05	0.05	0.01	-0.05	-0.04	-0.02	0.00	0.00	-0.01	0.00	0.00	0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.27.3. Contra Costa Victoria Canal Intake, Monthly Bromide Concentration

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.36	0.39	0.46	0.50	0.40	0.21	0.19	0.16	0.13	0.16	0.25	0.30
20%	0.33	0.33	0.39	0.44	0.33	0.19	0.17	0.15	0.12	0.11	0.22	0.28
30%	0.31	0.30	0.35	0.38	0.27	0.18	0.16	0.14	0.11	0.10	0.20	0.27
40%	0.30	0.29	0.31	0.33	0.20	0.16	0.15	0.14	0.11	0.09	0.16	0.25
50%	0.28	0.25	0.20	0.30	0.18	0.15	0.13	0.12	0.11	0.08	0.14	0.24
60%	0.12	0.11	0.13	0.21	0.17	0.14	0.10	0.11	0.11	0.08	0.09	0.23
70%	0.11	0.11	0.10	0.17	0.16	0.12	0.09	0.10	0.10	0.08	0.08	0.22
80%	0.11	0.10	0.09	0.15	0.13	0.10	0.07	0.09	0.10	0.07	0.07	0.19
90%	0.10	0.10	0.08	0.13	0.11	0.09	0.05	0.04	0.09	0.07	0.07	0.18
Long Term												
Full Simulation Period[b]	0.23	0.22	0.24	0.30	0.23	0.16	0.13	0.12	0.11	0.10	0.15	0.23
Water Year Types[c]												
Wet (32%)	0.19	0.17	0.16	0.18	0.14	0.10	0.07	0.08	0.09	0.09	0.08	0.20
Above Normal (16%)	0.27	0.27	0.26	0.29	0.21	0.14	0.11	0.11	0.11	0.08	0.08	0.18
Below Normal (13%)	0.19	0.18	0.20	0.30	0.24	0.16	0.14	0.14	0.11	0.08	0.14	0.25
Dry (24%)	0.22	0.23	0.27	0.36	0.26	0.19	0.16	0.14	0.11	0.10	0.22	0.26
Critical (15%)	0.30	0.32	0.38	0.44	0.37	0.27	0.20	0.16	0.15	0.18	0.26	0.31

Alternative 5

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.37	0.40	0.46	0.50	0.40	0.21	0.20	0.18	0.16	0.16	0.27	0.30
20%	0.34	0.35	0.39	0.44	0.35	0.19	0.18	0.17	0.14	0.11	0.22	0.28
30%	0.32	0.30	0.35	0.38	0.30	0.17	0.17	0.15	0.13	0.10	0.20	0.27
40%	0.30	0.29	0.30	0.33	0.20	0.16	0.14	0.13	0.12	0.09	0.17	0.25
50%	0.28	0.25	0.21	0.30	0.19	0.15	0.13	0.12	0.11	0.09	0.14	0.24
60%	0.15	0.11	0.13	0.21	0.17	0.14	0.10	0.11	0.11	0.08	0.09	0.23
70%	0.11	0.11	0.10	0.17	0.16	0.12	0.09	0.10	0.11	0.08	0.08	0.22
80%	0.10	0.10	0.09	0.15	0.13	0.10	0.07	0.08	0.10	0.07	0.07	0.19
90%	0.10	0.10	0.08	0.13	0.11	0.09	0.05	0.04	0.09	0.07	0.07	0.17
Long Term												
Full Simulation Period[b]	0.23	0.22	0.24	0.30	0.23	0.16	0.13	0.12	0.12	0.10	0.15	0.24
Water Year Types[c]												
Wet (32%)	0.19	0.17	0.17	0.18	0.14	0.10	0.07	0.07	0.09	0.09	0.08	0.20
Above Normal (16%)	0.28	0.27	0.26	0.29	0.21	0.14	0.11	0.11	0.11	0.08	0.08	0.18
Below Normal (13%)	0.20	0.18	0.20	0.30	0.24	0.16	0.14	0.13	0.12	0.08	0.14	0.25
Dry (24%)	0.23	0.23	0.26	0.37	0.27	0.19	0.16	0.15	0.13	0.11	0.23	0.26
Critical (15%)	0.30	0.32	0.38	0.44	0.37	0.28	0.21	0.18	0.16	0.18	0.26	0.31

Alternative 5 minus No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.02	0.02	0.00	0.01	**0.00**
20%	0.01	0.01	0.00	**0.00**	0.02	0.00	0.01	0.02	0.02	0.00	0.01	0.00
30%	0.00	**0.00**	0.00	**0.00**	0.03	**0.00**	0.01	0.01	0.01	0.00	0.00	0.01
40%	0.00	0.00	**-0.02**	0.00	0.00	**0.00**	**0.00**	**-0.01**	0.01	0.00	0.01	0.01
50%	0.00	0.01	0.01	**0.00**	0.00	**0.00**	**0.00**	**0.00**	0.00	0.00	0.00	0.00
60%	0.03	**0.00**	0.00	0.00	0.00	**0.00**	**0.00**	**-0.01**	0.00	0.00	0.00	0.00
70%	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	0.00	**0.00**	0.00	0.00	**0.00**	0.00
80%	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**	0.00	0.00	0.00	0.00
90%	**0.00**	0.00	**0.00**	**0.00**	**0.00**	0.00	0.00	**0.00**	0.00	0.00	0.00	**0.00**
Long Term												
Full Simulation Period[b]	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
Water Year Types[c]												
Wet (32%)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	**0.00**	**0.00**
Above Normal (16%)	0.01	0.00	**0.00**	**0.00**	0.00	0.00	**0.00**	**-0.01**	0.00	0.00	0.00	**0.00**
Below Normal (13%)	0.01	0.00	0.00	**0.00**	**0.00**	**0.00**	**-0.01**	**-0.01**	0.01	0.00	**0.00**	0.00
Dry (24%)	0.00	0.00	**0.00**	0.00	0.01	0.00	0.01	0.02	0.02	0.01	0.01	0.01
Critical (15%)	0.00	0.00	0.00	**0.00**	0.00	0.00	0.02	0.02	0.01	**-0.01**	0.00	0.00

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.27.4. Contra Costa Victoria Canal Intake, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.38	0.40	0.42	0.47	0.39	0.28	0.17	0.15	0.14	0.15	0.23	0.31
20%	0.34	0.33	0.38	0.43	0.35	0.18	0.15	0.14	0.12	0.10	0.19	0.28
30%	0.32	0.32	0.36	0.40	0.27	0.15	0.13	0.13	0.11	0.10	0.18	0.26
40%	0.32	0.31	0.35	0.37	0.17	0.14	0.12	0.11	0.10	0.09	0.16	0.24
50%	0.30	0.29	0.33	0.35	0.16	0.13	0.12	0.10	0.10	0.08	0.14	0.23
60%	0.29	0.28	0.32	0.19	0.14	0.12	0.11	0.10	0.09	0.08	0.09	0.23
70%	0.28	0.26	0.29	0.14	0.13	0.11	0.10	0.09	0.09	0.07	0.08	0.22
80%	0.27	0.24	0.20	0.13	0.11	0.10	0.09	0.09	0.09	0.07	0.08	0.21
90%	0.23	0.21	0.10	0.11	0.10	0.09	0.07	0.06	0.08	0.07	0.07	0.18
Long Term												
Full Simulation Period[b]	0.30	0.29	0.30	0.30	0.21	0.16	0.12	0.11	0.10	0.10	0.14	0.23
Water Year Types[c]												
Wet (32%)	0.27	0.25	0.24	0.17	0.11	0.10	0.08	0.07	0.09	0.09	0.08	0.19
Above Normal (16%)	0.33	0.30	0.29	0.29	0.17	0.12	0.11	0.10	0.09	0.07	0.09	0.22
Below Normal (13%)	0.27	0.25	0.28	0.33	0.28	0.19	0.13	0.12	0.09	0.07	0.15	0.24
Dry (24%)	0.31	0.30	0.34	0.36	0.26	0.17	0.13	0.13	0.11	0.10	0.19	0.26
Critical (15%)	0.35	0.37	0.41	0.43	0.33	0.26	0.19	0.15	0.15	0.19	0.26	0.32

No Action Alternative

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.36	0.39	0.46	0.50	0.40	0.21	0.19	0.16	0.13	0.16	0.25	0.30
20%	0.33	0.33	0.39	0.44	0.33	0.19	0.17	0.15	0.12	0.11	0.22	0.28
30%	0.31	0.30	0.35	0.38	0.27	0.18	0.16	0.14	0.11	0.10	0.20	0.27
40%	0.30	0.29	0.31	0.33	0.20	0.16	0.15	0.14	0.11	0.09	0.16	0.25
50%	0.28	0.25	0.20	0.30	0.18	0.15	0.13	0.12	0.11	0.08	0.14	0.24
60%	0.12	0.11	0.13	0.21	0.17	0.14	0.10	0.11	0.11	0.08	0.09	0.23
70%	0.11	0.11	0.10	0.17	0.16	0.12	0.09	0.10	0.10	0.08	0.08	0.22
80%	0.11	0.10	0.09	0.15	0.13	0.10	0.07	0.09	0.10	0.07	0.07	0.19
90%	0.10	0.10	0.08	0.13	0.11	0.09	0.05	0.04	0.09	0.07	0.07	0.18
Long Term												
Full Simulation Period[b]	0.23	0.22	0.24	0.30	0.23	0.16	0.13	0.12	0.11	0.10	0.15	0.23
Water Year Types[c]												
Wet (32%)	0.19	0.17	0.16	0.18	0.14	0.10	0.07	0.08	0.09	0.09	0.08	0.20
Above Normal (16%)	0.27	0.27	0.26	0.29	0.21	0.14	0.11	0.11	0.11	0.08	0.08	0.18
Below Normal (13%)	0.19	0.18	0.20	0.30	0.24	0.16	0.14	0.14	0.11	0.08	0.14	0.25
Dry (24%)	0.22	0.23	0.27	0.36	0.26	0.19	0.16	0.14	0.11	0.10	0.22	0.26
Critical (15%)	0.30	0.32	0.38	0.44	0.37	0.27	0.20	0.16	0.15	0.18	0.26	0.31

No Action Alternative minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-0.01	-0.01	0.04	0.03	0.01	-0.07	0.03	0.01	0.00	0.01	0.02	-0.01
20%	-0.01	0.00	0.01	0.01	-0.02	0.01	0.03	0.01	0.00	0.00	0.03	0.00
30%	-0.01	-0.02	-0.02	-0.02	0.00	0.02	0.03	0.01	0.00	0.00	0.02	0.01
40%	-0.02	-0.02	-0.03	-0.04	0.03	0.02	0.02	0.03	0.01	0.00	-0.01	0.01
50%	-0.03	-0.04	-0.13	-0.06	0.03	0.02	0.02	0.02	0.01	0.00	0.00	0.00
60%	-0.18	-0.17	-0.19	0.02	0.03	0.02	-0.01	0.01	0.01	0.00	0.00	0.00
70%	-0.17	-0.15	-0.19	0.03	0.03	0.01	-0.01	0.01	0.01	0.01	0.00	0.00
80%	-0.16	-0.14	-0.10	0.02	0.02	0.00	-0.01	0.00	0.01	0.00	0.00	-0.02
90%	-0.13	-0.12	-0.01	0.02	0.01	0.00	-0.01	-0.02	0.01	0.00	0.00	-0.01
Long Term												
Full Simulation Period[b]	-0.07	-0.06	-0.06	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00
Water Year Types[c]												
Wet (32%)	-0.08	-0.08	-0.08	0.01	0.02	0.00	-0.01	0.00	0.01	0.00	0.00	0.02
Above Normal (16%)	-0.06	-0.03	-0.03	-0.01	0.04	0.02	0.00	0.02	0.01	0.00	-0.01	-0.05
Below Normal (13%)	-0.08	-0.07	-0.08	-0.03	-0.04	-0.03	0.01	0.02	0.02	0.01	-0.01	0.01
Dry (24%)	-0.09	-0.07	-0.07	0.00	0.00	0.02	0.03	0.01	0.00	0.01	0.03	0.00
Critical (15%)	-0.05	-0.05	-0.02	0.01	0.04	0.02	0.01	0.01	-0.01	0.00	0.00	-0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.27.5. Contra Costa Victoria Canal Intake, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.38	0.40	0.42	0.47	0.39	0.28	0.17	0.15	0.14	0.15	0.23	0.31
20%	0.34	0.33	0.38	0.43	0.35	0.18	0.15	0.14	0.12	0.10	0.19	0.28
30%	0.32	0.32	0.36	0.40	0.27	0.15	0.13	0.13	0.11	0.10	0.18	0.26
40%	0.32	0.31	0.35	0.37	0.17	0.14	0.12	0.11	0.10	0.09	0.16	0.24
50%	0.30	0.29	0.33	0.35	0.16	0.13	0.12	0.10	0.10	0.08	0.14	0.23
60%	0.29	0.28	0.32	0.19	0.14	0.12	0.11	0.10	0.09	0.08	0.09	0.23
70%	0.28	0.26	0.29	0.14	0.13	0.11	0.10	0.09	0.09	0.07	0.08	0.22
80%	0.27	0.24	0.20	0.13	0.11	0.10	0.09	0.09	0.09	0.07	0.08	0.21
90%	0.23	0.21	0.10	0.11	0.10	0.09	0.07	0.06	0.08	0.07	0.07	0.18
Long Term												
Full Simulation Period[b]	0.30	0.29	0.30	0.30	0.21	0.16	0.12	0.11	0.10	0.10	0.14	0.23
Water Year Types[c]												
Wet (32%)	0.27	0.25	0.24	0.17	0.11	0.10	0.08	0.07	0.09	0.09	0.08	0.19
Above Normal (16%)	0.33	0.30	0.29	0.29	0.17	0.12	0.11	0.10	0.09	0.07	0.09	0.22
Below Normal (13%)	0.27	0.25	0.28	0.33	0.28	0.19	0.13	0.12	0.09	0.07	0.15	0.24
Dry (24%)	0.31	0.30	0.34	0.36	0.26	0.17	0.13	0.13	0.11	0.10	0.19	0.26
Critical (15%)	0.35	0.37	0.41	0.43	0.33	0.26	0.19	0.15	0.15	0.19	0.26	0.32

Alternative 3

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.37	0.40	0.42	0.48	0.40	0.20	0.18	0.15	0.11	0.16	0.26	0.29
20%	0.34	0.34	0.38	0.44	0.36	0.18	0.16	0.13	0.11	0.11	0.21	0.28
30%	0.33	0.32	0.37	0.42	0.21	0.17	0.15	0.12	0.10	0.10	0.19	0.26
40%	0.32	0.31	0.35	0.39	0.18	0.16	0.14	0.10	0.10	0.09	0.17	0.25
50%	0.31	0.29	0.33	0.37	0.17	0.14	0.12	0.10	0.09	0.08	0.14	0.24
60%	0.29	0.28	0.32	0.20	0.15	0.13	0.11	0.09	0.09	0.08	0.09	0.23
70%	0.28	0.26	0.29	0.16	0.14	0.12	0.10	0.09	0.08	0.08	0.08	0.22
80%	0.27	0.24	0.23	0.14	0.12	0.10	0.08	0.08	0.08	0.07	0.07	0.20
90%	0.23	0.22	0.10	0.13	0.10	0.09	0.07	0.06	0.07	0.06	0.07	0.16
Long Term												
Full Simulation Period[b]	0.30	0.29	0.31	0.31	0.21	0.16	0.13	0.10	0.10	0.10	0.15	0.24
Water Year Types[c]												
Wet (32%)	0.27	0.25	0.25	0.19	0.12	0.10	0.08	0.07	0.08	0.09	0.08	0.18
Above Normal (16%)	0.33	0.32	0.30	0.32	0.19	0.13	0.11	0.09	0.09	0.07	0.09	0.22
Below Normal (13%)	0.27	0.25	0.29	0.35	0.24	0.16	0.14	0.11	0.09	0.08	0.16	0.26
Dry (24%)	0.31	0.30	0.35	0.38	0.27	0.19	0.15	0.12	0.09	0.10	0.20	0.26
Critical (15%)	0.35	0.37	0.40	0.39	0.33	0.25	0.19	0.16	0.14	0.19	0.26	0.32

Alternative 3 minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.00	0.00	-0.01	0.00	0.01	-0.08	0.01	0.00	-0.03	0.02	0.02	-0.02
20%	0.00	0.01	0.00	0.01	0.01	0.00	0.02	-0.01	-0.01	0.01	0.02	0.00
30%	0.00	0.00	0.00	0.02	-0.06	0.02	0.02	-0.01	-0.01	0.00	0.01	0.01
40%	0.00	0.00	0.00	0.02	0.01	0.02	0.01	-0.01	-0.01	0.00	0.01	0.01
50%	0.00	0.00	0.00	0.02	0.01	0.01	0.00	-0.01	-0.01	0.00	0.00	0.00
60%	0.00	0.00	-0.01	0.01	0.01	0.01	0.00	-0.01	-0.01	0.00	0.00	0.00
70%	0.00	0.00	0.00	0.01	0.01	0.01	0.00	-0.01	-0.01	0.00	0.00	0.00
80%	0.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	0.00
90%	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	-0.01	0.00	0.00	-0.02
Long Term												
Full Simulation Period[b]	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.00	-0.01	0.00	0.01	0.00
Water Year Types[c]												
Wet (32%)	0.00	0.01	0.01	0.02	0.01	0.00	0.00	0.00	-0.01	0.00	0.00	0.00
Above Normal (16%)	0.00	0.02	0.01	0.03	0.02	0.01	0.00	-0.01	-0.01	0.00	0.00	0.00
Below Normal (13%)	-0.01	0.00	0.01	0.02	-0.05	-0.04	0.01	0.00	0.00	0.01	0.00	0.02
Dry (24%)	0.00	0.00	0.01	0.02	0.01	0.02	0.02	-0.01	-0.01	0.01	0.02	0.00
Critical (15%)	0.00	0.00	-0.01	-0.04	0.00	0.00	0.00	0.01	-0.02	0.00	0.00	0.00

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.

Table 6E.B.27.6. Contra Costa Victoria Canal Intake, Monthly Bromide Concentration

Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.38	0.40	0.42	0.47	0.39	0.28	0.17	0.15	0.14	0.15	0.23	0.31
20%	0.34	0.33	0.38	0.43	0.35	0.18	0.15	0.14	0.12	0.10	0.19	0.28
30%	0.32	0.32	0.36	0.40	0.27	0.15	0.13	0.13	0.11	0.10	0.18	0.26
40%	0.32	0.31	0.35	0.37	0.17	0.14	0.12	0.11	0.10	0.09	0.16	0.24
50%	0.30	0.29	0.33	0.35	0.16	0.13	0.12	0.10	0.10	0.08	0.14	0.23
60%	0.29	0.28	0.32	0.19	0.14	0.12	0.11	0.10	0.09	0.08	0.09	0.23
70%	0.28	0.26	0.29	0.14	0.13	0.11	0.10	0.09	0.09	0.07	0.08	0.22
80%	0.27	0.24	0.20	0.13	0.11	0.10	0.09	0.09	0.09	0.07	0.08	0.21
90%	0.23	0.21	0.10	0.11	0.10	0.09	0.07	0.06	0.08	0.07	0.07	0.18
Long Term												
Full Simulation Period[b]	0.30	0.29	0.30	0.30	0.21	0.16	0.12	0.11	0.10	0.10	0.14	0.23
Water Year Types[c]												
Wet (32%)	0.27	0.25	0.24	0.17	0.11	0.10	0.08	0.07	0.09	0.09	0.08	0.19
Above Normal (16%)	0.33	0.30	0.29	0.29	0.17	0.12	0.11	0.10	0.09	0.07	0.09	0.22
Below Normal (13%)	0.27	0.25	0.28	0.33	0.28	0.19	0.13	0.12	0.09	0.07	0.15	0.24
Dry (24%)	0.31	0.30	0.34	0.36	0.26	0.17	0.13	0.13	0.11	0.10	0.19	0.26
Critical (15%)	0.35	0.37	0.41	0.43	0.33	0.26	0.19	0.15	0.15	0.19	0.26	0.32

Alternative 5

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	0.37	0.40	0.46	0.50	0.40	0.21	0.20	0.18	0.16	0.16	0.27	0.30
20%	0.34	0.35	0.39	0.44	0.35	0.19	0.18	0.17	0.14	0.11	0.22	0.28
30%	0.32	0.30	0.35	0.38	0.30	0.17	0.17	0.15	0.13	0.10	0.20	0.27
40%	0.30	0.29	0.30	0.33	0.20	0.16	0.14	0.13	0.12	0.09	0.17	0.25
50%	0.28	0.25	0.21	0.30	0.19	0.15	0.13	0.12	0.11	0.09	0.14	0.24
60%	0.15	0.11	0.13	0.21	0.17	0.14	0.10	0.11	0.11	0.08	0.09	0.23
70%	0.11	0.11	0.10	0.17	0.16	0.12	0.09	0.10	0.11	0.08	0.08	0.22
80%	0.10	0.10	0.09	0.15	0.13	0.10	0.07	0.08	0.10	0.07	0.07	0.19
90%	0.10	0.10	0.08	0.13	0.11	0.09	0.05	0.04	0.09	0.07	0.07	0.17
Long Term												
Full Simulation Period[b]	0.23	0.22	0.24	0.30	0.23	0.16	0.13	0.12	0.12	0.10	0.15	0.24
Water Year Types[c]												
Wet (32%)	0.19	0.17	0.17	0.18	0.14	0.10	0.07	0.07	0.09	0.09	0.08	0.20
Above Normal (16%)	0.28	0.27	0.26	0.29	0.21	0.14	0.11	0.11	0.11	0.08	0.08	0.18
Below Normal (13%)	0.20	0.18	0.20	0.30	0.24	0.16	0.14	0.13	0.12	0.08	0.14	0.25
Dry (24%)	0.23	0.23	0.26	0.37	0.27	0.19	0.16	0.15	0.13	0.11	0.23	0.26
Critical (15%)	0.30	0.32	0.38	0.44	0.37	0.28	0.21	0.18	0.16	0.18	0.26	0.31

Alternative 5 minus Second Basis of Comparison

Statistic	Monthly Bromide Concentration (mg/L)											
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Probability of Exceedance[a]												
10%	-0.01	0.00	0.04	0.03	0.01	-0.07	0.03	0.03	0.02	0.01	0.03	-0.01
20%	0.00	0.02	0.01	0.01	0.00	0.01	0.04	0.03	0.02	0.01	0.03	0.00
30%	-0.01	-0.02	-0.02	-0.02	0.03	0.02	0.04	0.02	0.02	0.00	0.03	0.01
40%	-0.01	-0.02	-0.05	-0.04	0.03	0.02	0.02	0.02	0.01	0.00	0.00	0.01
50%	-0.02	-0.04	-0.12	-0.06	0.03	0.02	0.01	0.01	0.01	0.00	0.00	0.00
60%	-0.14	-0.17	-0.19	0.02	0.03	0.02	-0.01	0.01	0.02	0.00	0.00	0.01
70%	-0.17	-0.15	-0.19	0.03	0.03	0.01	-0.01	0.01	0.02	0.01	0.00	0.00
80%	-0.16	-0.14	-0.10	0.02	0.02	0.00	-0.01	0.00	0.01	0.00	0.00	-0.01
90%	-0.13	-0.12	-0.01	0.02	0.01	0.00	-0.01	-0.02	0.01	0.00	0.00	-0.01
Long Term												
Full Simulation Period[b]	-0.07	-0.06	-0.06	0.00	0.02	0.01	0.01	0.01	0.01	0.00	0.01	0.00
Water Year Types[c]												
Wet (32%)	-0.07	-0.08	-0.07	0.01	0.02	0.00	-0.01	0.00	0.01	0.00	0.00	0.02
Above Normal (16%)	-0.05	-0.03	-0.03	-0.01	0.04	0.02	0.00	0.01	0.01	0.00	0.00	-0.05
Below Normal (13%)	-0.07	-0.07	-0.08	-0.03	-0.04	-0.03	0.01	0.02	0.03	0.01	-0.01	0.02
Dry (24%)	-0.08	-0.07	-0.08	0.00	0.01	0.02	0.03	0.02	0.02	0.01	0.04	0.01
Critical (15%)	-0.05	-0.05	-0.02	0.00	0.04	0.02	0.02	0.03	0.00	-0.01	0.00	-0.01

a Exceedance probability is defined as the probability a given value will be exceeded in any one year.

b Based on the 82-year simulation period.

c As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999); projected to Year 2030.

Notes: 1) All alternatives are simulated with projected hydrology and sea level at Year 2030 conditions. 2) Model results for Alternatives 1, 4, and Second Basis of Comparison are the same, therefore Alternative 1 and 4 results are not presented. Qualitative differences, if applicable, are discussed in the text. 3) Model results for Alternative 2 and No Action Alternative are the same, therefore Alternative 2 results are not presented. Qualitative differences, if applicable, are discussed in the text.