



— BUREAU OF —  
RECLAMATION

# **Appendix F, Modeling, Part 2**

**Attachment 2-5, DSM2 - Salinity**

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The following results of the DSM2 QUAL model with 2022 Median climate conditions and 15 cm sea level rise are included for salinity results at key project locations for the following alternatives:

- No Action Alternative 090723 (NAA)
- EXP1 090623 (EXP1)
- EXP3 090623 (EXP3)
- Alt2woTUCPwoVA 090723 (Alt2woTUCPwoVA)
- Alt2woTUCPDeltaVA 090723 (Alt2woTUCPDeltaVA)
- Alt2woTUCPAIIVA 090723 (Alt2woTUCPAIIVA)
- Alt2wTUCPwoVA 090723 (Alt2wTUCPwoVA)

| Section  | Output Parameters                                        | Table Numbers             | Figure Numbers          |
|----------|----------------------------------------------------------|---------------------------|-------------------------|
| Salinity | Sacramento River downstream of Steamboat Slough Salinity | F.2.5-1-1a to F.2.5-1-10c | F.2.5-1-1 to F.2.5-1-18 |
| Salinity | Cache Slough at Ryer Island Salinity                     | F.2.5-2-1a to F.2.5-2-10c | F.2.5-2-1 to F.2.5-2-18 |
| Salinity | Sacramento River downstream of Georgiana Slough Salinity | F.2.5-3-1a to F.2.5-3-10c | F.2.5-3-1 to F.2.5-3-18 |
| Salinity | Sacramento River at Emmaton Salinity                     | F.2.5-4-1a to F.2.5-4-10c | F.2.5-4-1 to F.2.5-4-18 |
| Salinity | Sacramento River at Rio Vista Salinity                   | F.2.5-5-1a to F.2.5-5-10c | F.2.5-5-1 to F.2.5-5-18 |
| Salinity | San Joaquin River at Vernalis Salinity (40-30-30)        | F.2.5-6-1a to F.2.5-6-10c | F.2.5-6-1 to F.2.5-6-18 |
| Salinity | San Joaquin River at Vernalis Salinity (60-20-20)        | F.2.5-7-1a to F.2.5-7-10c | F.2.5-7-1 to F.2.5-7-18 |
| Salinity | San Joaquin River at Jersey Point Salinity               | F.2.5-8-1a to F.2.5-8-10c | F.2.5-8-1 to F.2.5-8-18 |

|          |                                                  |                             |                           |
|----------|--------------------------------------------------|-----------------------------|---------------------------|
| Salinity | Old River at Rock Slough Salinity                | F.2.5-9-1a to F.2.5-9-10c   | F.2.5-9-1 to F.2.5-9-18   |
| Salinity | San Joaquin River at Antioch Salinity            | F.2.5-10-1a to F.2.5-10-10c | F.2.5-10-1 to F.2.5-10-18 |
| Salinity | Sacramento River at Mallard Slough Salinity      | F.2.5-11-1a to F.2.5-11-10c | F.2.5-11-1 to F.2.5-11-18 |
| Salinity | Sacramento River at Collinsville Salinity        | F.2.5-12-1a to F.2.5-12-10c | F.2.5-12-1 to F.2.5-12-18 |
| Salinity | Chippis Island North Channel Salinity            | F.2.5-13-1a to F.2.5-13-10c | F.2.5-13-1 to F.2.5-13-18 |
| Salinity | Chippis Island South Channel Salinity            | F.2.5-14-1a to F.2.5-14-10c | F.2.5-14-1 to F.2.5-14-18 |
| Salinity | Sacramento River at Port Chicago Salinity        | F.2.5-15-1a to F.2.5-15-10c | F.2.5-15-1 to F.2.5-15-18 |
| Salinity | Jones Pumping Plant South Delta Exports Salinity | F.2.5-16-1a to F.2.5-16-10c | F.2.5-16-1 to F.2.5-16-18 |
| Salinity | Banks Pumping Plant South Delta Exports Salinity | F.2.5-17-1a to F.2.5-17-10c | F.2.5-17-1 to F.2.5-17-18 |
| Salinity | Old River at Highway 4                           | F.2.5-18-1a to F.2.5-18-10c | F.2.5-18-1 to F.2.5-18-18 |
| Salinity | Victoria Canal                                   | F.2.5-19-1a to F.2.5-19-10c | F.2.5-19-1 to F.2.5-19-18 |

## Report formats

- Monthly tables include a comparison of an alternative and the baseline (NAA, and EXP1) (exceedance values, long-term average, and average by water year type) by subtracting the values in the NAA or EXP1 table (the table presented at the top of the page) from the values in the alternative table (the second table from the top of the page).
- Monthly pattern charts (long-term average and average by water year type) including all alternatives.
- Monthly exceedance charts (all months) including all alternatives.

**Table F.2.5-1-1a. Sacramento River downstream of Steamboat Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-1b. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-1c. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-1-2a. Sacramento River downstream of Steamboat Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-2b. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 175 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-2c. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-1-3a. Sacramento River downstream of Steamboat Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-3b. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPAILVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 175 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-3c. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPAILVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-1-4a. Sacramento River downstream of Steamboat Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-4b. Sacramento River downstream of Steamboat Slough Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-4c. Sacramento River downstream of Steamboat Slough Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-1-5a. Sacramento River downstream of Steamboat Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-5b. Sacramento River downstream of Steamboat Slough Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 176 | 176 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 175 |
| 40% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 176 | 175 |
| 50% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 176 | 176 | 175 | 176 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 175 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 176 | 175 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 176 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 176 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-1-5c. Sacramento River downstream of Steamboat Slough Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-1-6a. Sacramento River downstream of Steamboat Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 177 | 178 | 177 | 178 | 178 | 177 | 176 | 177 | 178 | 178 | 177 | 176 |
| 20% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 177 | 177 | 177 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| 50% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 175 | 176 | 177 | 176 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 177 | 176 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Dry Water Years (24%)                       | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| Critical Water Years (16%)                  | 177 | 178 | 177 | 177 | 179 | 178 | 176 | 176 | 178 | 178 | 177 | 176 |

**Table F.2.5-1-6b. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-6c. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | -1  | -3  | -2  | -2  | -1  |
| 20% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -2  | -1  | 0   |
| 30% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -1  | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Critical Water Years (16%)                  | -1  | -1  | 0   | 0   | 0   | 1   | 0   | -1  | -2  | -2  | -2  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-1-7a. Sacramento River downstream of Steamboat Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 177 | 178 | 177 | 178 | 178 | 177 | 176 | 177 | 178 | 178 | 177 | 176 |
| 20% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 177 | 177 | 177 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| 50% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 175 | 176 | 177 | 176 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 177 | 176 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Dry Water Years (24%)                       | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| Critical Water Years (16%)                  | 177 | 178 | 177 | 177 | 179 | 178 | 176 | 176 | 178 | 178 | 177 | 176 |

**Table F.2.5-1-7b. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 175 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-7c. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | -1  | -3  | -2  | -2  | -1  |
| 20% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -2  | -1  | 0   |
| 30% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 40% Exceedance                              | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -1  | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Critical Water Years (16%)                  | -1  | -1  | 1   | 0   | 0   | 1   | 0   | -1  | -2  | -2  | -2  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-1-8a. Sacramento River downstream of Steamboat Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 177 | 178 | 177 | 178 | 178 | 177 | 176 | 177 | 178 | 178 | 177 | 176 |
| 20% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 177 | 177 | 177 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| 50% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 175 | 176 | 177 | 176 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 177 | 176 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Dry Water Years (24%)                       | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| Critical Water Years (16%)                  | 177 | 178 | 177 | 177 | 179 | 178 | 176 | 176 | 178 | 178 | 177 | 176 |

**Table F.2.5-1-8b. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPAILVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 175 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-8c. Sacramento River downstream of Steamboat Slough Salinity, Alt2woTUCPAILVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | -1  | -3  | -2  | -2  | -1  |
| 20% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -2  | -1  | 0   |
| 30% Exceedance                              | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 40% Exceedance                              | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -1  | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Critical Water Years (16%)                  | -1  | -1  | 1   | 0   | 0   | 1   | 0   | -1  | -2  | -2  | -2  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-1-9a. Sacramento River downstream of Steamboat Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 177 | 178 | 177 | 178 | 178 | 177 | 176 | 177 | 178 | 178 | 177 | 176 |
| 20% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 177 | 177 | 177 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| 50% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 175 | 176 | 177 | 176 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 177 | 176 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Dry Water Years (24%)                       | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| Critical Water Years (16%)                  | 177 | 178 | 177 | 177 | 179 | 178 | 176 | 176 | 178 | 178 | 177 | 176 |

**Table F.2.5-1-9b. Sacramento River downstream of Steamboat Slough Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-9c. Sacramento River downstream of Steamboat Slough Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | -1  | -2  | -2  | -2  | -1  |
| 20% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -2  | -1  | 0   |
| 30% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -1  | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Critical Water Years (16%)                  | -1  | -2  | 0   | 0   | 0   | 1   | 0   | -1  | -2  | -2  | -2  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-1-10a. Sacramento River downstream of Steamboat Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 177 | 178 | 177 | 178 | 178 | 177 | 176 | 177 | 178 | 178 | 177 | 176 |
| 20% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 177 | 177 | 177 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| 50% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 175 | 176 | 177 | 176 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 176 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 177 | 176 | 177 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 176 | 176 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 177 | 176 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 176 | 176 | 176 | 177 | 177 | 176 |
| Dry Water Years (24%)                       | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 177 | 177 | 176 |
| Critical Water Years (16%)                  | 177 | 178 | 177 | 177 | 179 | 178 | 176 | 176 | 178 | 178 | 177 | 176 |

**Table F.2.5-1-10b. Sacramento River downstream of Steamboat Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 178 | 176 | 176 | 175 | 175 | 175 | 175 |
| 30% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 175 | 175 | 175 | 175 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 50% Exceedance                              | 175 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| 60% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 175 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 175 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 175 | 175 | 175 | 175 |
| Critical Water Years (16%)                  | 176 | 176 | 178 | 177 | 179 | 178 | 177 | 176 | 176 | 175 | 176 | 175 |

**Table F.2.5-1-10c. Sacramento River downstream of Steamboat Slough Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | -1  | -2  | -2  | -2  | -1  |
| 20% Exceedance                              | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -2  | -1  | 0   |
| 30% Exceedance                              | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -1  | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -2  | -1  | 0   |
| Critical Water Years (16%)                  | -1  | -1  | 0   | 0   | 0   | 1   | 0   | -1  | -2  | -2  | -2  | -1  |

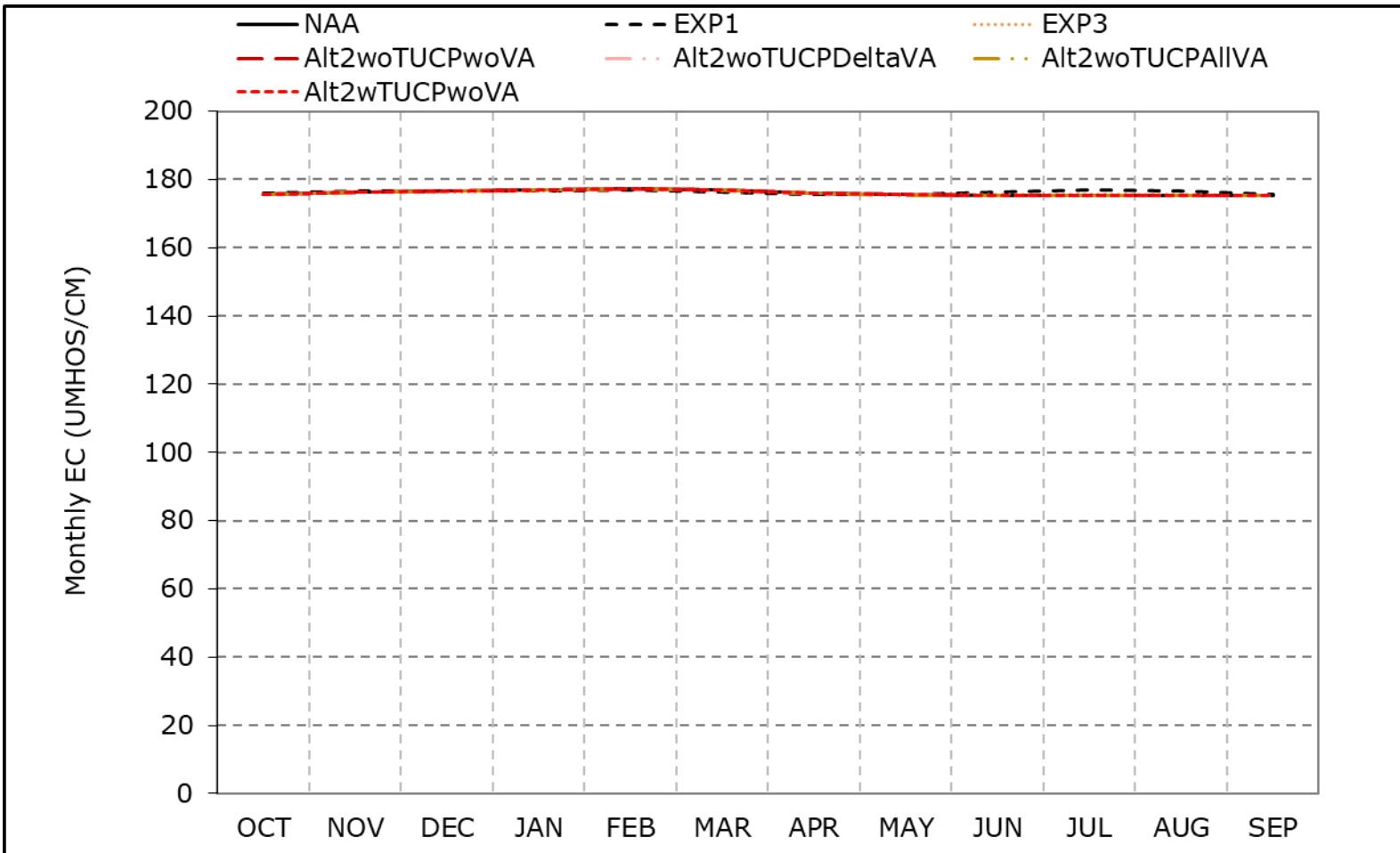
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-1-1. Sacramento River downstream of Steamboat Slough Salinity, Long-Term Average EC**

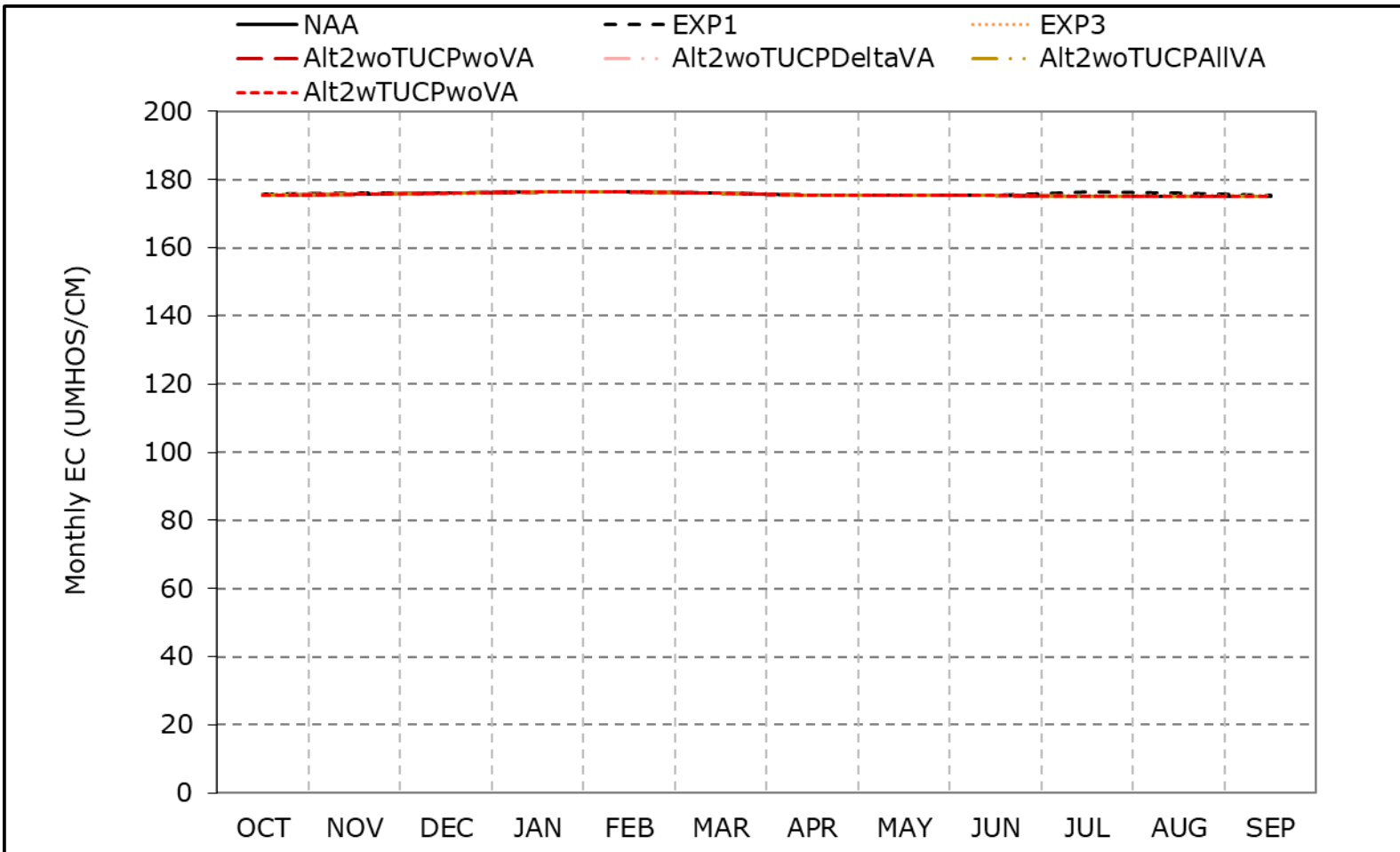


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

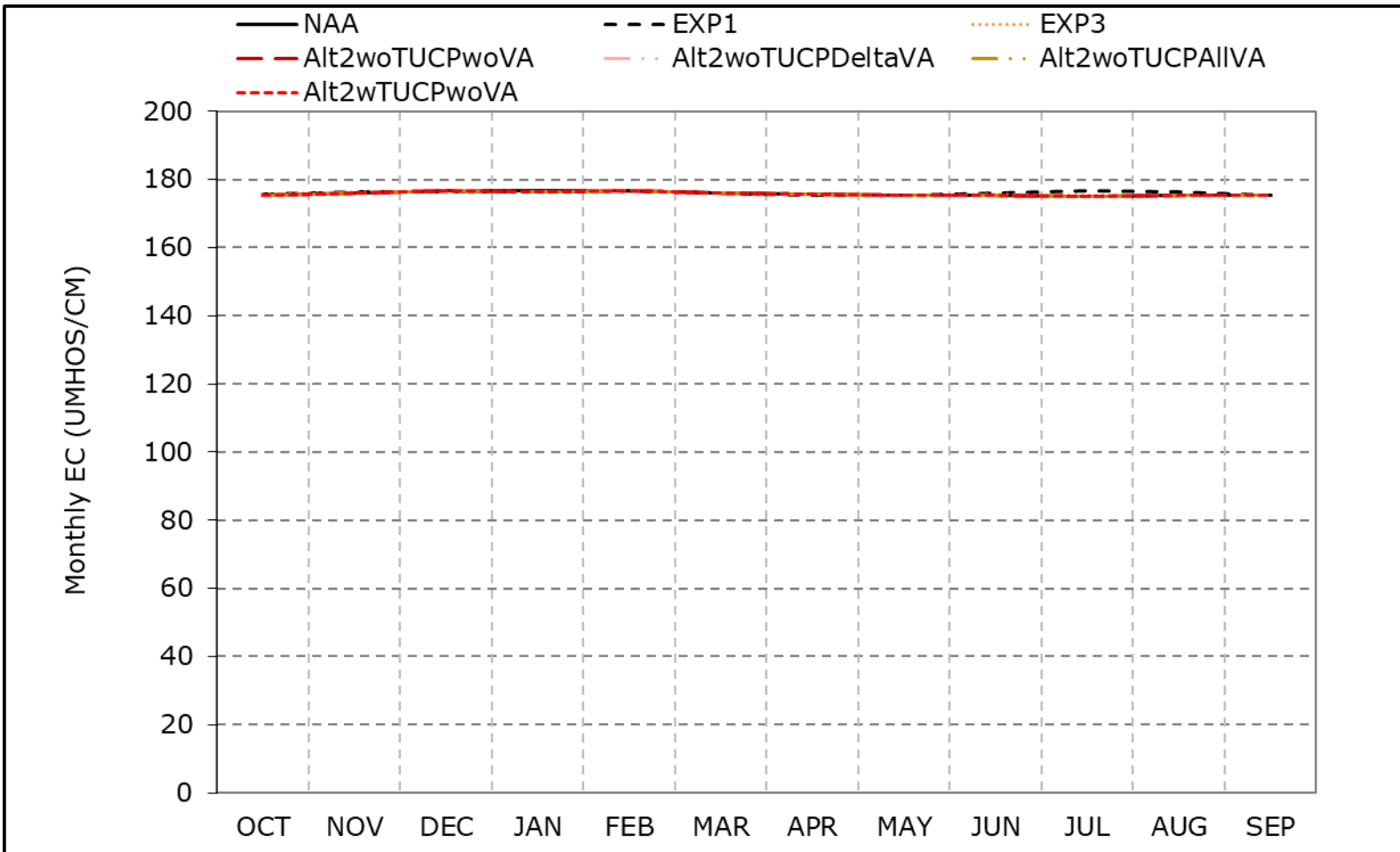
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-2. Sacramento River downstream of Steamboat Slough Salinity, Wet Year Average EC**



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
\*These results are displayed with calendar year - year type sorting.  
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-3. Sacramento River downstream of Steamboat Slough Salinity, Above Normal Year Average EC**

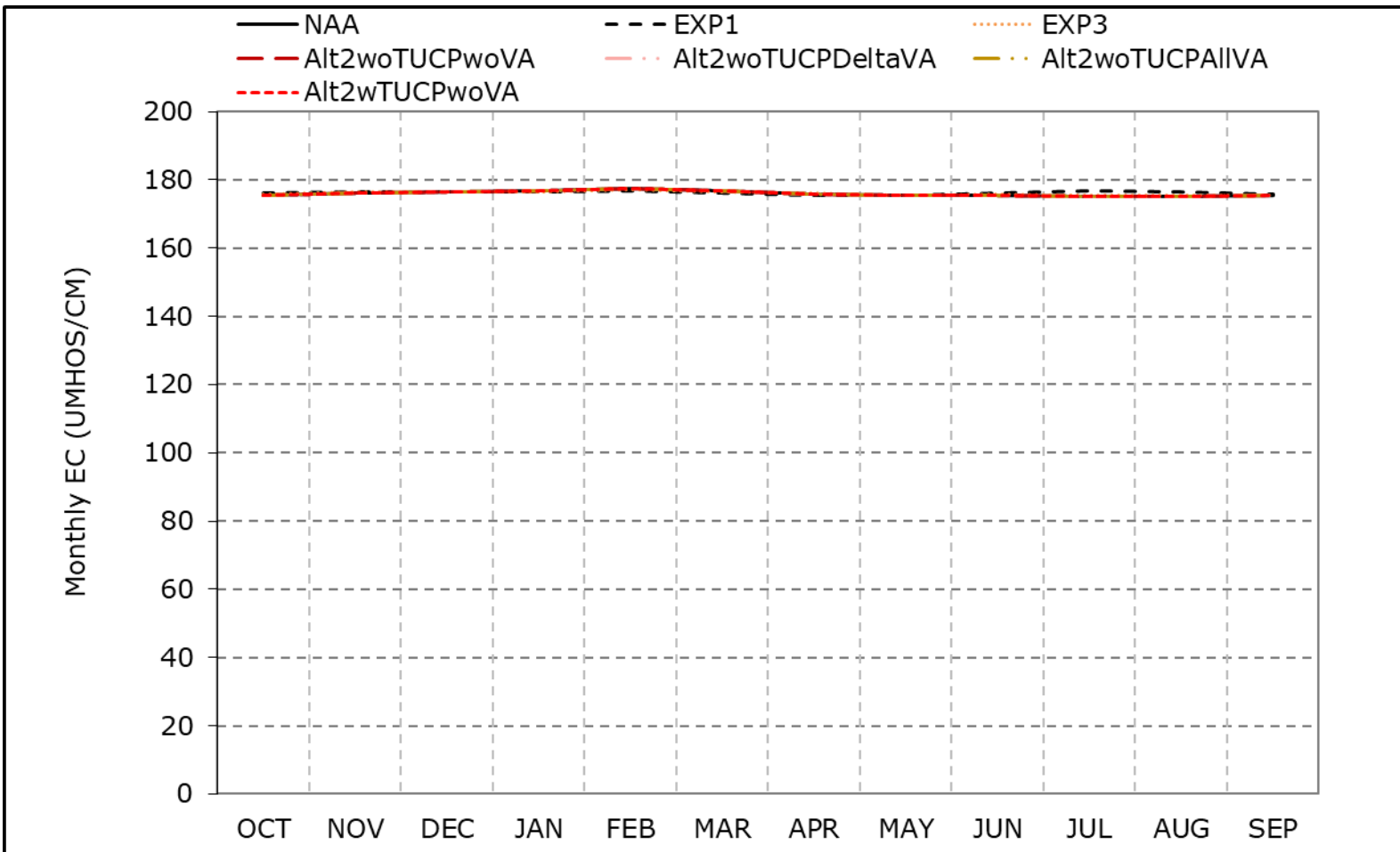


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-4. Sacramento River downstream of Steamboat Slough Salinity, Below Normal Year Average EC**



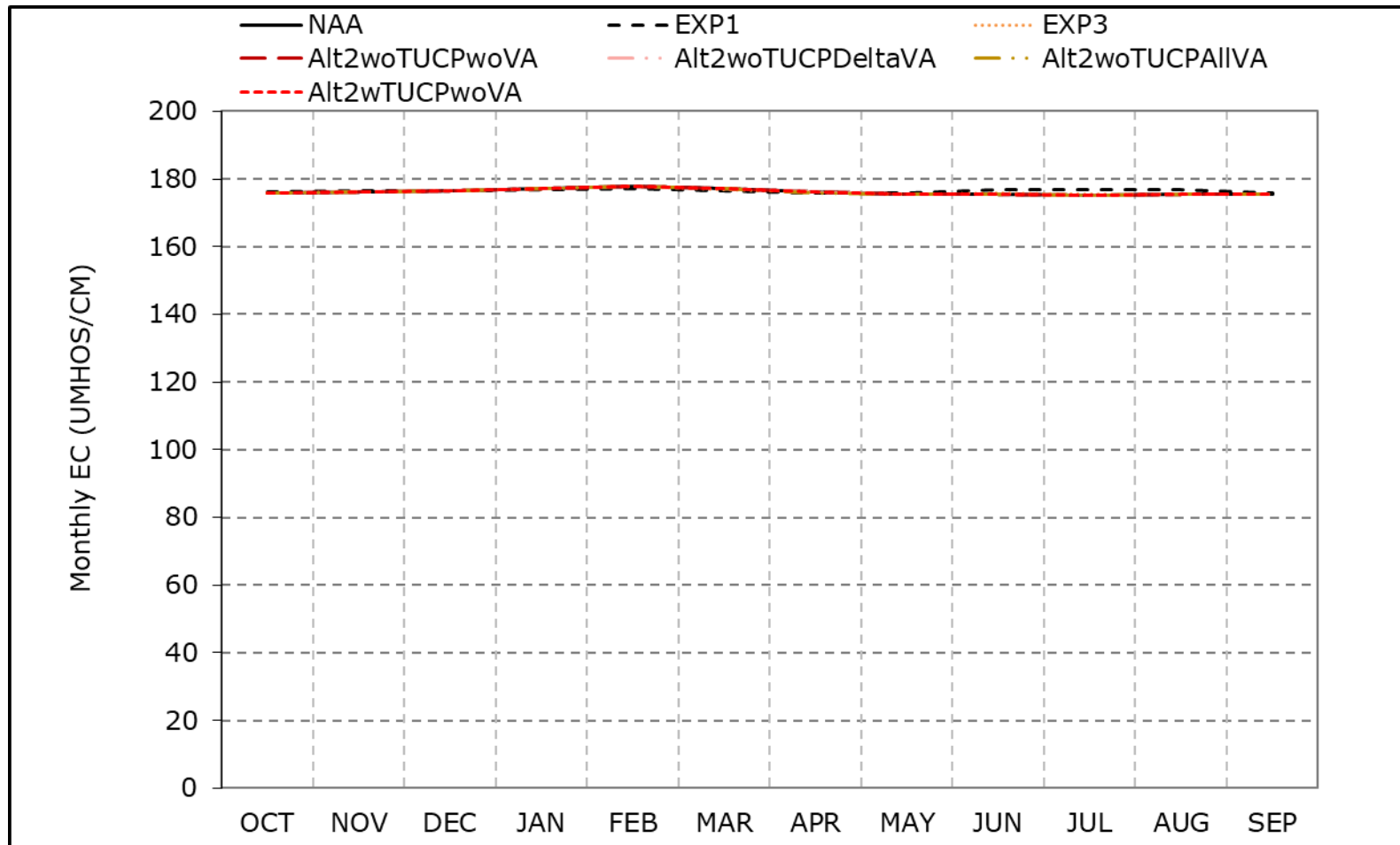
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-1-5. Sacramento River downstream of Steamboat Slough Salinity, Dry Year Average EC**

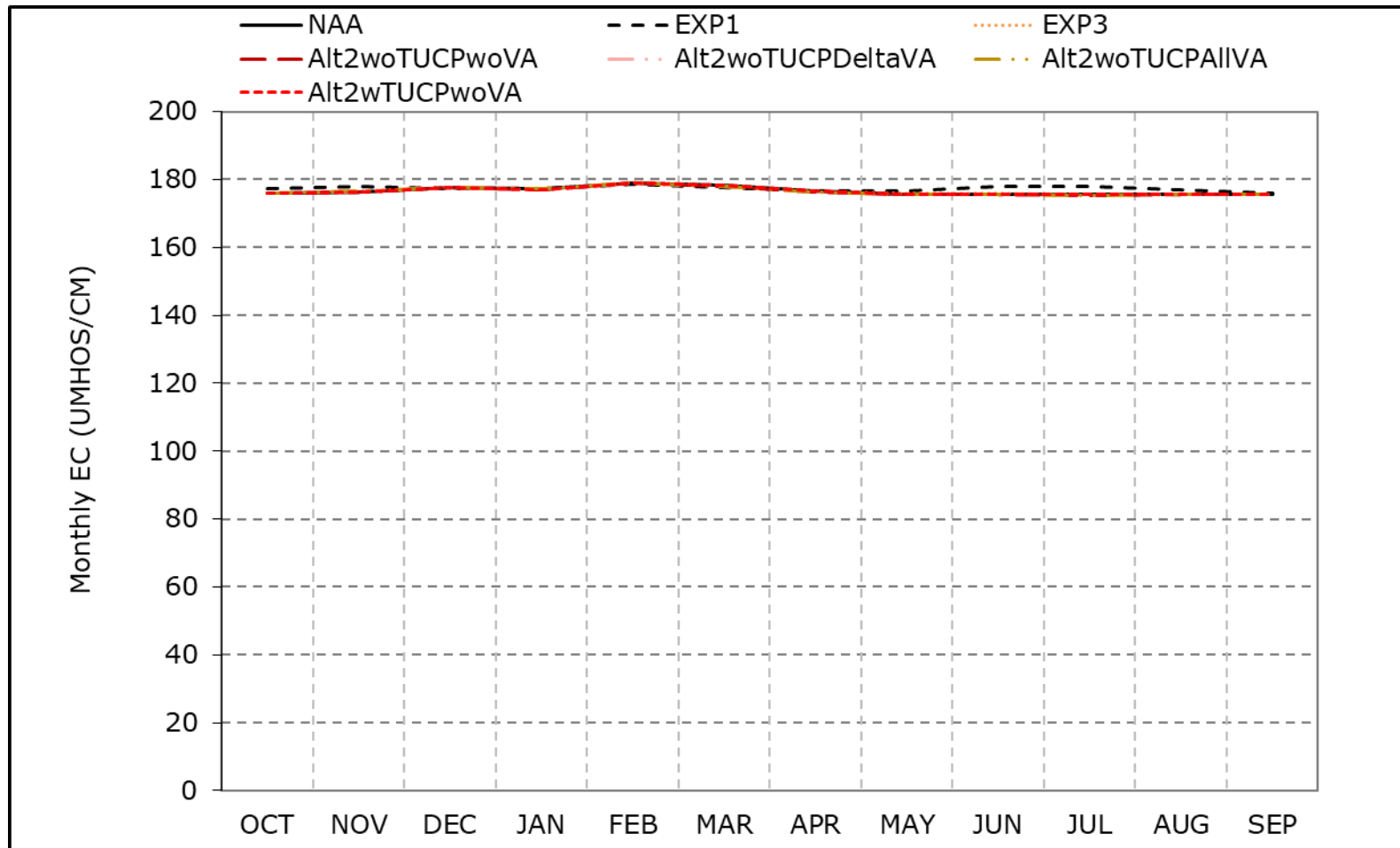


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-6. Sacramento River downstream of Steamboat Slough Salinity, Critical Year Average EC**

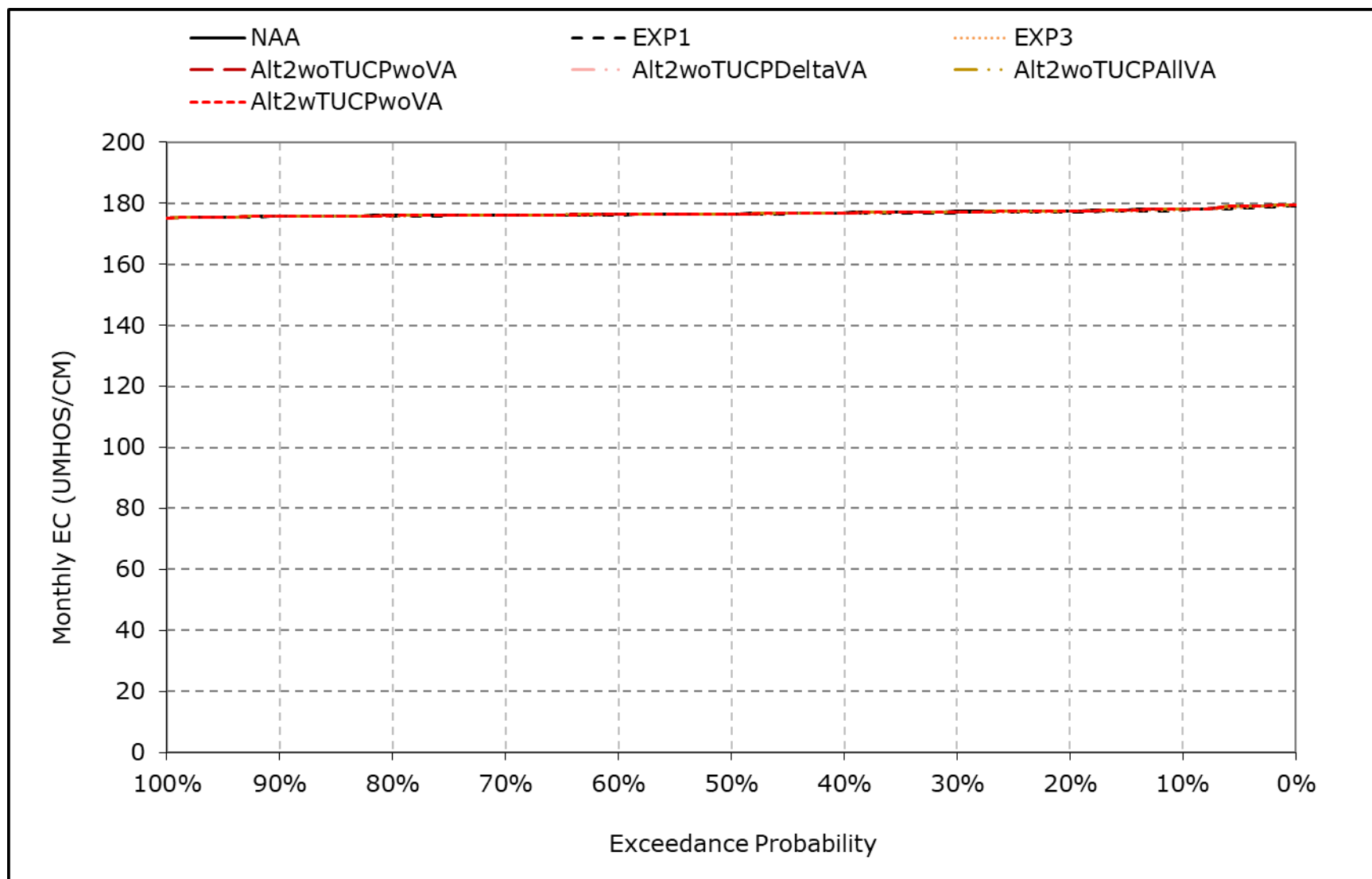


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

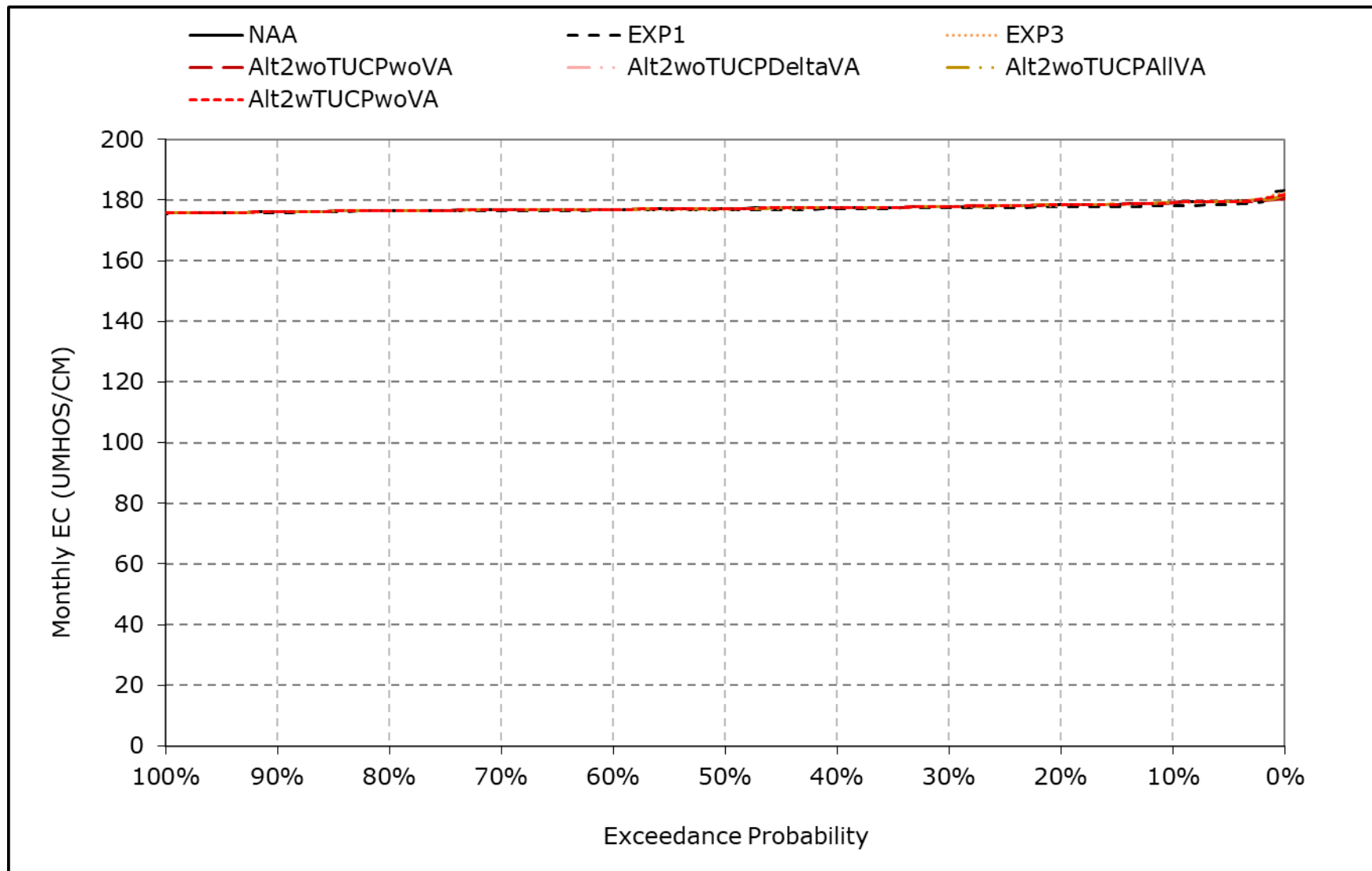
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-7. Sacramento River downstream of Steamboat Slough Salinity, January EC**



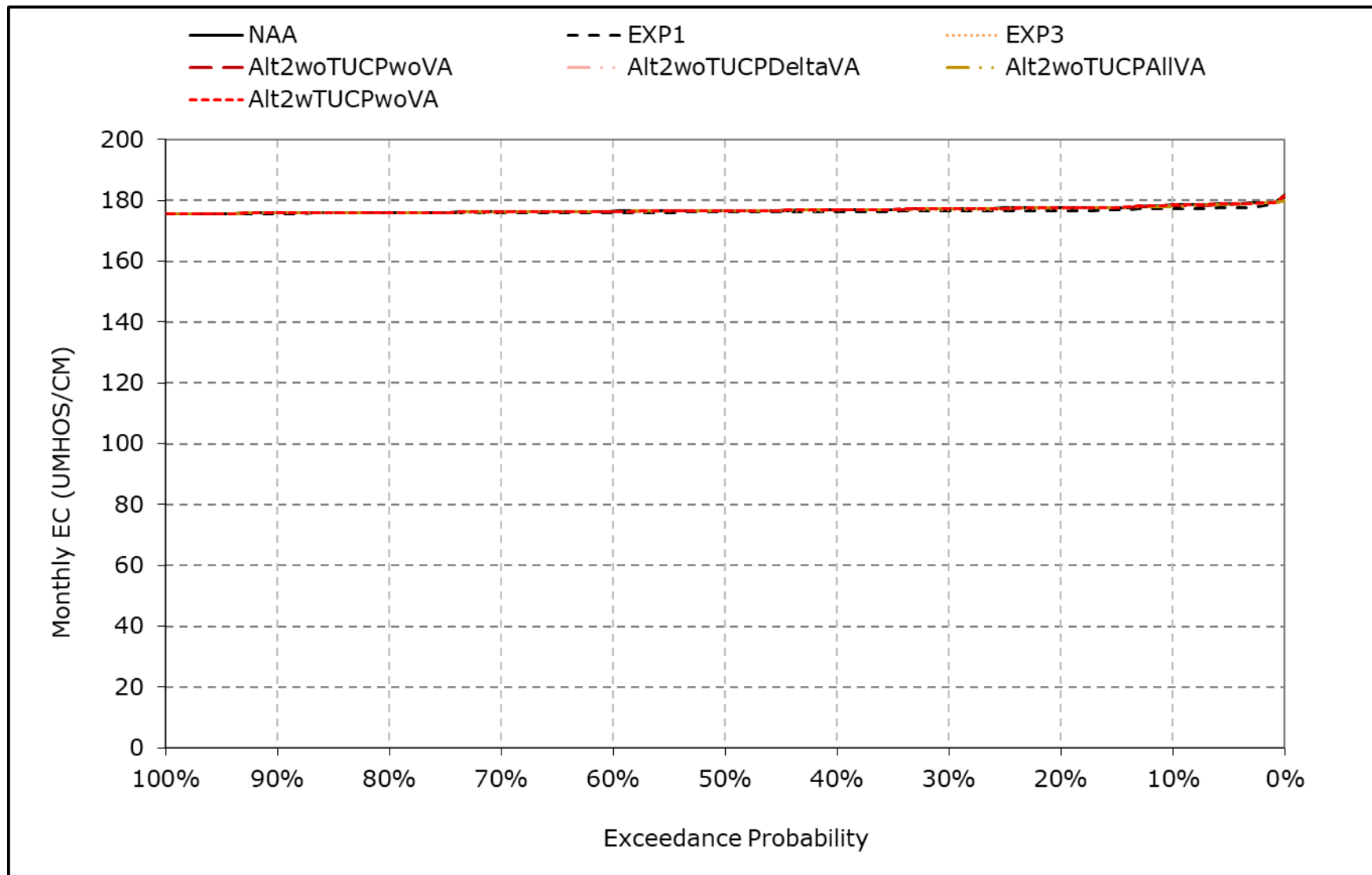
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-8. Sacramento River downstream of Steamboat Slough Salinity, February EC**



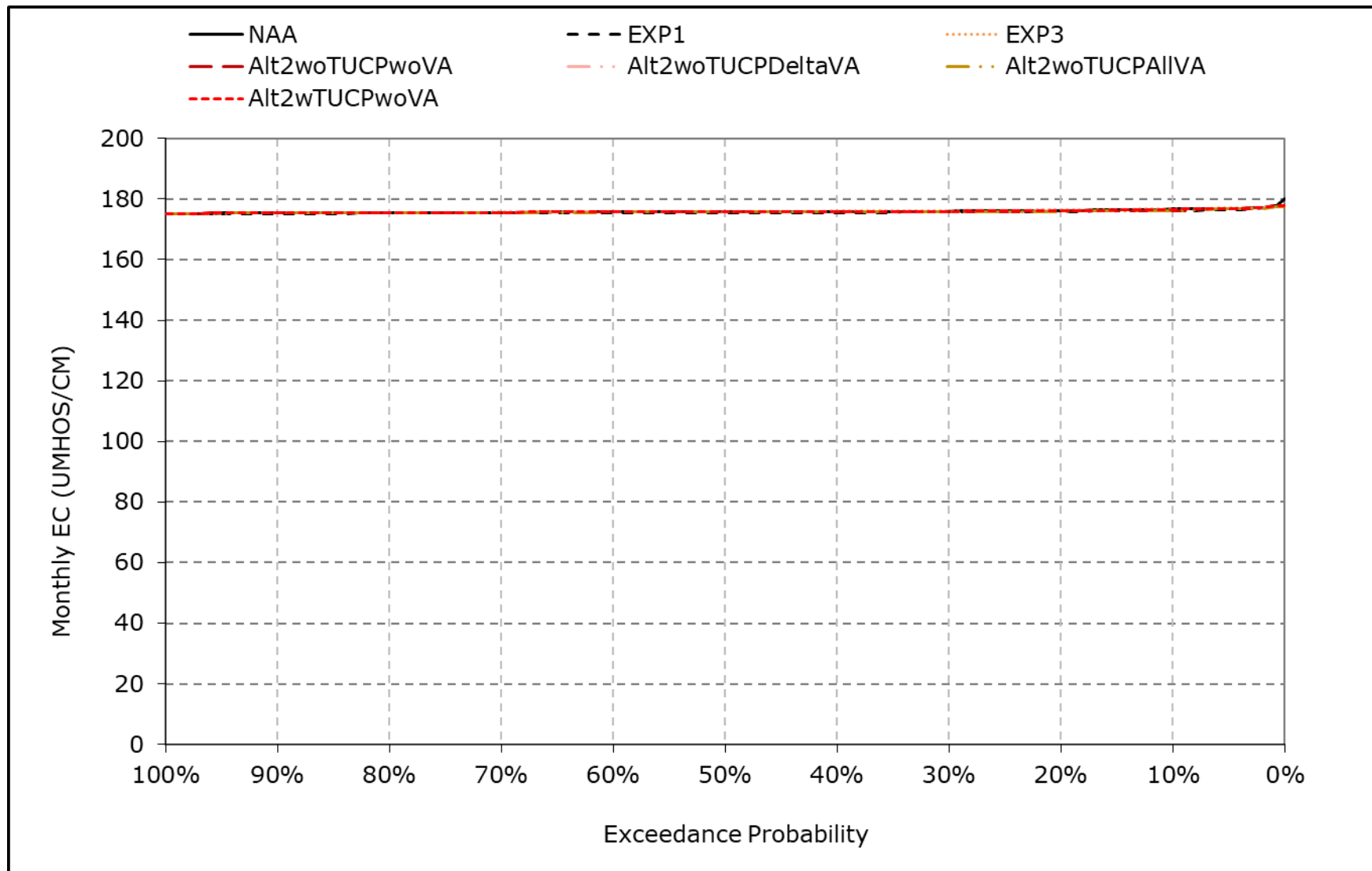
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-9. Sacramento River downstream of Steamboat Slough Salinity, March  
EC**



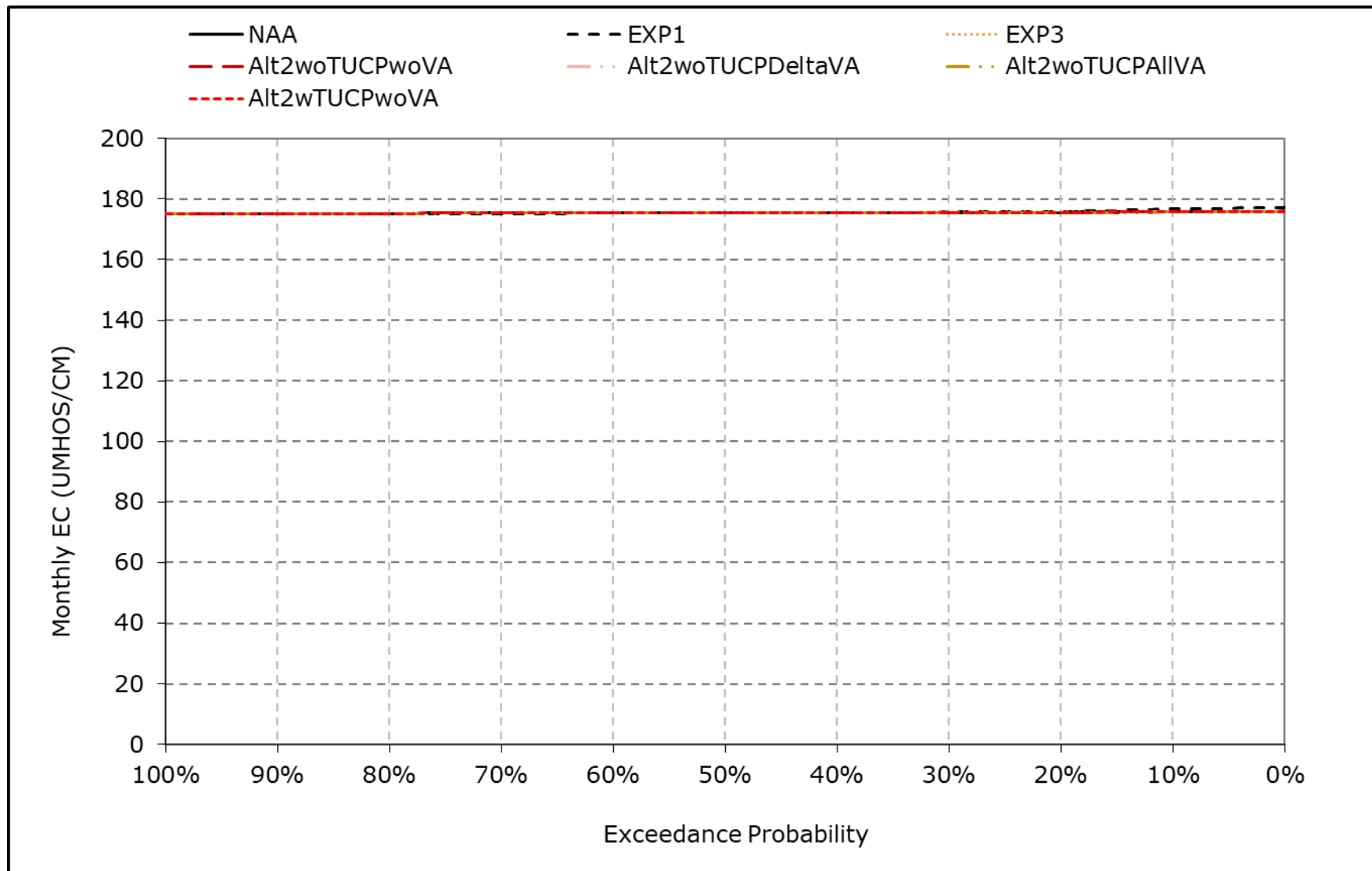
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-10. Sacramento River downstream of Steamboat Slough Salinity, April  
EC**



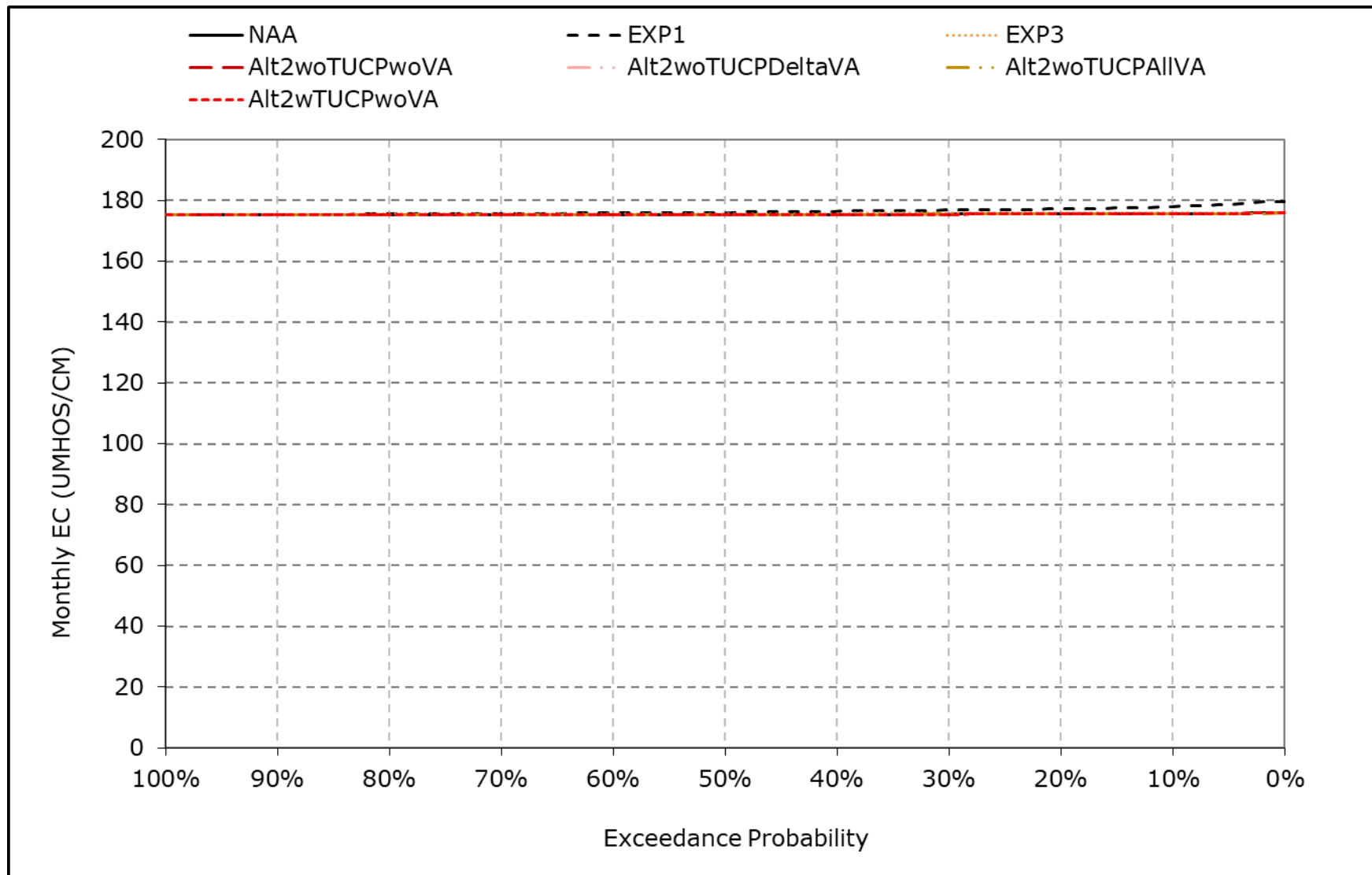
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-11. Sacramento River downstream of Steamboat Slough Salinity, May  
EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

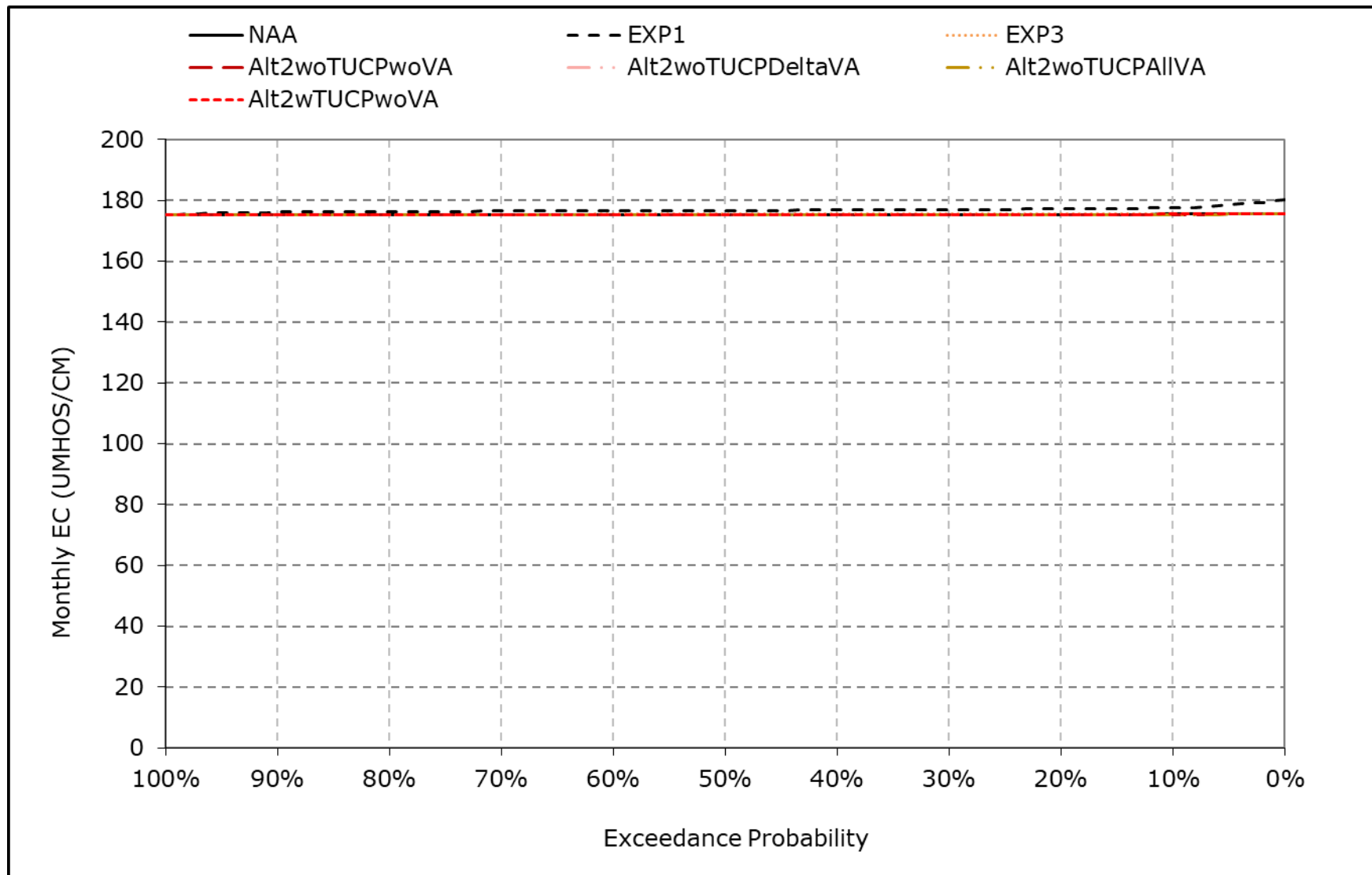
**Figure F.2.5-1-12. Sacramento River downstream of Steamboat Slough Salinity, June  
EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

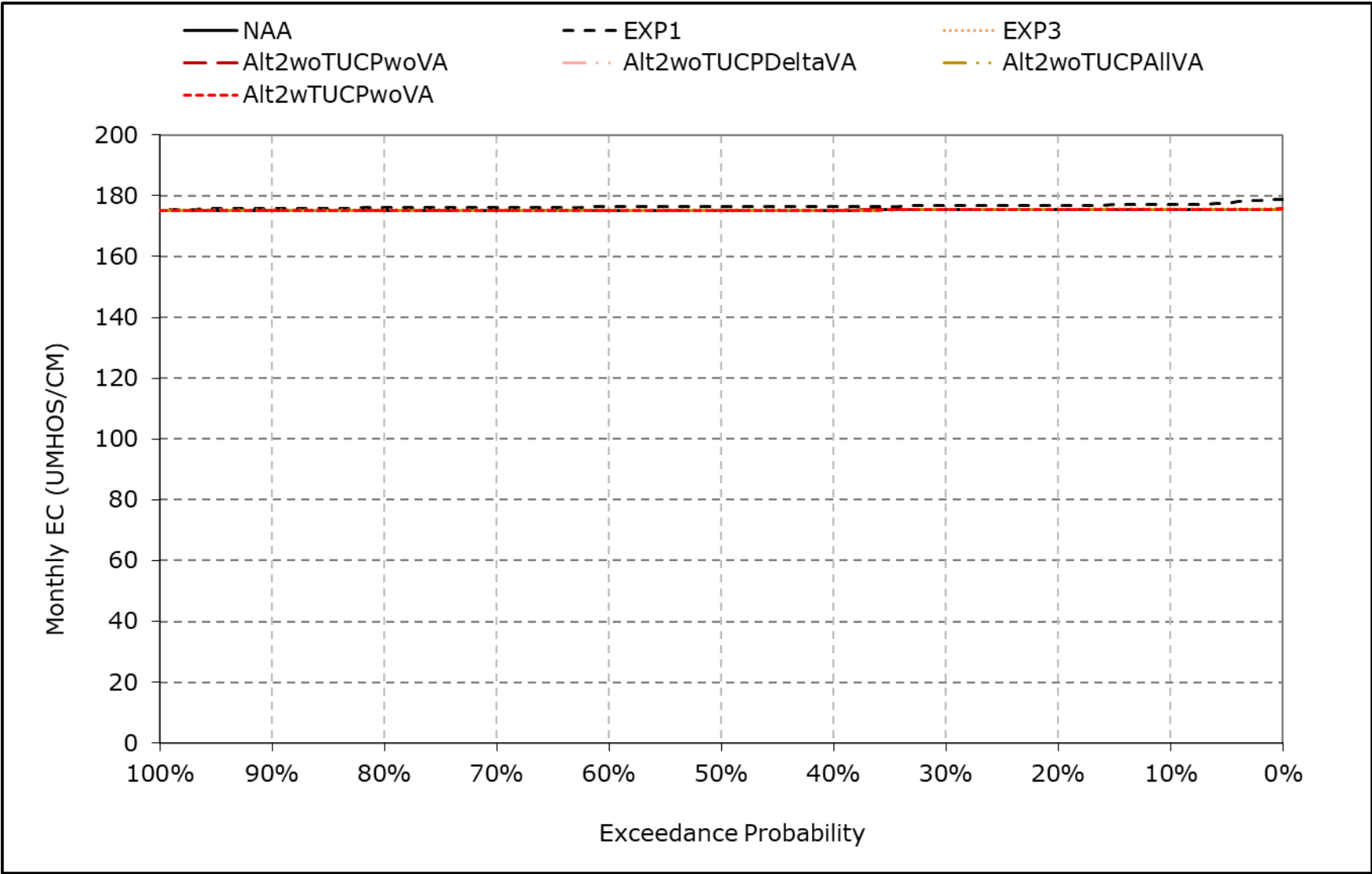


**Figure F.2.5-1-13. Sacramento River downstream of Steamboat Slough Salinity, July  
EC**



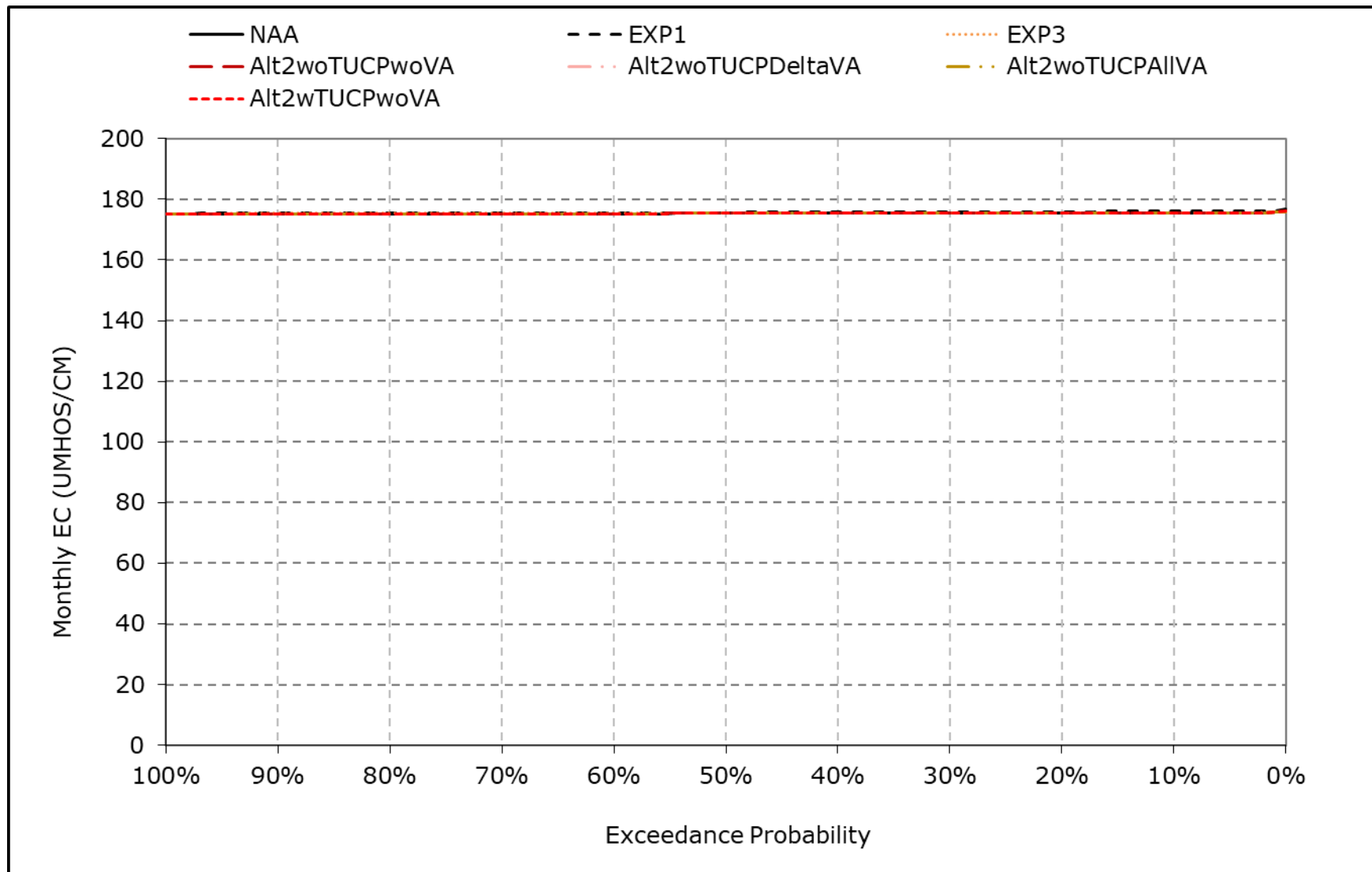
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-14. Sacramento River downstream of Steamboat Slough Salinity, August EC**



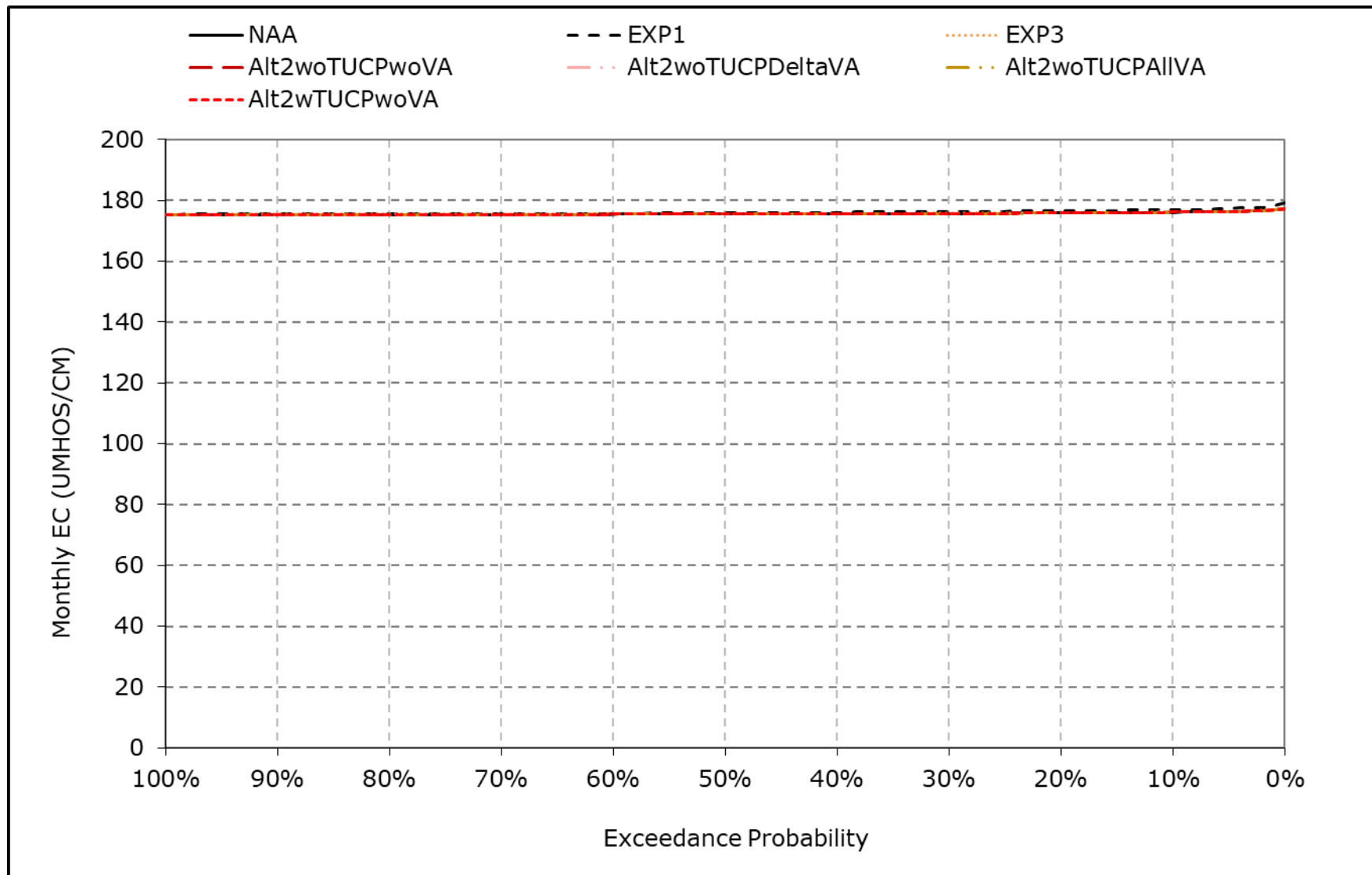
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-15. Sacramento River downstream of Steamboat Slough Salinity, September EC**



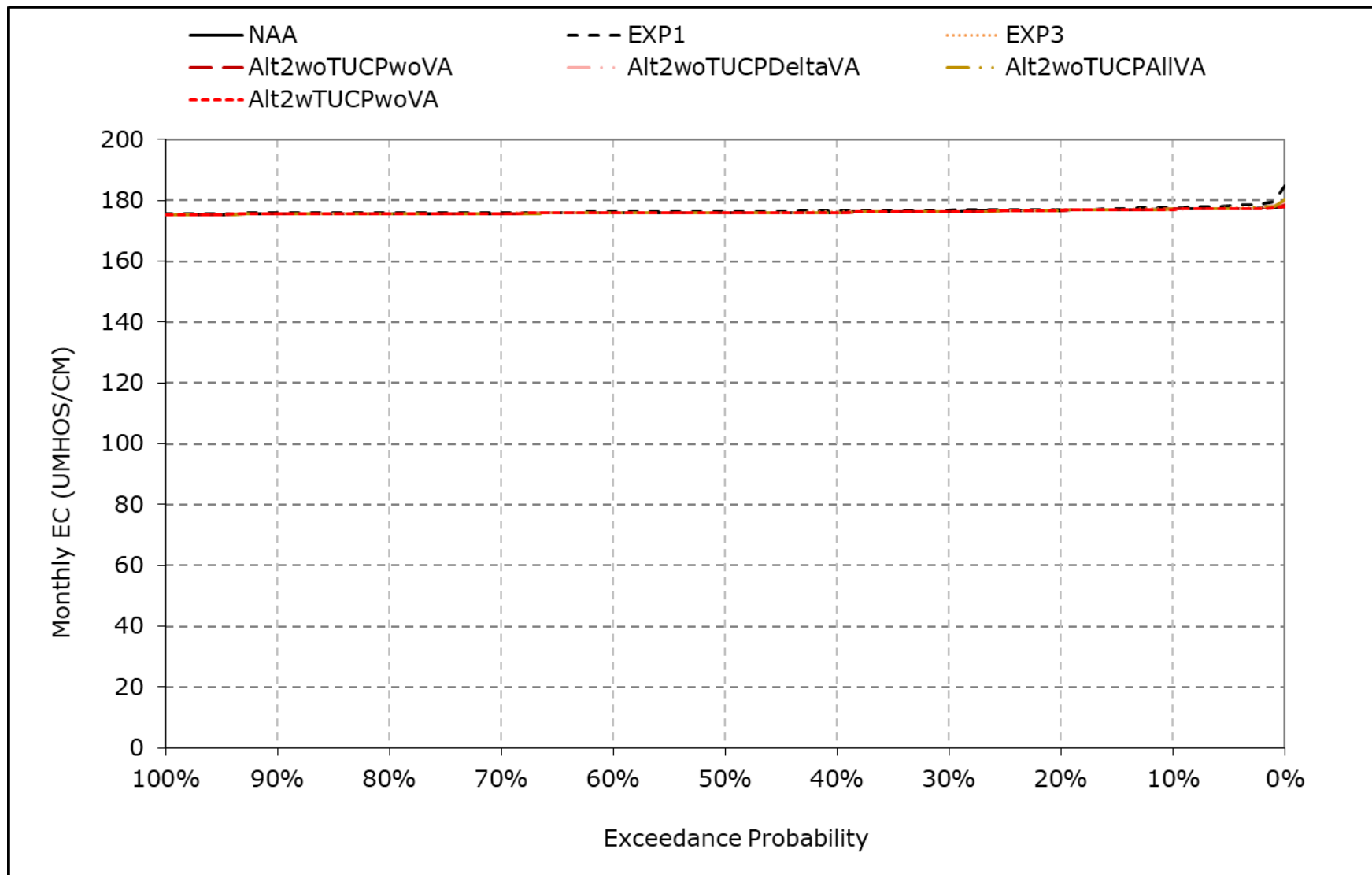
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-16. Sacramento River downstream of Steamboat Slough Salinity, October EC**



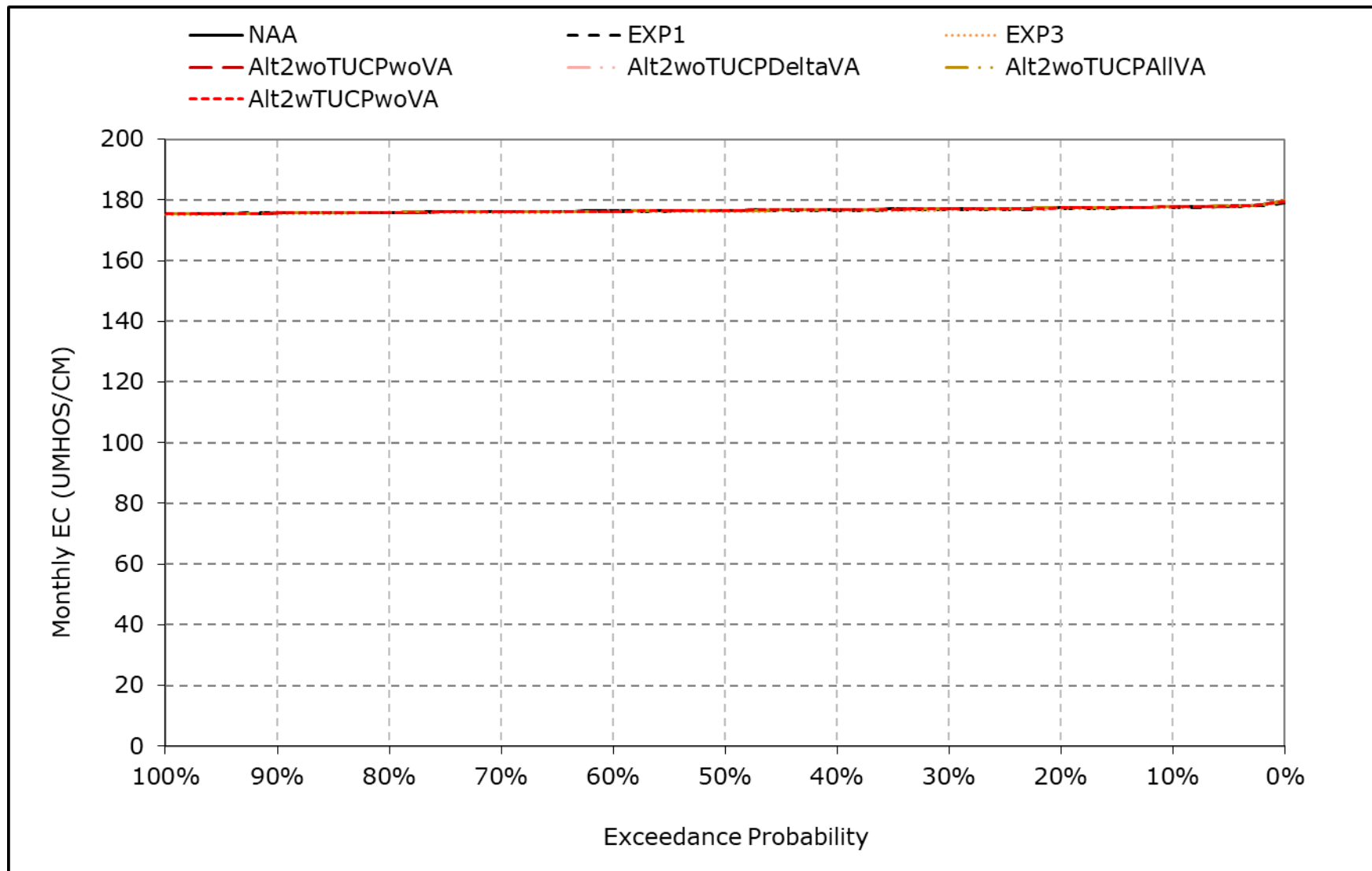
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-17. Sacramento River downstream of Steamboat Slough Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-1-18. Sacramento River downstream of Steamboat Slough Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-2-1a. Cache Slough at Ryer Island Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 190 | 196 | 193 | 192 | 195 | 195 | 193 | 188 | 192 | 197 | 195 | 189 |
| 20% Exceedance                              | 187 | 191 | 190 | 190 | 192 | 192 | 189 | 184 | 183 | 181 | 186 | 186 |
| 30% Exceedance                              | 185 | 188 | 189 | 188 | 190 | 190 | 187 | 183 | 182 | 180 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 189 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 185 | 185 | 185 | 187 | 188 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 179 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 179 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 187 | 186 | 185 | 186 | 187 | 186 | 183 | 184 | 183 | 183 | 183 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 182 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 187 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 200 | 193 | 191 | 194 | 196 | 195 | 191 | 199 | 200 | 198 | 191 |

**Table F.2.5-2-1b. Cache Slough at Ryer Island Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 191 | 194 | 191 | 192 | 195 | 194 | 190 | 185 | 186 | 186 | 191 | 189 |
| 20% Exceedance                              | 188 | 191 | 189 | 190 | 192 | 192 | 188 | 184 | 182 | 182 | 187 | 186 |
| 30% Exceedance                              | 185 | 188 | 188 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 188 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 184 | 185 | 185 | 187 | 187 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 180 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 180 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 186 | 186 | 185 | 186 | 187 | 185 | 182 | 183 | 181 | 183 | 182 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 188 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 185 | 184 |
| Critical Water Years (16%)                  | 193 | 195 | 193 | 192 | 194 | 195 | 190 | 187 | 191 | 188 | 192 | 190 |

**Table F.2.5-2-1c. Cache Slough at Ryer Island Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 1   | -1  | -2  | 0   | 0   | -1  | -3  | -3  | -6  | -11 | -5  | 0   |
| 20% Exceedance                              | 1   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 1   | 1   | 1   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | -1  | 0   | 0   | 0   | 0   | -1  | -1  | -1  | -2  | -1  | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | -5  | -1  | 1   | 0   | -1  | -5  | -4  | -9  | -12 | -5  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-2-2a. Cache Slough at Ryer Island Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 190 | 196 | 193 | 192 | 195 | 195 | 193 | 188 | 192 | 197 | 195 | 189 |
| 20% Exceedance                              | 187 | 191 | 190 | 190 | 192 | 192 | 189 | 184 | 183 | 181 | 186 | 186 |
| 30% Exceedance                              | 185 | 188 | 189 | 188 | 190 | 190 | 187 | 183 | 182 | 180 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 189 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 185 | 185 | 185 | 187 | 188 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 179 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 179 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 187 | 186 | 185 | 186 | 187 | 186 | 183 | 184 | 183 | 183 | 183 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 182 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 187 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 200 | 193 | 191 | 194 | 196 | 195 | 191 | 199 | 200 | 198 | 191 |

**Table F.2.5-2-2b. Cache Slough at Ryer Island Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 192 | 194 | 192 | 192 | 195 | 194 | 190 | 185 | 186 | 185 | 190 | 188 |
| 20% Exceedance                              | 187 | 191 | 189 | 190 | 192 | 193 | 189 | 184 | 183 | 182 | 185 | 186 |
| 30% Exceedance                              | 185 | 188 | 188 | 188 | 190 | 190 | 188 | 183 | 182 | 181 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 188 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 185 | 185 | 185 | 187 | 187 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 180 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 180 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 186 | 186 | 186 | 187 | 187 | 185 | 182 | 183 | 181 | 183 | 182 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 183 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 188 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 196 | 194 | 193 | 194 | 195 | 190 | 187 | 191 | 187 | 192 | 189 |

**Table F.2.5-2-2c. Cache Slough at Ryer Island Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 3   | -2  | -1  | 0   | 0   | -1  | -2  | -3  | -6  | -12 | -5  | -1  |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | -1  | 0   | 0   | 0   | 0   | -1  | -1  | -1  | -2  | -1  | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | -4  | 1   | 2   | 1   | -1  | -5  | -4  | -9  | -13 | -6  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-2-3a. Cache Slough at Ryer Island Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 190 | 196 | 193 | 192 | 195 | 195 | 193 | 188 | 192 | 197 | 195 | 189 |
| 20% Exceedance                              | 187 | 191 | 190 | 190 | 192 | 192 | 189 | 184 | 183 | 181 | 186 | 186 |
| 30% Exceedance                              | 185 | 188 | 189 | 188 | 190 | 190 | 187 | 183 | 182 | 180 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 189 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 185 | 185 | 185 | 187 | 188 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 179 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 179 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 187 | 186 | 185 | 186 | 187 | 186 | 183 | 184 | 183 | 183 | 183 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 182 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 187 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 200 | 193 | 191 | 194 | 196 | 195 | 191 | 199 | 200 | 198 | 191 |

**Table F.2.5-2-3b. Cache Slough at Ryer Island Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 192 | 194 | 194 | 193 | 195 | 194 | 189 | 185 | 185 | 186 | 190 | 188 |
| 20% Exceedance                              | 187 | 191 | 189 | 190 | 193 | 192 | 188 | 183 | 183 | 182 | 186 | 186 |
| 30% Exceedance                              | 185 | 188 | 188 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 188 | 185 | 182 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 183 | 184 | 185 | 185 | 187 | 187 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 180 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 180 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 181 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 187 | 186 | 186 | 186 | 187 | 185 | 182 | 183 | 181 | 182 | 182 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 183 | 183 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 183 | 186 | 184 | 186 | 188 | 188 | 185 | 182 | 182 | 180 | 180 | 181 |
| Dry Water Years (24%)                       | 185 | 187 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 201 | 196 | 193 | 194 | 195 | 190 | 186 | 190 | 187 | 191 | 189 |

**Table F.2.5-2-3c. Cache Slough at Ryer Island Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 3   | -1  | 1   | 0   | 0   | -1  | -3  | -3  | -7  | -11 | -5  | -1  |
| 20% Exceedance                              | -1  | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 1   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 1   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | -1  | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | -1  | -2  | -1  | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 1   | 2   | 2   | 1   | -1  | -6  | -5  | -10 | -13 | -7  | -2  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-2-4a. Cache Slough at Ryer Island Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 190 | 196 | 193 | 192 | 195 | 195 | 193 | 188 | 192 | 197 | 195 | 189 |
| 20% Exceedance                              | 187 | 191 | 190 | 190 | 192 | 192 | 189 | 184 | 183 | 181 | 186 | 186 |
| 30% Exceedance                              | 185 | 188 | 189 | 188 | 190 | 190 | 187 | 183 | 182 | 180 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 189 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 185 | 185 | 185 | 187 | 188 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 179 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 179 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 187 | 186 | 185 | 186 | 187 | 186 | 183 | 184 | 183 | 183 | 183 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 182 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 187 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 200 | 193 | 191 | 194 | 196 | 195 | 191 | 199 | 200 | 198 | 191 |

**Table F.2.5-2-4b. Cache Slough at Ryer Island Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 191 | 195 | 192 | 192 | 195 | 195 | 192 | 187 | 194 | 196 | 196 | 189 |
| 20% Exceedance                              | 188 | 191 | 189 | 190 | 192 | 192 | 189 | 184 | 182 | 182 | 187 | 186 |
| 30% Exceedance                              | 185 | 188 | 188 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 188 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 184 | 185 | 185 | 187 | 187 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 180 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 180 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 186 | 186 | 185 | 186 | 187 | 186 | 183 | 184 | 183 | 184 | 183 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 182 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 181 |
| Dry Water Years (24%)                       | 185 | 188 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 185 | 184 |
| Critical Water Years (16%)                  | 192 | 197 | 193 | 189 | 194 | 196 | 195 | 190 | 198 | 200 | 198 | 190 |

**Table F.2.5-2-4c. Cache Slough at Ryer Island Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 1   | 0   | -2  | 0   | 0   | 0   | -1  | -1  | 2   | -1  | 0   | 0   |
| 20% Exceedance                              | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 1   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   |
| Critical Water Years (16%)                  | -1  | -3  | -1  | -1  | 0   | 0   | -1  | -1  | -1  | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-2-5a. Cache Slough at Ryer Island Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 190 | 196 | 193 | 192 | 195 | 195 | 193 | 188 | 192 | 197 | 195 | 189 |
| 20% Exceedance                              | 187 | 191 | 190 | 190 | 192 | 192 | 189 | 184 | 183 | 181 | 186 | 186 |
| 30% Exceedance                              | 185 | 188 | 189 | 188 | 190 | 190 | 187 | 183 | 182 | 180 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 189 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 185 | 185 | 185 | 187 | 188 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 179 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 179 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 187 | 186 | 185 | 186 | 187 | 186 | 183 | 184 | 183 | 183 | 183 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 182 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 187 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 200 | 193 | 191 | 194 | 196 | 195 | 191 | 199 | 200 | 198 | 191 |

**Table F.2.5-2-5b. Cache Slough at Ryer Island Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 185 | 188 | 189 | 191 | 194 | 195 | 193 | 188 | 195 | 190 | 190 | 184 |
| 20% Exceedance                              | 184 | 186 | 187 | 189 | 192 | 192 | 191 | 187 | 192 | 187 | 188 | 183 |
| 30% Exceedance                              | 183 | 185 | 186 | 187 | 190 | 190 | 189 | 186 | 190 | 185 | 186 | 182 |
| 40% Exceedance                              | 182 | 184 | 184 | 185 | 188 | 188 | 187 | 184 | 186 | 184 | 185 | 182 |
| 50% Exceedance                              | 182 | 183 | 182 | 184 | 185 | 187 | 186 | 184 | 185 | 183 | 184 | 181 |
| 60% Exceedance                              | 182 | 182 | 181 | 182 | 183 | 183 | 185 | 182 | 184 | 182 | 184 | 181 |
| 70% Exceedance                              | 182 | 182 | 180 | 181 | 181 | 182 | 183 | 181 | 183 | 182 | 183 | 181 |
| 80% Exceedance                              | 181 | 181 | 179 | 180 | 180 | 181 | 181 | 180 | 181 | 182 | 183 | 181 |
| 90% Exceedance                              | 181 | 181 | 177 | 178 | 178 | 179 | 181 | 179 | 180 | 181 | 182 | 181 |
| Full Simulation Period Average <sup>a</sup> | 183 | 184 | 183 | 184 | 186 | 187 | 187 | 184 | 186 | 185 | 185 | 182 |
| Wet Water Years (28%)                       | 181 | 182 | 180 | 179 | 180 | 181 | 181 | 181 | 181 | 182 | 183 | 181 |
| Above Normal Years (14%)                    | 182 | 183 | 183 | 183 | 182 | 182 | 183 | 182 | 183 | 182 | 183 | 181 |
| Below Normal Years (18%)                    | 182 | 184 | 182 | 185 | 187 | 187 | 186 | 184 | 187 | 184 | 184 | 181 |
| Dry Water Years (24%)                       | 183 | 184 | 183 | 187 | 189 | 189 | 188 | 185 | 189 | 185 | 187 | 182 |
| Critical Water Years (16%)                  | 186 | 189 | 191 | 190 | 195 | 196 | 196 | 190 | 194 | 191 | 191 | 184 |

**Table F.2.5-2-5c. Cache Slough at Ryer Island Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -4  | -7  | -4  | -1  | 0   | 0   | 1   | 0   | 3   | -7  | -6  | -5  |
| 20% Exceedance                              | -3  | -5  | -2  | -1  | 0   | 0   | 2   | 3   | 9   | 6   | 2   | -3  |
| 30% Exceedance                              | -2  | -3  | -3  | -1  | 0   | 0   | 2   | 3   | 8   | 5   | 4   | -1  |
| 40% Exceedance                              | -2  | -2  | -3  | -1  | -1  | -1  | 1   | 2   | 4   | 4   | 4   | -1  |
| 50% Exceedance                              | 0   | -2  | -3  | -1  | -1  | -1  | 1   | 1   | 4   | 3   | 4   | 0   |
| 60% Exceedance                              | 1   | -1  | -3  | -1  | -1  | -1  | 1   | 1   | 2   | 3   | 4   | 2   |
| 70% Exceedance                              | 1   | 0   | -3  | -1  | 0   | 0   | 0   | 1   | 1   | 3   | 4   | 2   |
| 80% Exceedance                              | 2   | 0   | -2  | -1  | 0   | -1  | 0   | 0   | 0   | 3   | 4   | 2   |
| 90% Exceedance                              | 2   | 0   | -2  | -1  | 0   | 0   | 0   | 0   | 0   | 2   | 3   | 2   |
| Full Simulation Period Average <sup>a</sup> | -1  | -3  | -3  | -1  | 0   | 0   | 1   | 1   | 2   | 2   | 2   | -1  |
| Wet Water Years (28%)                       | 2   | 0   | -3  | -1  | 0   | 0   | 0   | 0   | 1   | 2   | 3   | 2   |
| Above Normal Years (14%)                    | 1   | 0   | -3  | -1  | -1  | 0   | 0   | 1   | 2   | 3   | 4   | 2   |
| Below Normal Years (18%)                    | -2  | -3  | -2  | -1  | -1  | -1  | 0   | 2   | 5   | 4   | 4   | 0   |
| Dry Water Years (24%)                       | -2  | -4  | -3  | -1  | -1  | -1  | 1   | 2   | 8   | 5   | 3   | -2  |
| Critical Water Years (16%)                  | -7  | -11 | -3  | -1  | 1   | 1   | 0   | -1  | -6  | -9  | -7  | -7  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-2-6a. Cache Slough at Ryer Island Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 10% Exceedance                              | 543 | 531 | 240 | 193 | 193 | 191 | 188 | 204 | 393 | 795 | 1,138 | 639 |
| 20% Exceedance                              | 417 | 357 | 209 | 190 | 190 | 189 | 186 | 188 | 288 | 608 | 920   | 496 |
| 30% Exceedance                              | 298 | 221 | 192 | 187 | 189 | 186 | 185 | 184 | 240 | 535 | 802   | 433 |
| 40% Exceedance                              | 242 | 201 | 188 | 185 | 187 | 185 | 184 | 183 | 204 | 387 | 656   | 383 |
| 50% Exceedance                              | 211 | 192 | 186 | 184 | 184 | 184 | 183 | 182 | 192 | 338 | 604   | 352 |
| 60% Exceedance                              | 198 | 188 | 184 | 182 | 182 | 182 | 182 | 181 | 186 | 303 | 497   | 279 |
| 70% Exceedance                              | 188 | 185 | 183 | 181 | 181 | 181 | 180 | 180 | 183 | 249 | 346   | 213 |
| 80% Exceedance                              | 184 | 184 | 181 | 180 | 179 | 180 | 180 | 179 | 181 | 204 | 237   | 193 |
| 90% Exceedance                              | 182 | 183 | 179 | 178 | 178 | 178 | 179 | 178 | 180 | 189 | 201   | 184 |
| Full Simulation Period Average <sup>a</sup> | 311 | 294 | 209 | 191 | 186 | 185 | 185 | 190 | 246 | 432 | 627   | 367 |
| Wet Water Years (28%)                       | 188 | 185 | 183 | 179 | 179 | 180 | 180 | 180 | 183 | 237 | 321   | 215 |
| Above Normal Years (14%)                    | 201 | 190 | 185 | 182 | 181 | 181 | 181 | 181 | 190 | 311 | 510   | 278 |
| Below Normal Years (18%)                    | 259 | 222 | 191 | 187 | 187 | 184 | 183 | 184 | 222 | 451 | 747   | 373 |
| Dry Water Years (24%)                       | 331 | 282 | 211 | 188 | 187 | 186 | 185 | 187 | 264 | 563 | 852   | 466 |
| Critical Water Years (16%)                  | 679 | 709 | 302 | 229 | 200 | 194 | 200 | 229 | 405 | 664 | 792   | 555 |

**Table F.2.5-2-6b. Cache Slough at Ryer Island Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 191 | 194 | 191 | 192 | 195 | 194 | 190 | 185 | 186 | 186 | 191 | 189 |
| 20% Exceedance                              | 188 | 191 | 189 | 190 | 192 | 192 | 188 | 184 | 182 | 182 | 187 | 186 |
| 30% Exceedance                              | 185 | 188 | 188 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 188 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 184 | 185 | 185 | 187 | 187 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 180 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 180 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 186 | 186 | 185 | 186 | 187 | 185 | 182 | 183 | 181 | 183 | 182 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 188 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 185 | 184 |
| Critical Water Years (16%)                  | 193 | 195 | 193 | 192 | 194 | 195 | 190 | 187 | 191 | 188 | 192 | 190 |

**Table F.2.5-2-6c. Cache Slough at Ryer Island Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|
| 10% Exceedance                              | -353 | -337 | -48  | -1  | 2   | 3   | 1   | -19 | -207 | -609 | -947 | -450 |
| 20% Exceedance                              | -228 | -166 | -19  | 0   | 2   | 3   | 2   | -4  | -105 | -426 | -733 | -310 |
| 30% Exceedance                              | -113 | -33  | -3   | 1   | 2   | 4   | 3   | -1  | -58  | -355 | -618 | -249 |
| 40% Exceedance                              | -58  | -14  | -2   | 1   | 2   | 3   | 2   | -1  | -22  | -207 | -475 | -201 |
| 50% Exceedance                              | -29  | -8   | -1   | 1   | 3   | 3   | 3   | 0   | -11  | -158 | -424 | -170 |
| 60% Exceedance                              | -17  | -5   | -1   | 1   | 2   | 3   | 2   | 1   | -4   | -123 | -318 | -99  |
| 70% Exceedance                              | -8   | -3   | 0    | 1   | 1   | 2   | 3   | 1   | -2   | -70  | -166 | -34  |
| 80% Exceedance                              | -4   | -2   | 0    | 1   | 0   | 2   | 2   | 1   | 0    | -25  | -58  | -14  |
| 90% Exceedance                              | -3   | -2   | 1    | 1   | 0   | 1   | 2   | 1   | 1    | -10  | -22  | -6   |
| Full Simulation Period Average <sup>a</sup> | -127 | -108 | -24  | -6  | 0   | 2   | 0   | -8  | -63  | -251 | -444 | -184 |
| Wet Water Years (28%)                       | -8   | -3   | 0    | 1   | 0   | 1   | 1   | 1   | -2   | -57  | -142 | -36  |
| Above Normal Years (14%)                    | -21  | -7   | 0    | 1   | 1   | 2   | 2   | 0   | -9   | -132 | -331 | -99  |
| Below Normal Years (18%)                    | -76  | -36  | -7   | 0   | 2   | 3   | 3   | -2  | -41  | -271 | -566 | -191 |
| Dry Water Years (24%)                       | -146 | -94  | -24  | 0   | 3   | 4   | 2   | -4  | -82  | -382 | -667 | -282 |
| Critical Water Years (16%)                  | -486 | -514 | -109 | -38 | -6  | 1   | -10 | -42 | -215 | -476 | -600 | -365 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-2-7a. Cache Slough at Ryer Island Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 10% Exceedance                              | 543 | 531 | 240 | 193 | 193 | 191 | 188 | 204 | 393 | 795 | 1,138 | 639 |
| 20% Exceedance                              | 417 | 357 | 209 | 190 | 190 | 189 | 186 | 188 | 288 | 608 | 920   | 496 |
| 30% Exceedance                              | 298 | 221 | 192 | 187 | 189 | 186 | 185 | 184 | 240 | 535 | 802   | 433 |
| 40% Exceedance                              | 242 | 201 | 188 | 185 | 187 | 185 | 184 | 183 | 204 | 387 | 656   | 383 |
| 50% Exceedance                              | 211 | 192 | 186 | 184 | 184 | 184 | 183 | 182 | 192 | 338 | 604   | 352 |
| 60% Exceedance                              | 198 | 188 | 184 | 182 | 182 | 182 | 182 | 181 | 186 | 303 | 497   | 279 |
| 70% Exceedance                              | 188 | 185 | 183 | 181 | 181 | 181 | 180 | 180 | 183 | 249 | 346   | 213 |
| 80% Exceedance                              | 184 | 184 | 181 | 180 | 179 | 180 | 180 | 179 | 181 | 204 | 237   | 193 |
| 90% Exceedance                              | 182 | 183 | 179 | 178 | 178 | 178 | 179 | 178 | 180 | 189 | 201   | 184 |
| Full Simulation Period Average <sup>a</sup> | 311 | 294 | 209 | 191 | 186 | 185 | 185 | 190 | 246 | 432 | 627   | 367 |
| Wet Water Years (28%)                       | 188 | 185 | 183 | 179 | 179 | 180 | 180 | 180 | 183 | 237 | 321   | 215 |
| Above Normal Years (14%)                    | 201 | 190 | 185 | 182 | 181 | 181 | 181 | 181 | 190 | 311 | 510   | 278 |
| Below Normal Years (18%)                    | 259 | 222 | 191 | 187 | 187 | 184 | 183 | 184 | 222 | 451 | 747   | 373 |
| Dry Water Years (24%)                       | 331 | 282 | 211 | 188 | 187 | 186 | 185 | 187 | 264 | 563 | 852   | 466 |
| Critical Water Years (16%)                  | 679 | 709 | 302 | 229 | 200 | 194 | 200 | 229 | 405 | 664 | 792   | 555 |

**Table F.2.5-2-7b. Cache Slough at Ryer Island Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 192 | 194 | 192 | 192 | 195 | 194 | 190 | 185 | 186 | 185 | 190 | 188 |
| 20% Exceedance                              | 187 | 191 | 189 | 190 | 192 | 193 | 189 | 184 | 183 | 182 | 185 | 186 |
| 30% Exceedance                              | 185 | 188 | 188 | 188 | 190 | 190 | 188 | 183 | 182 | 181 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 188 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 185 | 185 | 185 | 187 | 187 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 180 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 180 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 186 | 186 | 186 | 187 | 187 | 185 | 182 | 183 | 181 | 183 | 182 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 183 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 188 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 196 | 194 | 193 | 194 | 195 | 190 | 187 | 191 | 187 | 192 | 189 |

**Table F.2.5-2-7c. Cache Slough at Ryer Island Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|
| 10% Exceedance                              | -351 | -337 | -48  | -1  | 2   | 3   | 2   | -19 | -206 | -610 | -948 | -451 |
| 20% Exceedance                              | -229 | -166 | -19  | 0   | 2   | 4   | 3   | -4  | -105 | -427 | -735 | -310 |
| 30% Exceedance                              | -113 | -33  | -4   | 0   | 2   | 4   | 3   | -1  | -58  | -355 | -619 | -249 |
| 40% Exceedance                              | -58  | -15  | -2   | 0   | 2   | 3   | 2   | -1  | -22  | -207 | -475 | -201 |
| 50% Exceedance                              | -29  | -8   | -1   | 1   | 3   | 3   | 3   | 0   | -10  | -158 | -424 | -170 |
| 60% Exceedance                              | -17  | -5   | -1   | 1   | 2   | 3   | 2   | 1   | -4   | -123 | -318 | -100 |
| 70% Exceedance                              | -8   | -3   | 0    | 1   | 1   | 2   | 3   | 1   | -2   | -70  | -166 | -34  |
| 80% Exceedance                              | -4   | -3   | 0    | 1   | 0   | 2   | 2   | 1   | 0    | -25  | -58  | -14  |
| 90% Exceedance                              | -3   | -2   | 1    | 1   | 0   | 1   | 1   | 1   | 1    | -10  | -22  | -6   |
| Full Simulation Period Average <sup>a</sup> | -127 | -108 | -23  | -6  | 0   | 2   | 0   | -8  | -63  | -251 | -444 | -184 |
| Wet Water Years (28%)                       | -8   | -3   | 0    | 1   | 0   | 1   | 1   | 1   | -2   | -57  | -142 | -36  |
| Above Normal Years (14%)                    | -21  | -7   | 0    | 1   | 1   | 2   | 2   | 0   | -8   | -132 | -331 | -99  |
| Below Normal Years (18%)                    | -76  | -36  | -7   | 0   | 2   | 3   | 3   | -1  | -41  | -271 | -567 | -191 |
| Dry Water Years (24%)                       | -146 | -94  | -25  | 0   | 3   | 4   | 3   | -4  | -82  | -382 | -668 | -282 |
| Critical Water Years (16%)                  | -486 | -513 | -108 | -37 | -5  | 1   | -10 | -42 | -215 | -477 | -600 | -365 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-2-8a. Cache Slough at Ryer Island Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 10% Exceedance                              | 543 | 531 | 240 | 193 | 193 | 191 | 188 | 204 | 393 | 795 | 1,138 | 639 |
| 20% Exceedance                              | 417 | 357 | 209 | 190 | 190 | 189 | 186 | 188 | 288 | 608 | 920   | 496 |
| 30% Exceedance                              | 298 | 221 | 192 | 187 | 189 | 186 | 185 | 184 | 240 | 535 | 802   | 433 |
| 40% Exceedance                              | 242 | 201 | 188 | 185 | 187 | 185 | 184 | 183 | 204 | 387 | 656   | 383 |
| 50% Exceedance                              | 211 | 192 | 186 | 184 | 184 | 184 | 183 | 182 | 192 | 338 | 604   | 352 |
| 60% Exceedance                              | 198 | 188 | 184 | 182 | 182 | 182 | 182 | 181 | 186 | 303 | 497   | 279 |
| 70% Exceedance                              | 188 | 185 | 183 | 181 | 181 | 181 | 180 | 180 | 183 | 249 | 346   | 213 |
| 80% Exceedance                              | 184 | 184 | 181 | 180 | 179 | 180 | 180 | 179 | 181 | 204 | 237   | 193 |
| 90% Exceedance                              | 182 | 183 | 179 | 178 | 178 | 178 | 179 | 178 | 180 | 189 | 201   | 184 |
| Full Simulation Period Average <sup>a</sup> | 311 | 294 | 209 | 191 | 186 | 185 | 185 | 190 | 246 | 432 | 627   | 367 |
| Wet Water Years (28%)                       | 188 | 185 | 183 | 179 | 179 | 180 | 180 | 180 | 183 | 237 | 321   | 215 |
| Above Normal Years (14%)                    | 201 | 190 | 185 | 182 | 181 | 181 | 181 | 181 | 190 | 311 | 510   | 278 |
| Below Normal Years (18%)                    | 259 | 222 | 191 | 187 | 187 | 184 | 183 | 184 | 222 | 451 | 747   | 373 |
| Dry Water Years (24%)                       | 331 | 282 | 211 | 188 | 187 | 186 | 185 | 187 | 264 | 563 | 852   | 466 |
| Critical Water Years (16%)                  | 679 | 709 | 302 | 229 | 200 | 194 | 200 | 229 | 405 | 664 | 792   | 555 |

**Table F.2.5-2-8b. Cache Slough at Ryer Island Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 192 | 194 | 194 | 193 | 195 | 194 | 189 | 185 | 185 | 186 | 190 | 188 |
| 20% Exceedance                              | 187 | 191 | 189 | 190 | 193 | 192 | 188 | 183 | 183 | 182 | 186 | 186 |
| 30% Exceedance                              | 185 | 188 | 188 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 188 | 185 | 182 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 183 | 184 | 185 | 185 | 187 | 187 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 180 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 180 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 181 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 187 | 186 | 186 | 186 | 187 | 185 | 182 | 183 | 181 | 182 | 182 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 183 | 183 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 183 | 186 | 184 | 186 | 188 | 188 | 185 | 182 | 182 | 180 | 180 | 181 |
| Dry Water Years (24%)                       | 185 | 187 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 201 | 196 | 193 | 194 | 195 | 190 | 186 | 190 | 187 | 191 | 189 |

**Table F.2.5-2-8c. Cache Slough at Ryer Island Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|
| 10% Exceedance                              | -351 | -337 | -45  | -1  | 2   | 3   | 1   | -19 | -208 | -610 | -948 | -451 |
| 20% Exceedance                              | -230 | -166 | -19  | 0   | 2   | 3   | 2   | -4  | -105 | -426 | -735 | -310 |
| 30% Exceedance                              | -113 | -33  | -4   | 1   | 2   | 4   | 2   | -2  | -58  | -354 | -619 | -249 |
| 40% Exceedance                              | -58  | -15  | -2   | 1   | 2   | 3   | 2   | -1  | -22  | -207 | -475 | -201 |
| 50% Exceedance                              | -29  | -8   | -1   | 1   | 3   | 3   | 2   | 0   | -10  | -158 | -424 | -171 |
| 60% Exceedance                              | -17  | -5   | -1   | 1   | 2   | 3   | 2   | 0   | -4   | -123 | -318 | -100 |
| 70% Exceedance                              | -8   | -3   | 0    | 1   | 1   | 2   | 2   | 0   | -2   | -70  | -166 | -34  |
| 80% Exceedance                              | -4   | -3   | 0    | 1   | 0   | 2   | 2   | 1   | 0    | -25  | -58  | -14  |
| 90% Exceedance                              | -3   | -2   | 1    | 1   | 0   | 1   | 1   | 1   | 1    | -10  | -22  | -6   |
| Full Simulation Period Average <sup>a</sup> | -127 | -107 | -23  | -6  | 0   | 2   | 0   | -8  | -63  | -251 | -444 | -184 |
| Wet Water Years (28%)                       | -8   | -3   | 0    | 1   | 0   | 1   | 1   | 1   | -2   | -57  | -142 | -36  |
| Above Normal Years (14%)                    | -21  | -7   | 0    | 1   | 1   | 2   | 2   | 0   | -8   | -132 | -331 | -99  |
| Below Normal Years (18%)                    | -76  | -36  | -7   | 0   | 2   | 3   | 2   | -2  | -40  | -271 | -567 | -191 |
| Dry Water Years (24%)                       | -146 | -94  | -25  | 0   | 3   | 4   | 2   | -5  | -82  | -382 | -668 | -282 |
| Critical Water Years (16%)                  | -486 | -507 | -106 | -37 | -5  | 1   | -10 | -43 | -216 | -477 | -601 | -366 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-2-9a. Cache Slough at Ryer Island Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 10% Exceedance                              | 543 | 531 | 240 | 193 | 193 | 191 | 188 | 204 | 393 | 795 | 1,138 | 639 |
| 20% Exceedance                              | 417 | 357 | 209 | 190 | 190 | 189 | 186 | 188 | 288 | 608 | 920   | 496 |
| 30% Exceedance                              | 298 | 221 | 192 | 187 | 189 | 186 | 185 | 184 | 240 | 535 | 802   | 433 |
| 40% Exceedance                              | 242 | 201 | 188 | 185 | 187 | 185 | 184 | 183 | 204 | 387 | 656   | 383 |
| 50% Exceedance                              | 211 | 192 | 186 | 184 | 184 | 184 | 183 | 182 | 192 | 338 | 604   | 352 |
| 60% Exceedance                              | 198 | 188 | 184 | 182 | 182 | 182 | 182 | 181 | 186 | 303 | 497   | 279 |
| 70% Exceedance                              | 188 | 185 | 183 | 181 | 181 | 181 | 180 | 180 | 183 | 249 | 346   | 213 |
| 80% Exceedance                              | 184 | 184 | 181 | 180 | 179 | 180 | 180 | 179 | 181 | 204 | 237   | 193 |
| 90% Exceedance                              | 182 | 183 | 179 | 178 | 178 | 178 | 179 | 178 | 180 | 189 | 201   | 184 |
| Full Simulation Period Average <sup>a</sup> | 311 | 294 | 209 | 191 | 186 | 185 | 185 | 190 | 246 | 432 | 627   | 367 |
| Wet Water Years (28%)                       | 188 | 185 | 183 | 179 | 179 | 180 | 180 | 180 | 183 | 237 | 321   | 215 |
| Above Normal Years (14%)                    | 201 | 190 | 185 | 182 | 181 | 181 | 181 | 181 | 190 | 311 | 510   | 278 |
| Below Normal Years (18%)                    | 259 | 222 | 191 | 187 | 187 | 184 | 183 | 184 | 222 | 451 | 747   | 373 |
| Dry Water Years (24%)                       | 331 | 282 | 211 | 188 | 187 | 186 | 185 | 187 | 264 | 563 | 852   | 466 |
| Critical Water Years (16%)                  | 679 | 709 | 302 | 229 | 200 | 194 | 200 | 229 | 405 | 664 | 792   | 555 |

**Table F.2.5-2-9b. Cache Slough at Ryer Island Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 191 | 195 | 192 | 192 | 195 | 195 | 192 | 187 | 194 | 196 | 196 | 189 |
| 20% Exceedance                              | 188 | 191 | 189 | 190 | 192 | 192 | 189 | 184 | 182 | 182 | 187 | 186 |
| 30% Exceedance                              | 185 | 188 | 188 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 188 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 184 | 185 | 185 | 187 | 187 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 180 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 180 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 186 | 186 | 185 | 186 | 187 | 186 | 183 | 184 | 183 | 184 | 183 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 182 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 181 |
| Dry Water Years (24%)                       | 185 | 188 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 185 | 184 |
| Critical Water Years (16%)                  | 192 | 197 | 193 | 189 | 194 | 196 | 195 | 190 | 198 | 200 | 198 | 190 |

**Table F.2.5-2-9c. Cache Slough at Ryer Island Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|
| 10% Exceedance                              | -352 | -336 | -48  | -1  | 2   | 3   | 4   | -17 | -199 | -599 | -942 | -450 |
| 20% Exceedance                              | -229 | -166 | -19  | 0   | 2   | 3   | 3   | -4  | -105 | -426 | -733 | -310 |
| 30% Exceedance                              | -113 | -33  | -4   | 0   | 2   | 4   | 3   | -1  | -58  | -355 | -618 | -249 |
| 40% Exceedance                              | -58  | -14  | -2   | 0   | 2   | 3   | 2   | -1  | -22  | -207 | -475 | -201 |
| 50% Exceedance                              | -29  | -8   | -1   | 1   | 3   | 3   | 3   | 0   | -11  | -158 | -424 | -171 |
| 60% Exceedance                              | -17  | -5   | -1   | 1   | 2   | 3   | 2   | 1   | -4   | -123 | -318 | -99  |
| 70% Exceedance                              | -8   | -3   | 0    | 1   | 1   | 2   | 3   | 1   | -2   | -70  | -166 | -34  |
| 80% Exceedance                              | -4   | -2   | 0    | 1   | 0   | 1   | 2   | 1   | 0    | -25  | -58  | -14  |
| 90% Exceedance                              | -3   | -2   | 1    | 1   | 0   | 1   | 2   | 1   | 1    | -10  | -22  | -6   |
| Full Simulation Period Average <sup>a</sup> | -127 | -108 | -24  | -6  | 0   | 2   | 1   | -7  | -62  | -249 | -443 | -184 |
| Wet Water Years (28%)                       | -8   | -3   | 0    | 1   | 0   | 1   | 1   | 1   | -2   | -57  | -142 | -36  |
| Above Normal Years (14%)                    | -21  | -7   | 0    | 1   | 1   | 2   | 2   | 0   | -9   | -132 | -331 | -99  |
| Below Normal Years (18%)                    | -76  | -36  | -7   | 0   | 2   | 3   | 3   | -2  | -41  | -271 | -567 | -191 |
| Dry Water Years (24%)                       | -146 | -94  | -24  | 0   | 3   | 4   | 2   | -4  | -82  | -382 | -667 | -282 |
| Critical Water Years (16%)                  | -487 | -512 | -109 | -40 | -6  | 2   | -5  | -39 | -207 | -464 | -594 | -364 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-2-10a. Cache Slough at Ryer Island Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|
| 10% Exceedance                              | 543 | 531 | 240 | 193 | 193 | 191 | 188 | 204 | 393 | 795 | 1,138 | 639 |
| 20% Exceedance                              | 417 | 357 | 209 | 190 | 190 | 189 | 186 | 188 | 288 | 608 | 920   | 496 |
| 30% Exceedance                              | 298 | 221 | 192 | 187 | 189 | 186 | 185 | 184 | 240 | 535 | 802   | 433 |
| 40% Exceedance                              | 242 | 201 | 188 | 185 | 187 | 185 | 184 | 183 | 204 | 387 | 656   | 383 |
| 50% Exceedance                              | 211 | 192 | 186 | 184 | 184 | 184 | 183 | 182 | 192 | 338 | 604   | 352 |
| 60% Exceedance                              | 198 | 188 | 184 | 182 | 182 | 182 | 182 | 181 | 186 | 303 | 497   | 279 |
| 70% Exceedance                              | 188 | 185 | 183 | 181 | 181 | 181 | 180 | 180 | 183 | 249 | 346   | 213 |
| 80% Exceedance                              | 184 | 184 | 181 | 180 | 179 | 180 | 180 | 179 | 181 | 204 | 237   | 193 |
| 90% Exceedance                              | 182 | 183 | 179 | 178 | 178 | 178 | 179 | 178 | 180 | 189 | 201   | 184 |
| Full Simulation Period Average <sup>a</sup> | 311 | 294 | 209 | 191 | 186 | 185 | 185 | 190 | 246 | 432 | 627   | 367 |
| Wet Water Years (28%)                       | 188 | 185 | 183 | 179 | 179 | 180 | 180 | 180 | 183 | 237 | 321   | 215 |
| Above Normal Years (14%)                    | 201 | 190 | 185 | 182 | 181 | 181 | 181 | 181 | 190 | 311 | 510   | 278 |
| Below Normal Years (18%)                    | 259 | 222 | 191 | 187 | 187 | 184 | 183 | 184 | 222 | 451 | 747   | 373 |
| Dry Water Years (24%)                       | 331 | 282 | 211 | 188 | 187 | 186 | 185 | 187 | 264 | 563 | 852   | 466 |
| Critical Water Years (16%)                  | 679 | 709 | 302 | 229 | 200 | 194 | 200 | 229 | 405 | 664 | 792   | 555 |

**Table F.2.5-2-10b. Cache Slough at Ryer Island Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 190 | 196 | 193 | 192 | 195 | 195 | 193 | 188 | 192 | 197 | 195 | 189 |
| 20% Exceedance                              | 187 | 191 | 190 | 190 | 192 | 192 | 189 | 184 | 183 | 181 | 186 | 186 |
| 30% Exceedance                              | 185 | 188 | 189 | 188 | 190 | 190 | 187 | 183 | 182 | 180 | 183 | 184 |
| 40% Exceedance                              | 184 | 186 | 186 | 186 | 189 | 189 | 186 | 183 | 182 | 180 | 181 | 182 |
| 50% Exceedance                              | 182 | 185 | 185 | 185 | 187 | 188 | 185 | 182 | 182 | 180 | 180 | 181 |
| 60% Exceedance                              | 181 | 183 | 184 | 183 | 184 | 185 | 184 | 182 | 181 | 179 | 180 | 179 |
| 70% Exceedance                              | 180 | 182 | 183 | 182 | 182 | 183 | 183 | 181 | 181 | 179 | 179 | 179 |
| 80% Exceedance                              | 180 | 181 | 181 | 180 | 180 | 181 | 182 | 180 | 181 | 179 | 179 | 179 |
| 90% Exceedance                              | 179 | 181 | 179 | 178 | 178 | 179 | 180 | 179 | 180 | 179 | 179 | 179 |
| Full Simulation Period Average <sup>a</sup> | 184 | 187 | 186 | 185 | 186 | 187 | 186 | 183 | 184 | 183 | 183 | 183 |
| Wet Water Years (28%)                       | 180 | 182 | 183 | 180 | 180 | 181 | 181 | 180 | 181 | 179 | 179 | 179 |
| Above Normal Years (14%)                    | 180 | 183 | 186 | 184 | 183 | 182 | 183 | 181 | 181 | 179 | 179 | 179 |
| Below Normal Years (18%)                    | 184 | 186 | 184 | 186 | 188 | 188 | 186 | 182 | 182 | 180 | 180 | 182 |
| Dry Water Years (24%)                       | 185 | 187 | 186 | 188 | 190 | 190 | 187 | 183 | 182 | 181 | 184 | 184 |
| Critical Water Years (16%)                  | 193 | 200 | 193 | 191 | 194 | 196 | 195 | 191 | 199 | 200 | 198 | 191 |

**Table F.2.5-2-10c. Cache Slough at Ryer Island Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|-----|-----|-----|-----|-----|------|------|------|------|
| 10% Exceedance                              | -353 | -336 | -46  | -1  | 2   | 4   | 4   | -16 | -201 | -598 | -943 | -450 |
| 20% Exceedance                              | -229 | -166 | -19  | 0   | 2   | 3   | 3   | -4  | -105 | -427 | -734 | -310 |
| 30% Exceedance                              | -113 | -33  | -3   | 1   | 2   | 4   | 3   | -1  | -58  | -355 | -619 | -250 |
| 40% Exceedance                              | -58  | -14  | -2   | 0   | 2   | 3   | 2   | -1  | -22  | -207 | -475 | -201 |
| 50% Exceedance                              | -29  | -7   | -1   | 1   | 3   | 4   | 3   | 0   | -11  | -158 | -424 | -170 |
| 60% Exceedance                              | -17  | -5   | 0    | 1   | 2   | 3   | 2   | 1   | -4   | -123 | -318 | -99  |
| 70% Exceedance                              | -8   | -3   | 0    | 1   | 1   | 2   | 3   | 1   | -2   | -70  | -166 | -34  |
| 80% Exceedance                              | -4   | -3   | 0    | 1   | 0   | 1   | 2   | 1   | 0    | -25  | -58  | -14  |
| 90% Exceedance                              | -3   | -2   | 1    | 1   | 0   | 1   | 1   | 1   | 1    | -10  | -22  | -6   |
| Full Simulation Period Average <sup>a</sup> | -127 | -107 | -23  | -6  | 0   | 2   | 1   | -7  | -62  | -249 | -443 | -184 |
| Wet Water Years (28%)                       | -8   | -3   | 0    | 1   | 0   | 1   | 1   | 1   | -2   | -57  | -142 | -36  |
| Above Normal Years (14%)                    | -21  | -7   | 0    | 1   | 1   | 2   | 2   | 0   | -8   | -132 | -331 | -99  |
| Below Normal Years (18%)                    | -76  | -36  | -7   | 0   | 2   | 3   | 3   | -2  | -41  | -271 | -567 | -191 |
| Dry Water Years (24%)                       | -146 | -94  | -24  | 0   | 3   | 4   | 2   | -4  | -83  | -382 | -668 | -282 |
| Critical Water Years (16%)                  | -486 | -509 | -108 | -39 | -6  | 2   | -4  | -38 | -206 | -464 | -594 | -364 |

<sup>a</sup> Based on the 100-year simulation period.

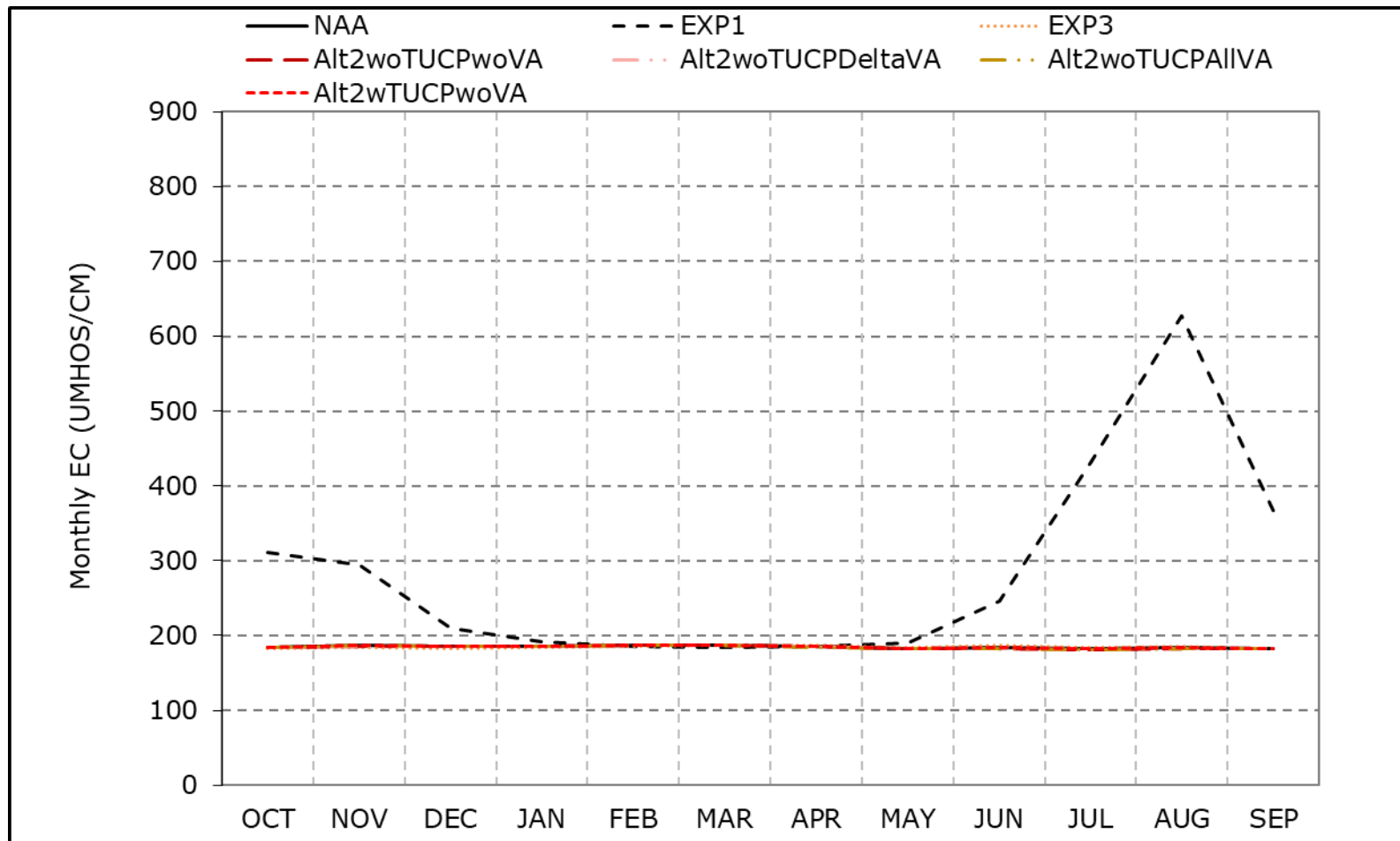
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-2-1. Cache Slough at Ryer Island Salinity, Long-Term Average EC**

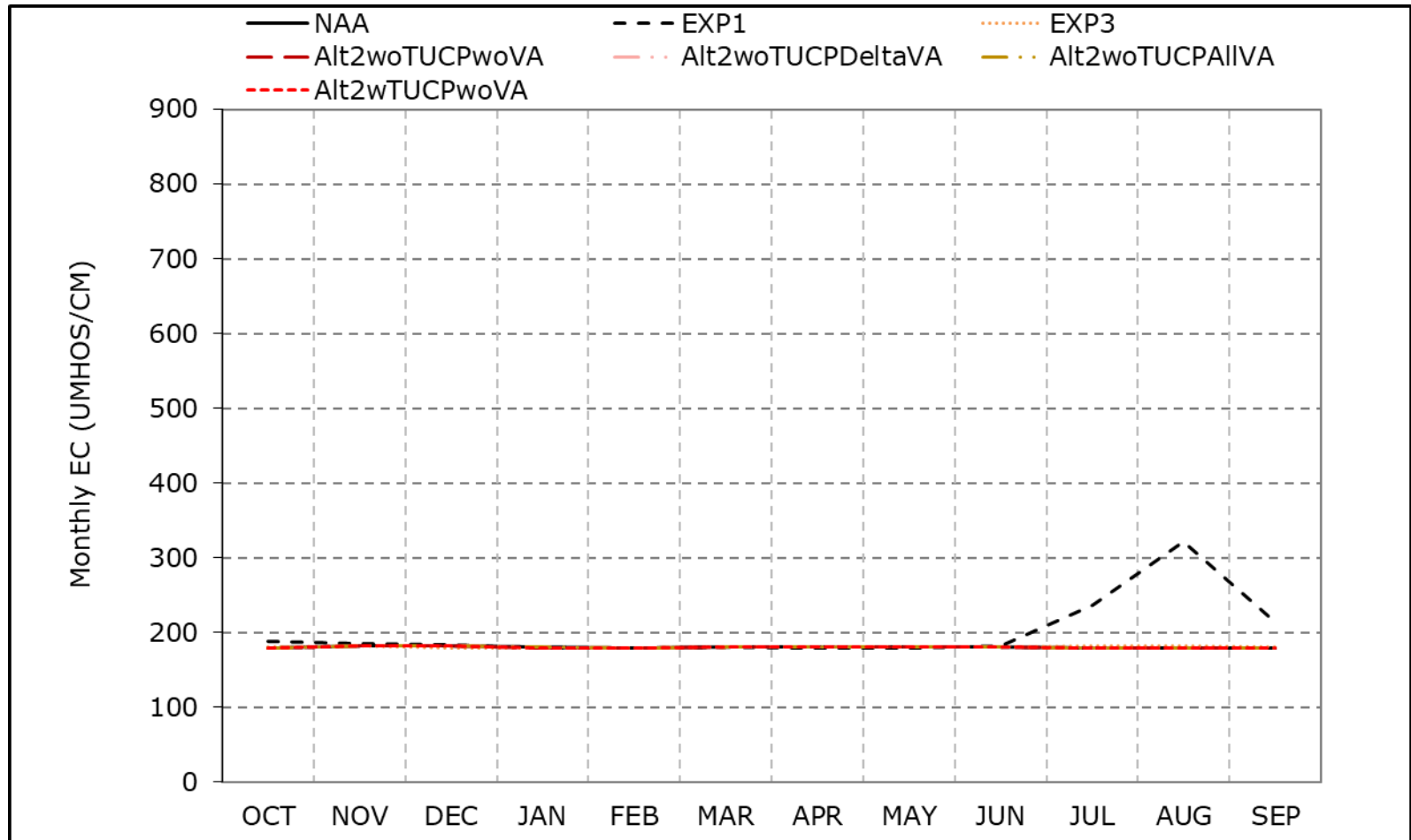


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-2. Cache Slough at Ryer Island Salinity, Wet Year Average EC**

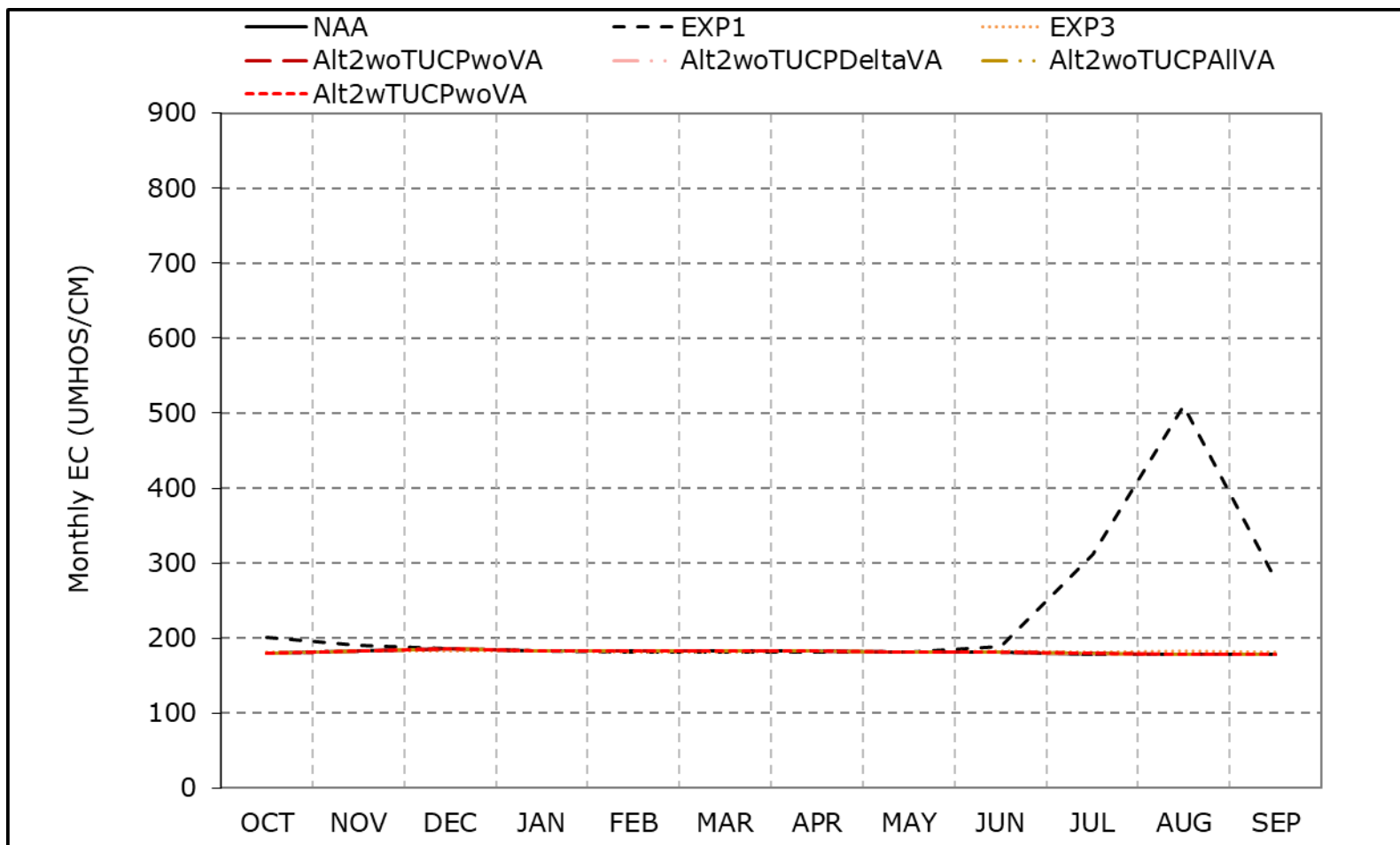


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-3. Cache Slough at Ryer Island Salinity, Above Normal Year Average EC**

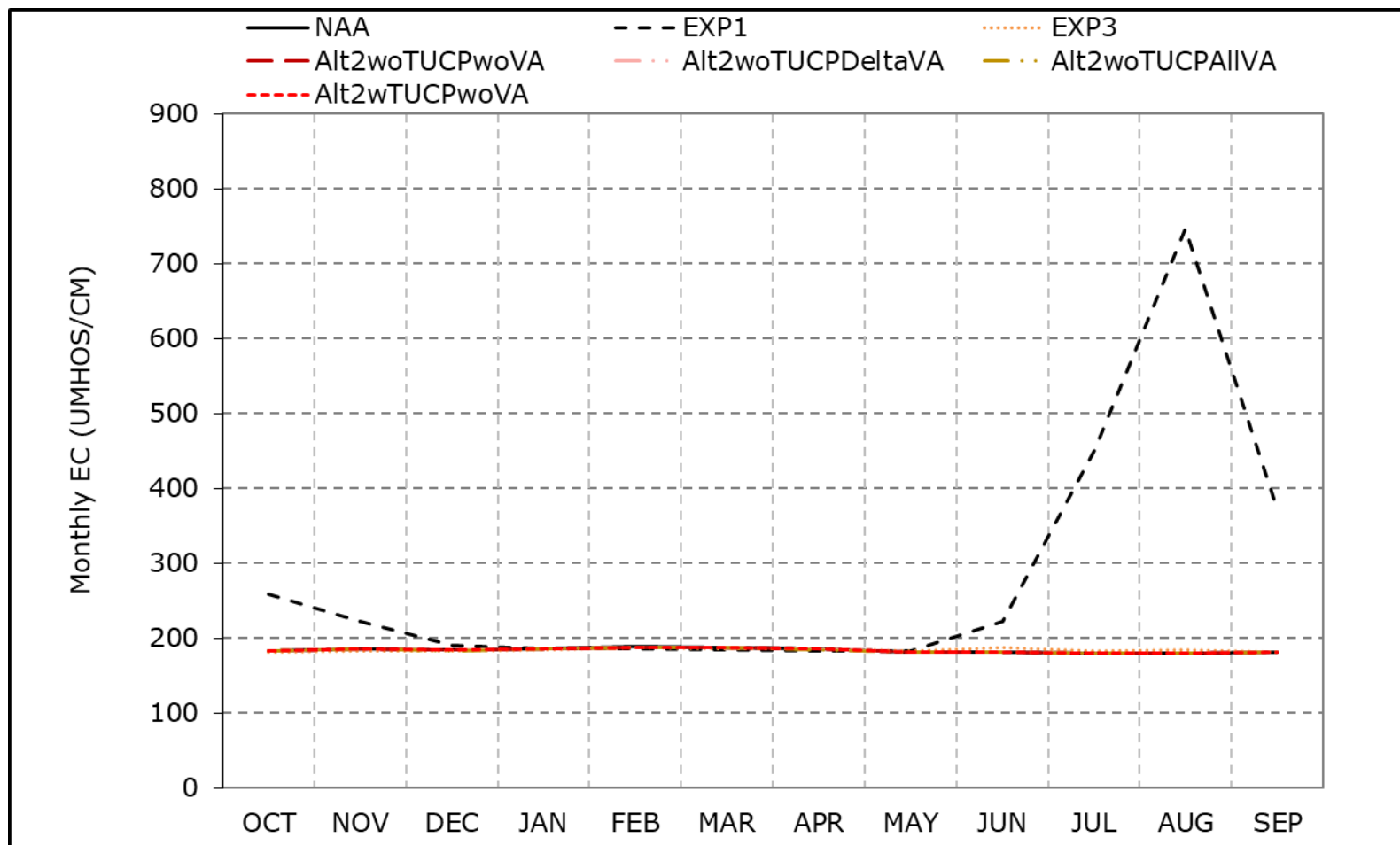


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-4. Cache Slough at Ryer Island Salinity, Below Normal Year Average EC**

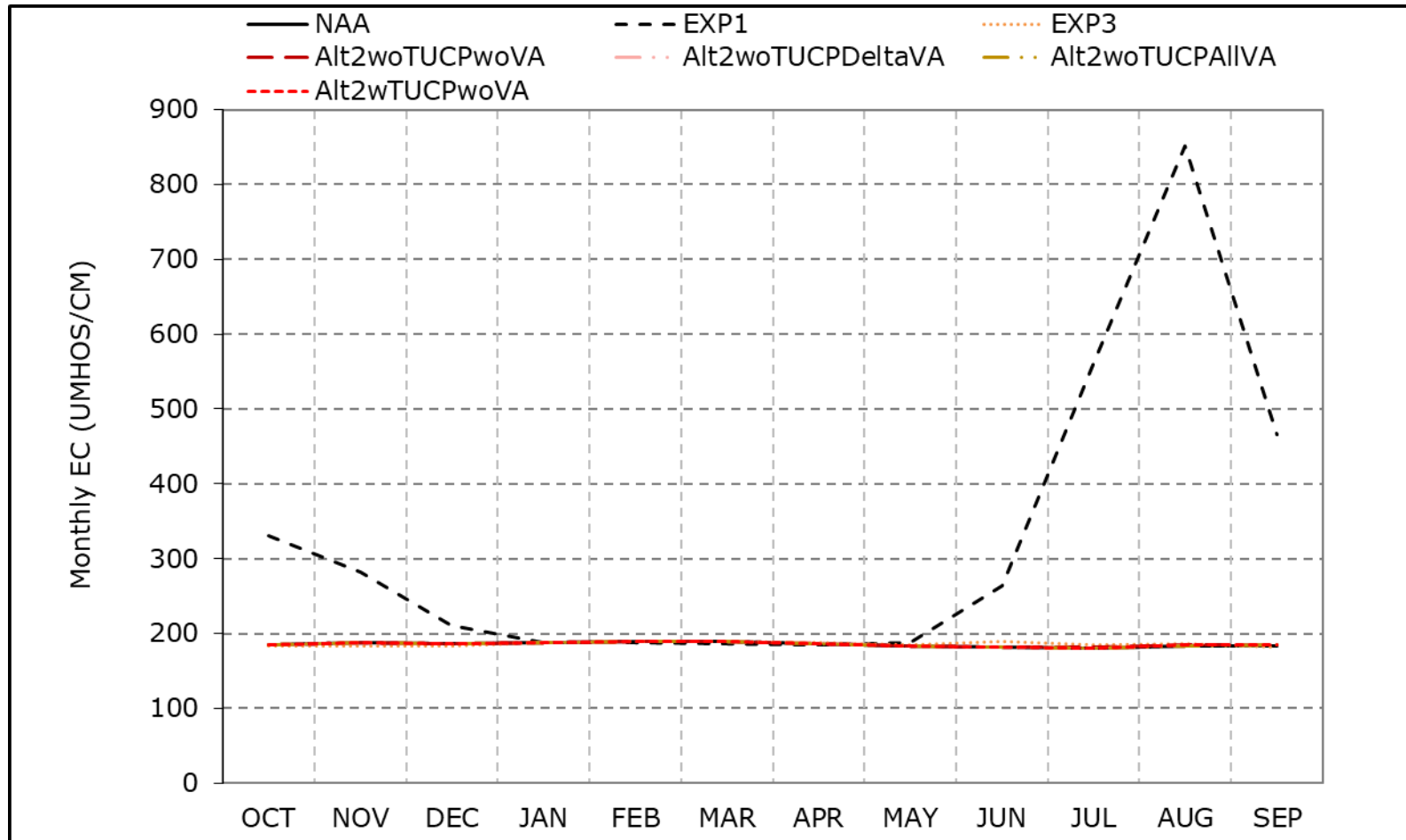


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-5. Cache Slough at Ryer Island Salinity, Dry Year Average EC**

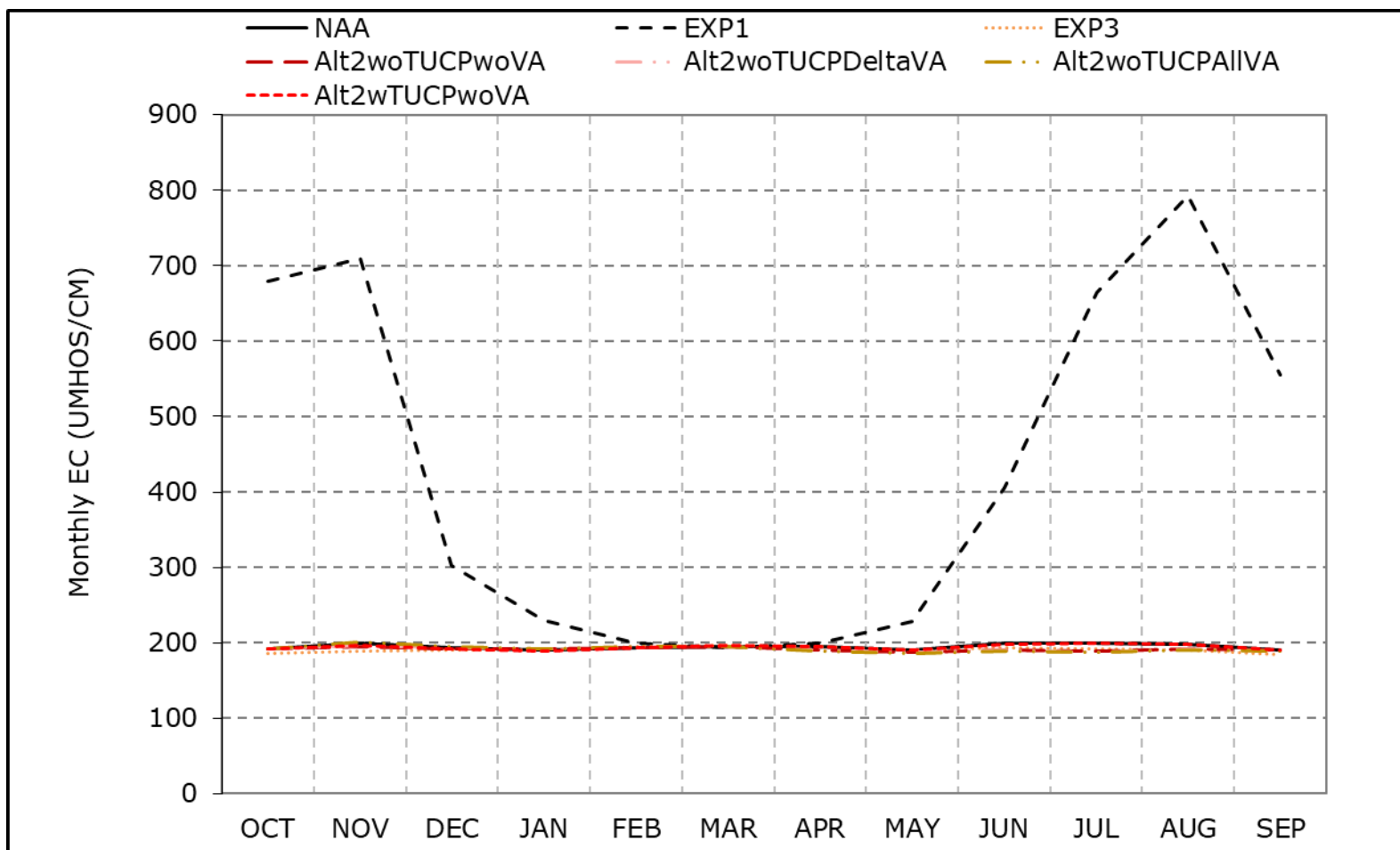


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-6. Cache Slough at Ryer Island Salinity, Critical Year Average EC**

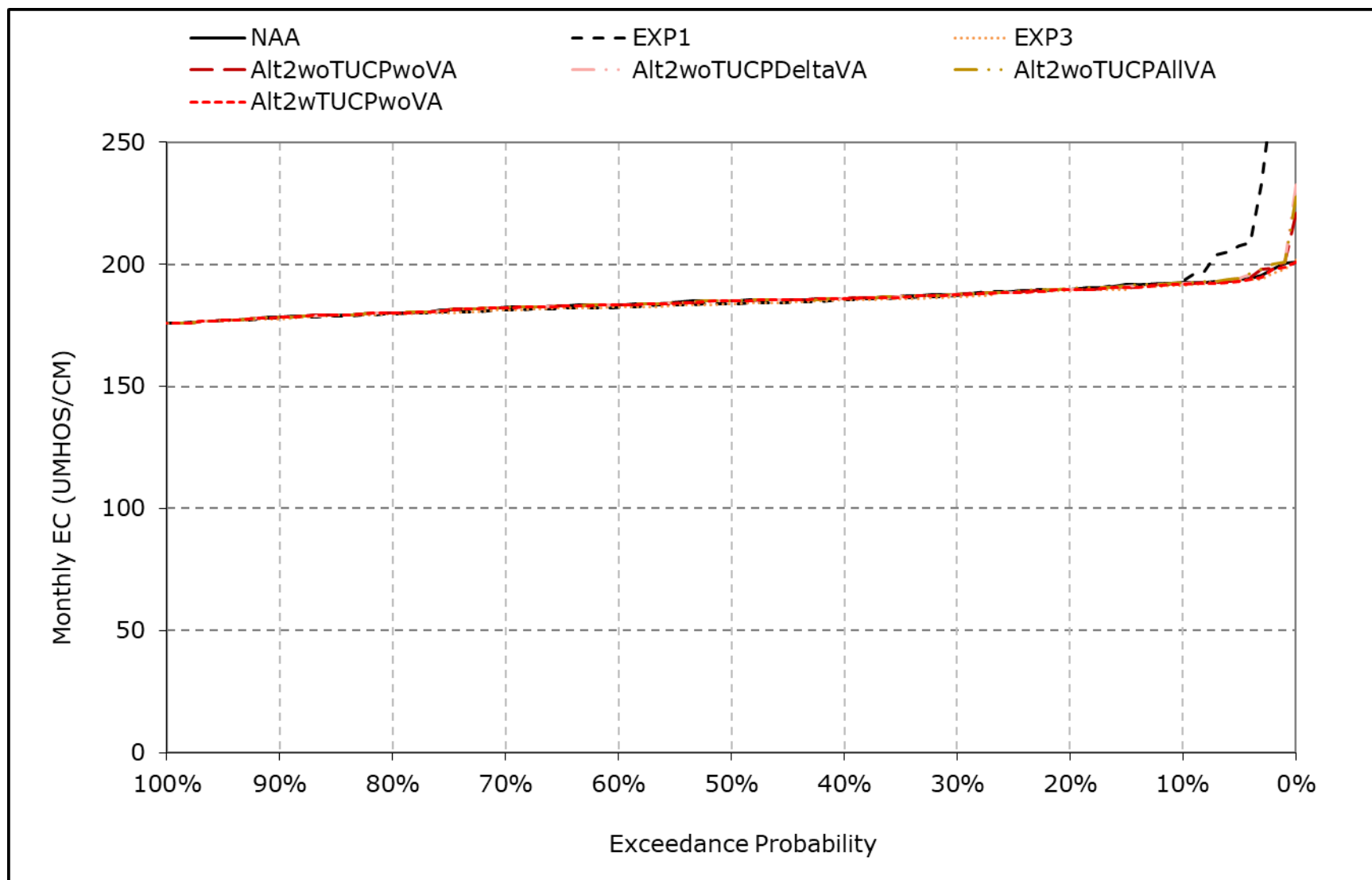


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

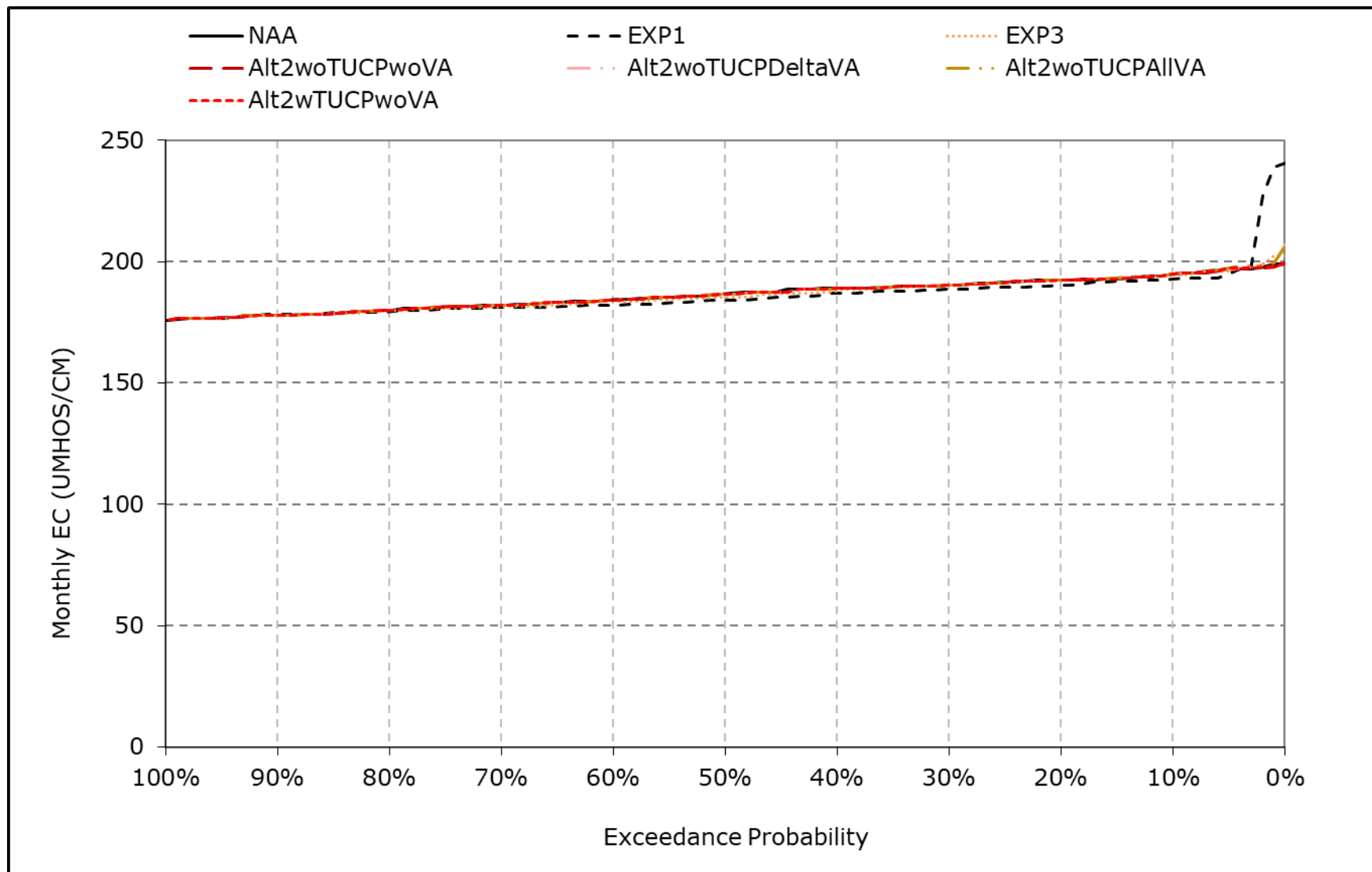
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-7. Cache Slough at Ryer Island Salinity, January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

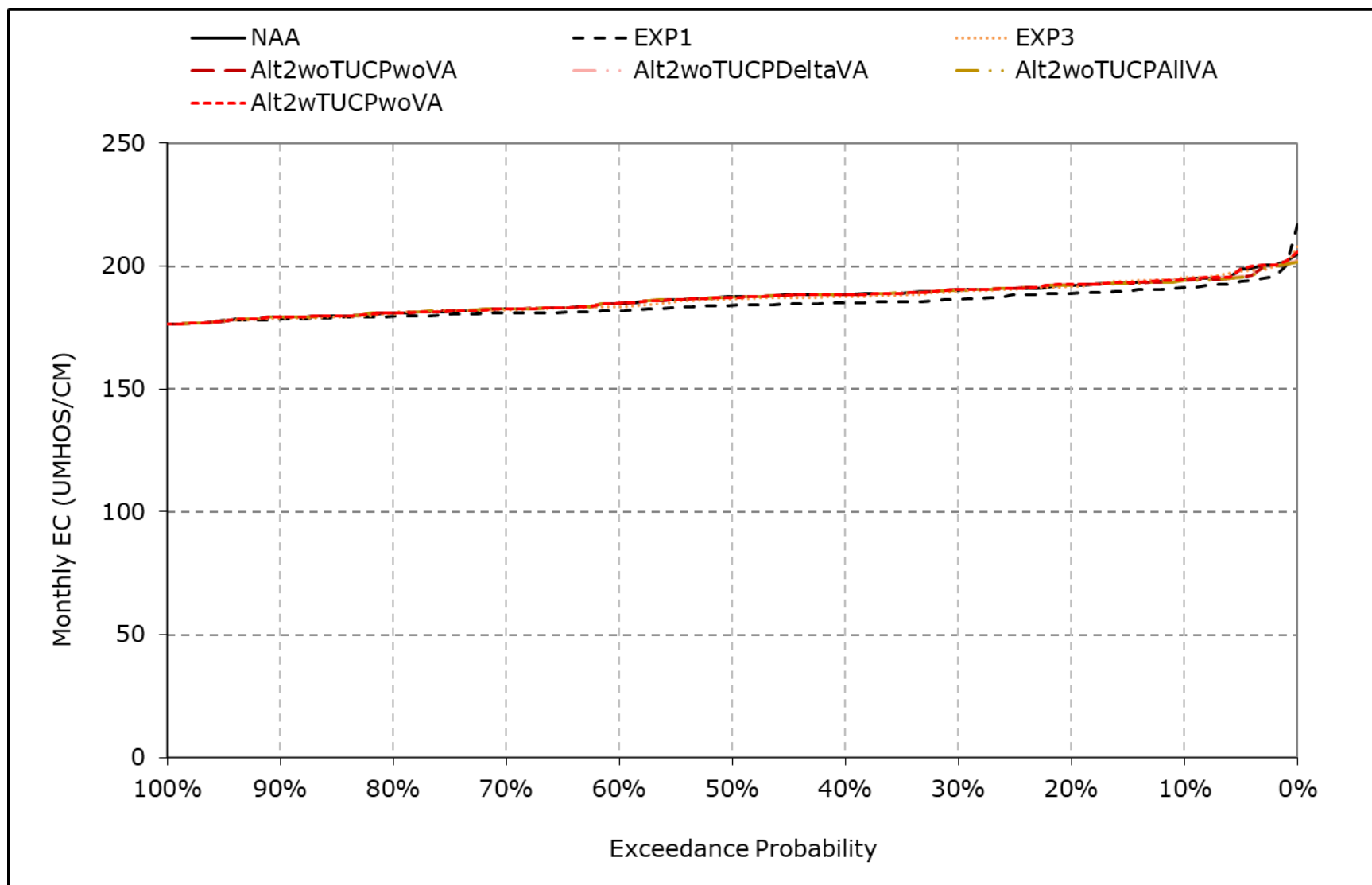
**Figure F.2.5-2-8. Cache Slough at Ryer Island Salinity, February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

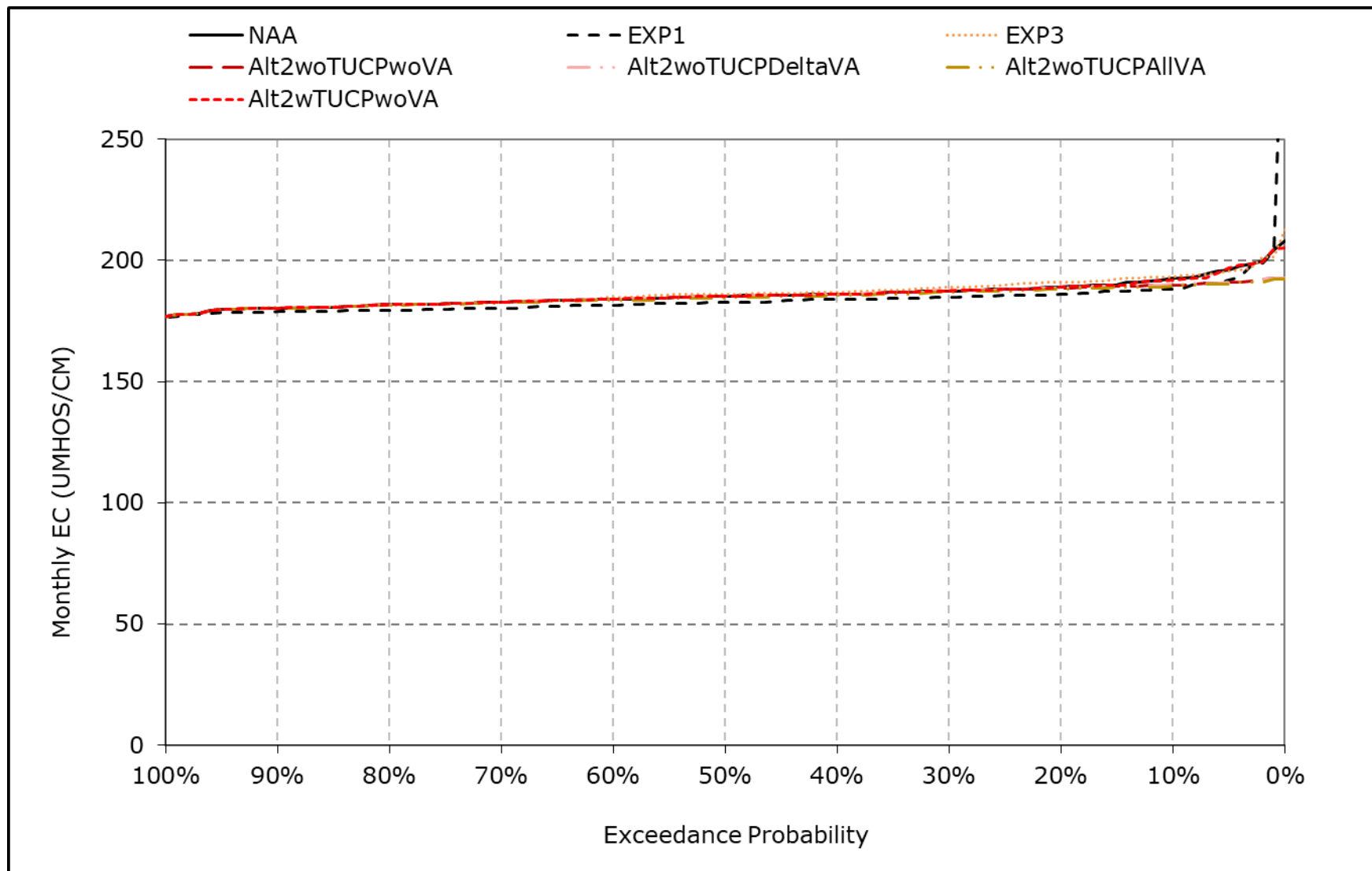


**Figure F.2.5-2-9. Cache Slough at Ryer Island Salinity, March EC**



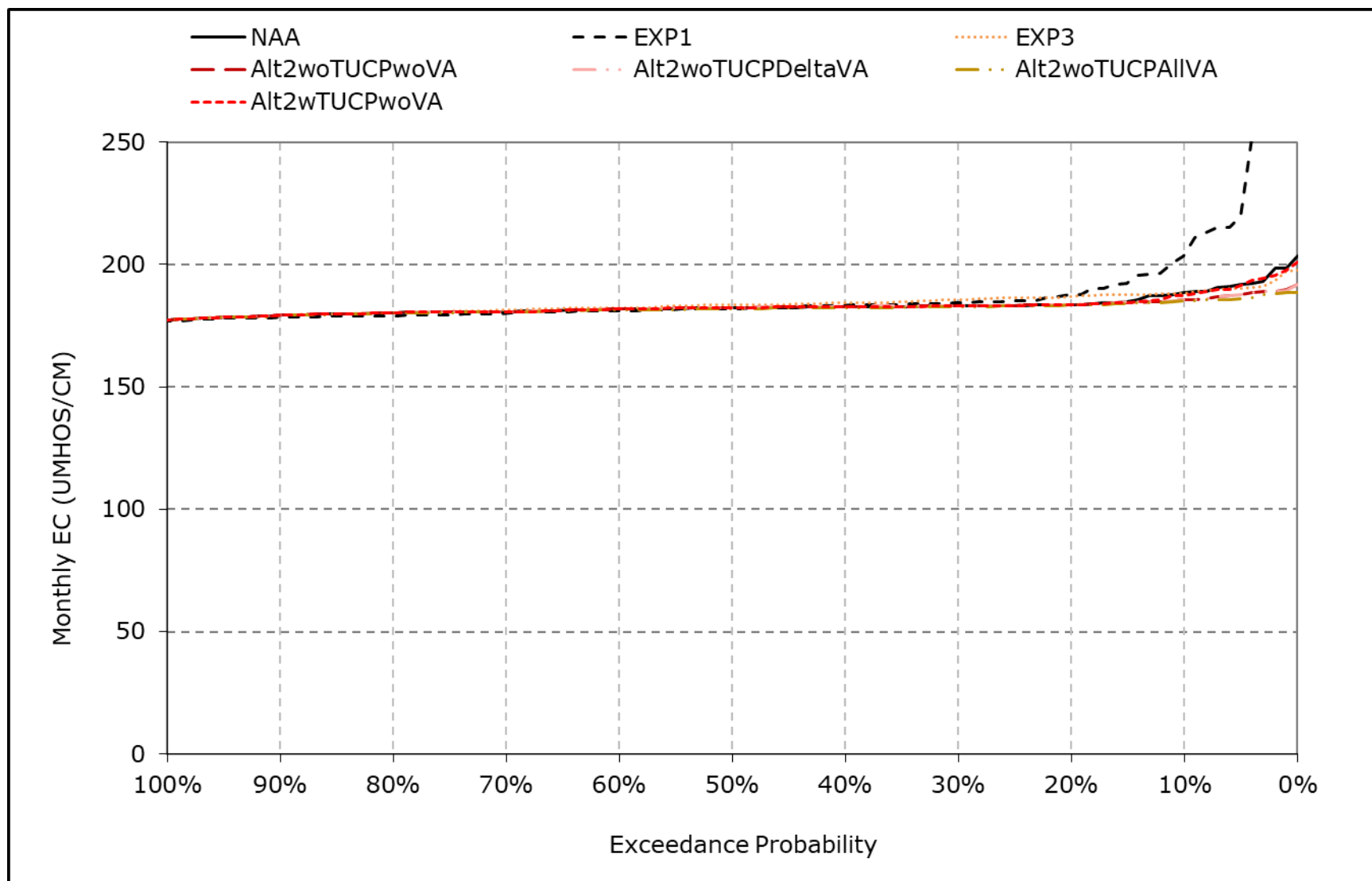
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-10. Cache Slough at Ryer Island Salinity, April EC**



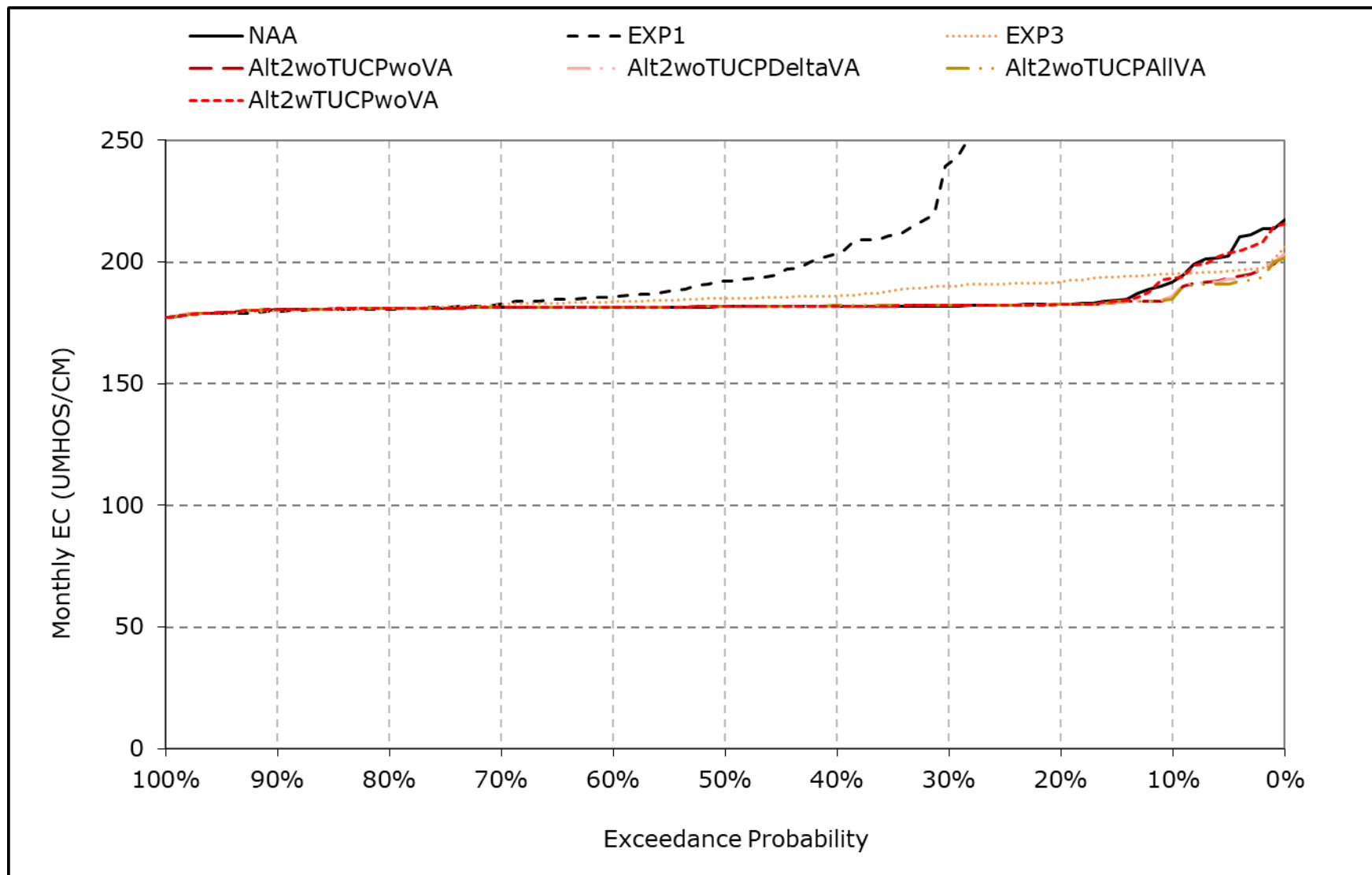
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-11. Cache Slough at Ryer Island Salinity, May EC**



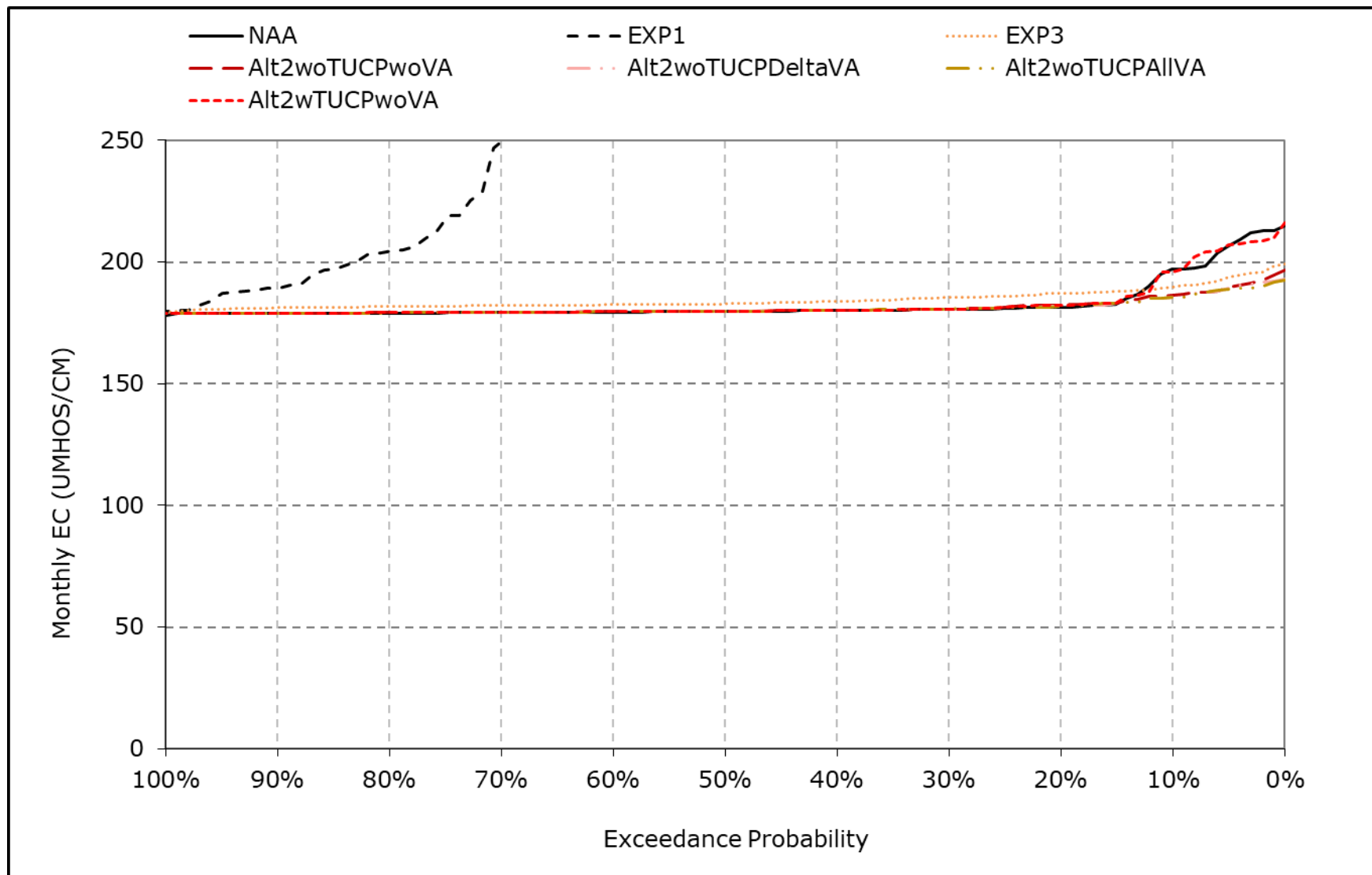
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-12. Cache Slough at Ryer Island Salinity, June EC**



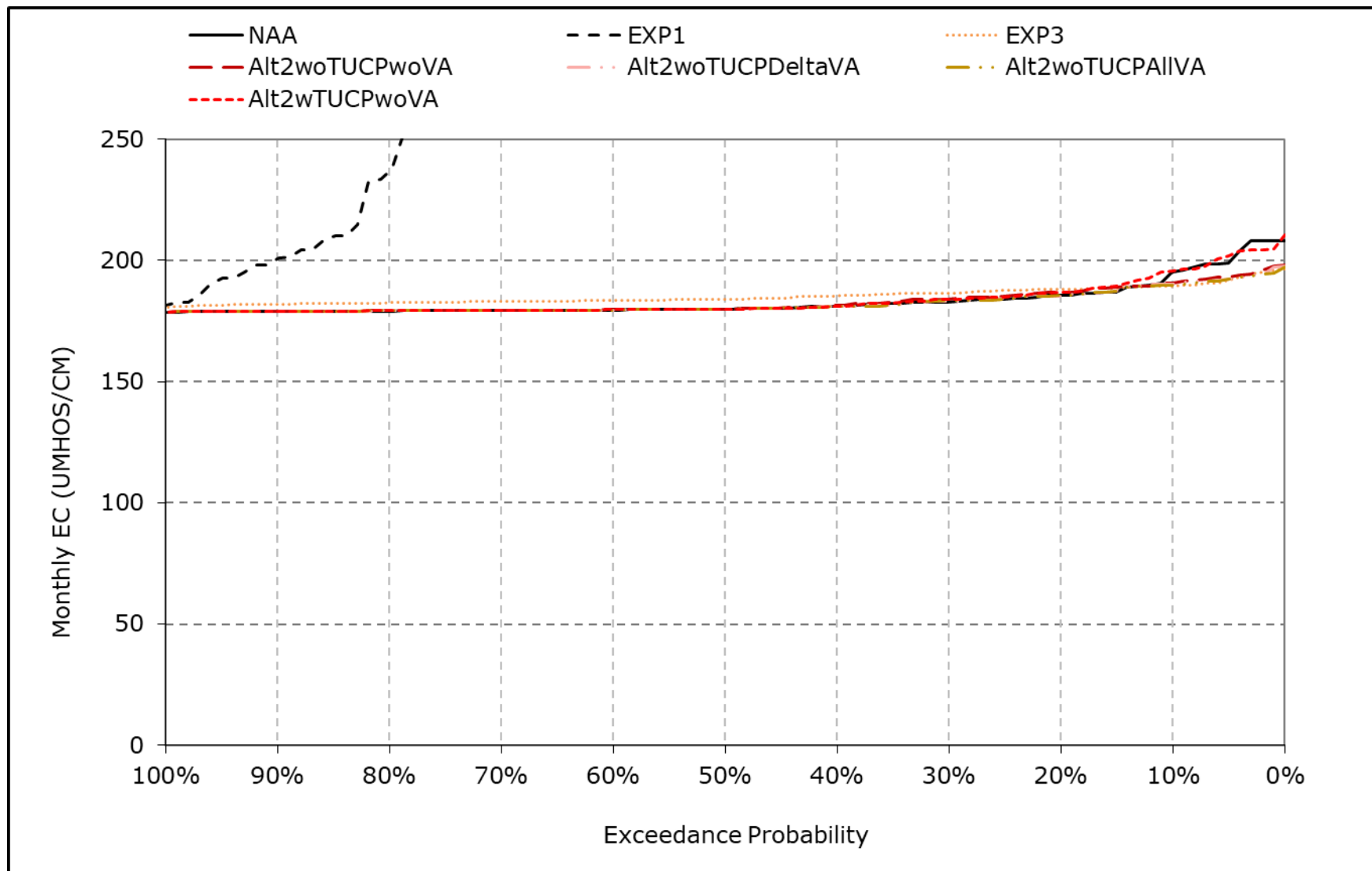
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-13. Cache Slough at Ryer Island Salinity, July EC**



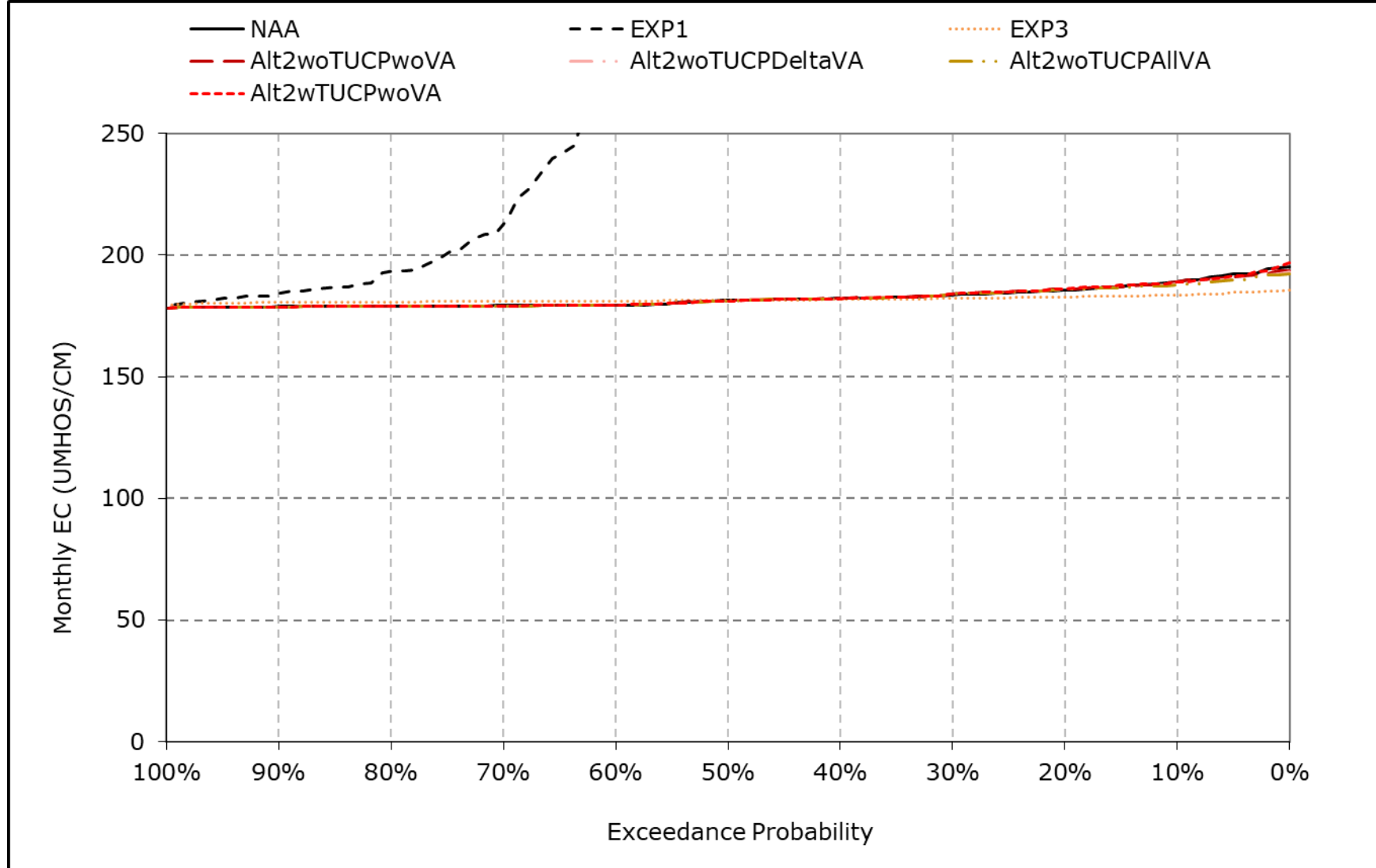
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-14. Cache Slough at Ryer Island Salinity, August EC**



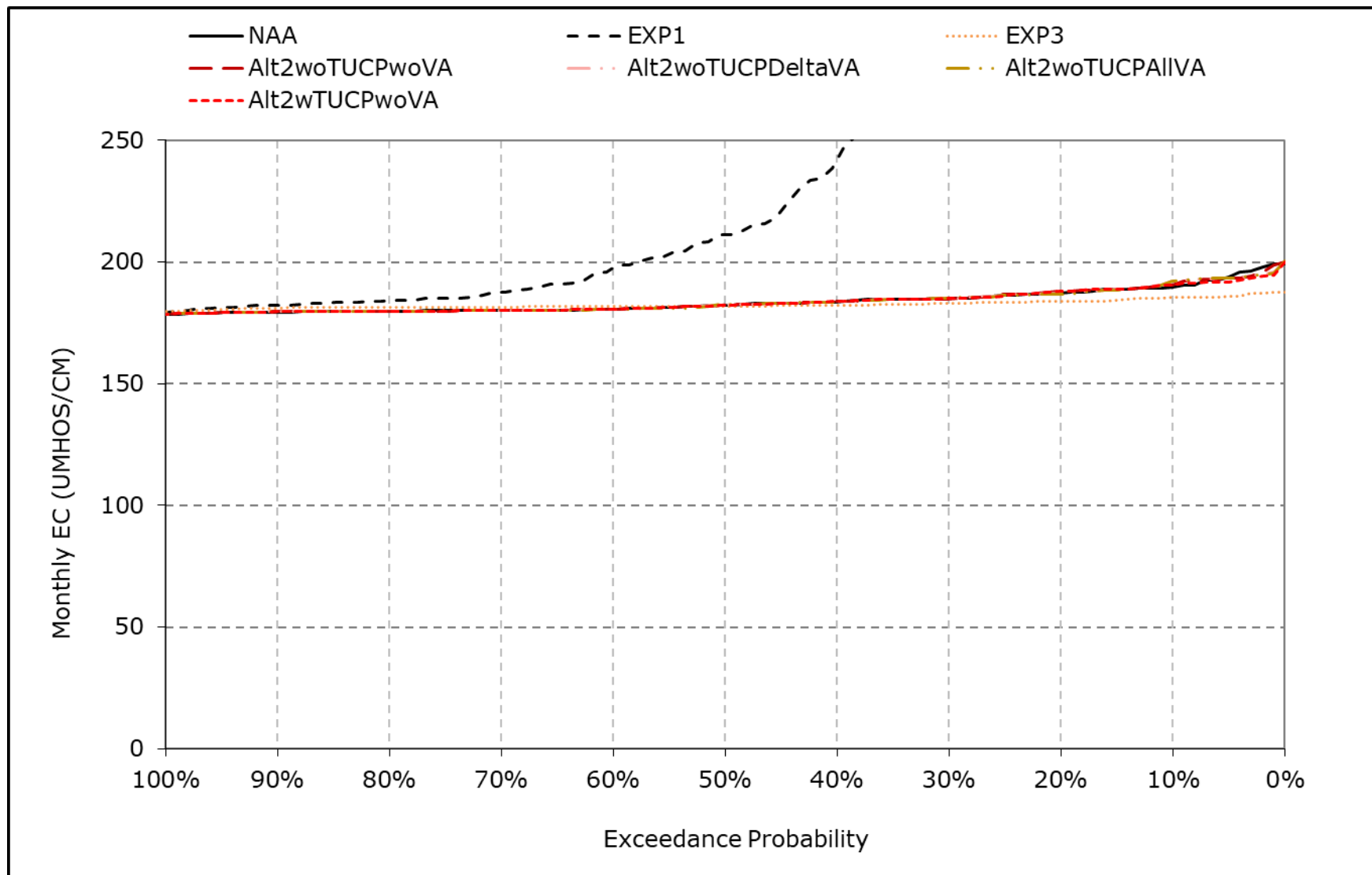
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-15. Cache Slough at Ryer Island Salinity, September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

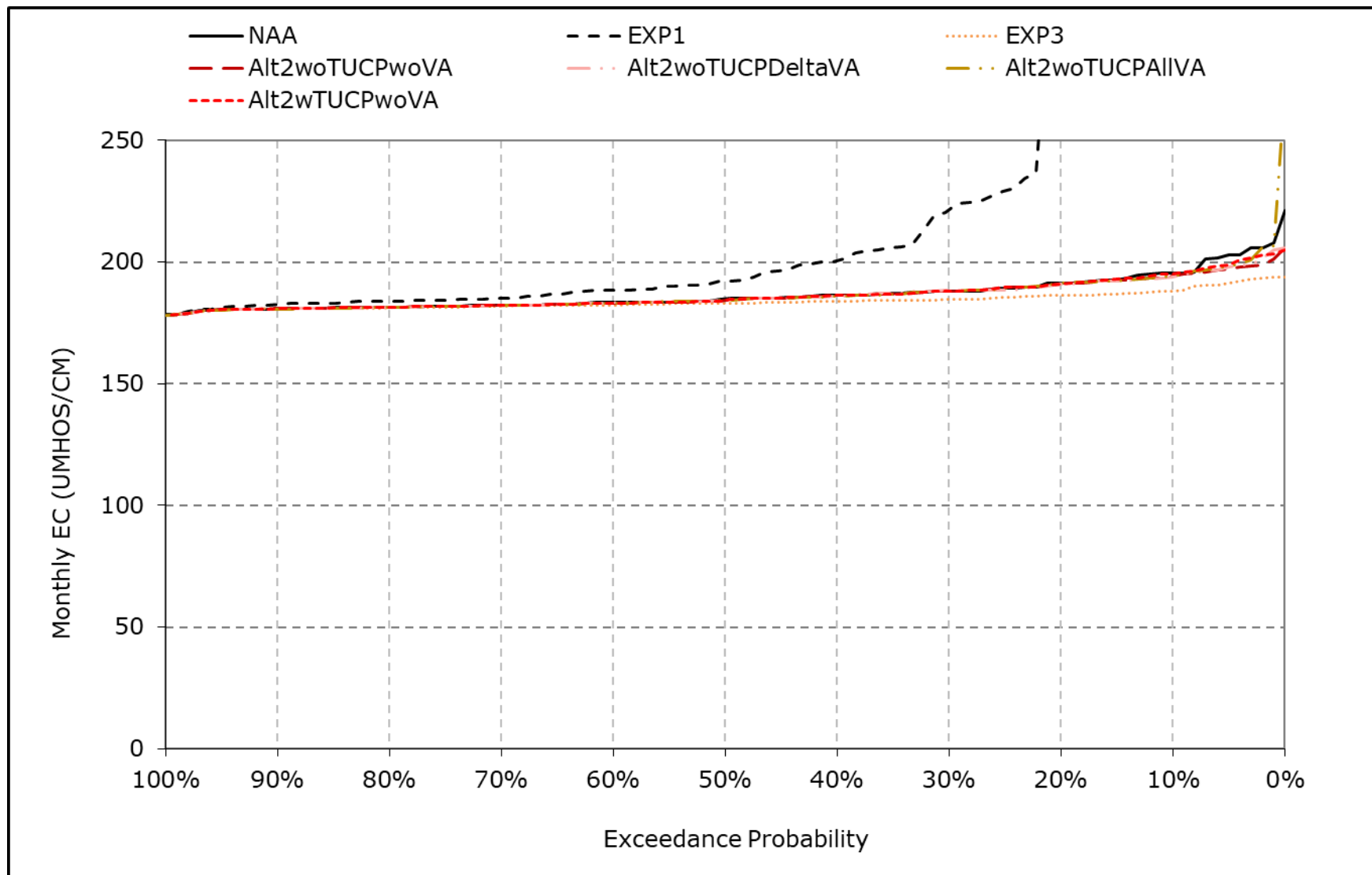
**Figure F.2.5-2-16. Cache Slough at Ryer Island Salinity, October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

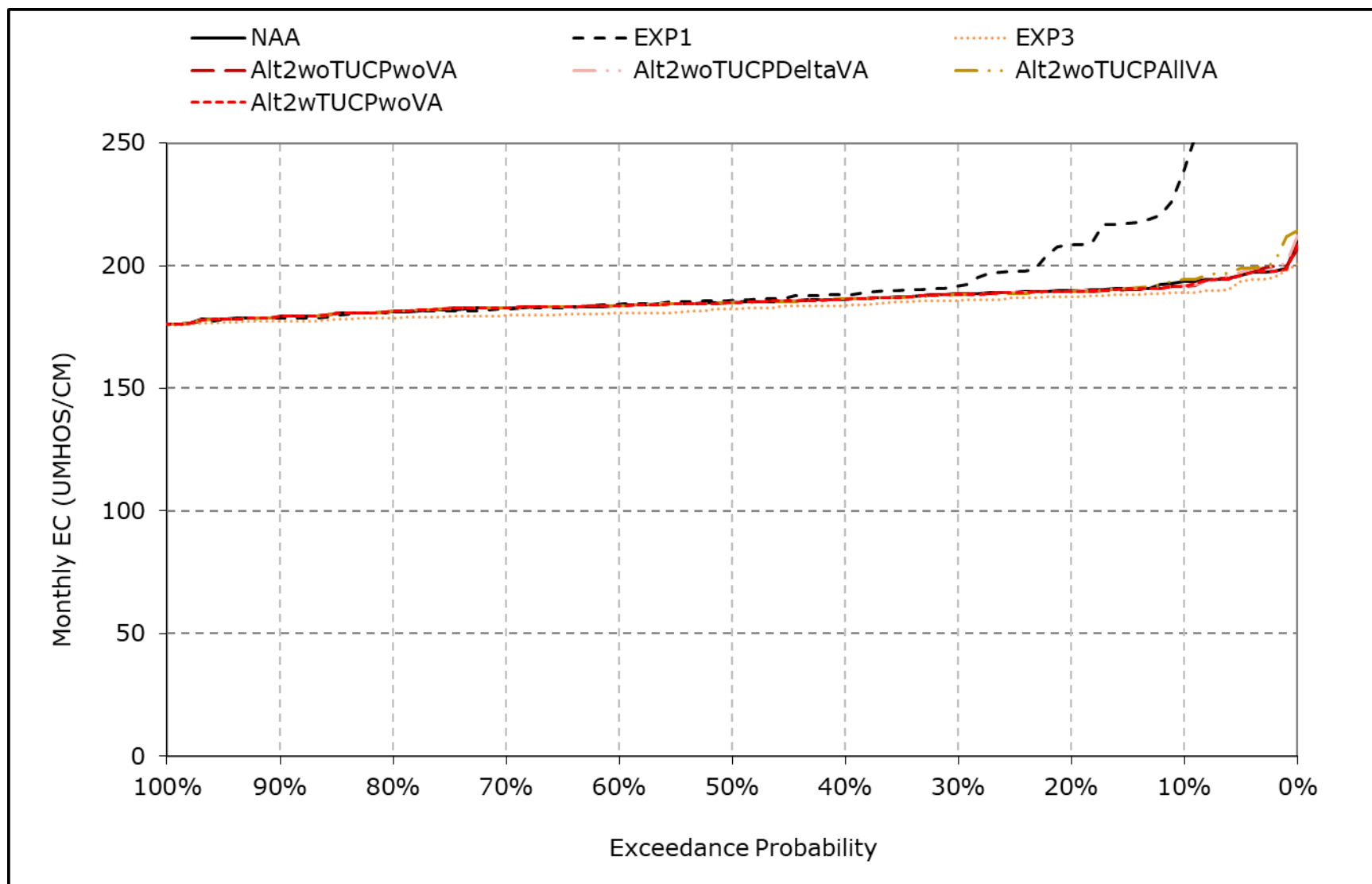


**Figure F.2.5-2-17. Cache Slough at Ryer Island Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-2-18. Cache Slough at Ryer Island Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-3-1a. Sacramento River downstream of Georgiana Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 177 | 176 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-1b. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-1c. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-3-2a. Sacramento River downstream of Georgiana Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 177 | 176 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-2b. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-2c. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-3-3a. Sacramento River downstream of Georgiana Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 177 | 176 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-3b. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPAILVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 180 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-3c. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPAILVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-3-4a. Sacramento River downstream of Georgiana Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 177 | 176 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-4b. Sacramento River downstream of Georgiana Slough Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-4c. Sacramento River downstream of Georgiana Slough Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-3-5a. Sacramento River downstream of Georgiana Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 177 | 176 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-5b. Sacramento River downstream of Georgiana Slough Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 177 | 178 | 179 | 178 | 177 | 176 | 176 | 176 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 176 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 176 | 176 | 176 |
| 50% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 176 | 176 | 176 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 176 | 176 | 176 | 176 | 175 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 176 | 176 | 175 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 176 | 176 | 175 |
| 90% Exceedance                              | 176 | 176 | 175 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 176 | 176 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 176 | 176 | 176 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 176 | 176 | 176 | 176 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 176 | 176 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 176 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 180 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-5c. Sacramento River downstream of Georgiana Slough Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-3-6a. Sacramento River downstream of Georgiana Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 178 | 178 | 178 | 178 | 178 | 178 | 176 | 177 | 180 | 180 | 179 | 177 |
| 20% Exceedance                              | 177 | 178 | 177 | 177 | 178 | 177 | 176 | 176 | 179 | 179 | 179 | 176 |
| 30% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 178 | 179 | 178 | 176 |
| 40% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 50% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 178 | 177 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 177 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 177 | 179 | 178 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| Above Normal Years (14%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| Dry Water Years (24%)                       | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 178 | 178 | 178 | 176 |
| Critical Water Years (16%)                  | 178 | 179 | 178 | 178 | 179 | 178 | 177 | 177 | 180 | 182 | 180 | 177 |

**Table F.2.5-3-6b. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-6c. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -2  | -1  | 0   | 0   | 1   | 1   | 0   | -2  | -4  | -5  | -3  | -1  |
| 20% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | 0   | -3  | -4  | -3  | -1  |
| 30% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| 40% Exceedance                              | -1  | -1  | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -3  | -2  | -1  |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -2  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | -1  | -1  | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -3  | -2  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| Above Normal Years (14%)                    | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| Below Normal Years (18%)                    | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -3  | -2  | 0   |
| Dry Water Years (24%)                       | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| Critical Water Years (16%)                  | -2  | -2  | 0   | 0   | 0   | 1   | -1  | -1  | -4  | -6  | -4  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-3-7a. Sacramento River downstream of Georgiana Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 178 | 178 | 178 | 178 | 178 | 178 | 176 | 177 | 180 | 180 | 179 | 177 |
| 20% Exceedance                              | 177 | 178 | 177 | 177 | 178 | 177 | 176 | 176 | 179 | 179 | 179 | 176 |
| 30% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 178 | 179 | 178 | 176 |
| 40% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 50% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 178 | 177 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 177 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 177 | 179 | 178 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| Above Normal Years (14%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| Dry Water Years (24%)                       | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 178 | 178 | 178 | 176 |
| Critical Water Years (16%)                  | 178 | 179 | 178 | 178 | 179 | 178 | 177 | 177 | 180 | 182 | 180 | 177 |

**Table F.2.5-3-7b. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 178 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-7c. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -2  | -1  | 0   | 0   | 1   | 1   | 0   | -2  | -4  | -5  | -3  | -1  |
| 20% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | 0   | -3  | -4  | -3  | -1  |
| 30% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| 40% Exceedance                              | -1  | -1  | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -3  | -3  | -1  |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -2  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | -1  | -1  | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -3  | -2  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| Above Normal Years (14%)                    | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| Below Normal Years (18%)                    | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -3  | -2  | 0   |
| Dry Water Years (24%)                       | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| Critical Water Years (16%)                  | -2  | -2  | 1   | 0   | 0   | 1   | -1  | -1  | -4  | -6  | -4  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-3-8a. Sacramento River downstream of Georgiana Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 178 | 178 | 178 | 178 | 178 | 178 | 176 | 177 | 180 | 180 | 179 | 177 |
| 20% Exceedance                              | 177 | 178 | 177 | 177 | 178 | 177 | 176 | 176 | 179 | 179 | 179 | 176 |
| 30% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 178 | 179 | 178 | 176 |
| 40% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 50% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 178 | 177 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 177 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 177 | 179 | 178 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| Above Normal Years (14%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| Dry Water Years (24%)                       | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 178 | 178 | 178 | 176 |
| Critical Water Years (16%)                  | 178 | 179 | 178 | 178 | 179 | 178 | 177 | 177 | 180 | 182 | 180 | 177 |

**Table F.2.5-3-8b. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPAILVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 180 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 177 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-8c. Sacramento River downstream of Georgiana Slough Salinity, Alt2woTUCPAILVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -2  | -1  | 0   | 0   | 1   | 1   | 0   | -2  | -4  | -5  | -3  | -1  |
| 20% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | -1  | -3  | -4  | -3  | -1  |
| 30% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| 40% Exceedance                              | -1  | -1  | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -3  | -3  | -1  |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -2  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | -1  | -1  | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -3  | -2  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| Above Normal Years (14%)                    | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| Below Normal Years (18%)                    | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -3  | -2  | 0   |
| Dry Water Years (24%)                       | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| Critical Water Years (16%)                  | -2  | -2  | 1   | 0   | 0   | 1   | -1  | -1  | -4  | -6  | -4  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-3-9a. Sacramento River downstream of Georgiana Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 178 | 178 | 178 | 178 | 178 | 178 | 176 | 177 | 180 | 180 | 179 | 177 |
| 20% Exceedance                              | 177 | 178 | 177 | 177 | 178 | 177 | 176 | 176 | 179 | 179 | 179 | 176 |
| 30% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 178 | 179 | 178 | 176 |
| 40% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 50% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 178 | 177 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 177 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 177 | 179 | 178 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| Above Normal Years (14%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| Dry Water Years (24%)                       | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 178 | 178 | 178 | 176 |
| Critical Water Years (16%)                  | 178 | 179 | 178 | 178 | 179 | 178 | 177 | 177 | 180 | 182 | 180 | 177 |

**Table F.2.5-3-9b. Sacramento River downstream of Georgiana Slough Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-9c. Sacramento River downstream of Georgiana Slough Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -2  | -1  | 0   | 0   | 1   | 1   | 1   | -1  | -4  | -5  | -3  | -1  |
| 20% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | 0   | -3  | -4  | -3  | -1  |
| 30% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| 40% Exceedance                              | -1  | -1  | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -3  | -3  | -1  |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -2  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | -1  | -1  | 0   | 0   | 0   | 1   | 0   | 0   | -2  | -3  | -2  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| Above Normal Years (14%)                    | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| Below Normal Years (18%)                    | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -3  | -2  | 0   |
| Dry Water Years (24%)                       | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| Critical Water Years (16%)                  | -2  | -3  | 0   | 0   | 1   | 1   | 0   | -1  | -4  | -6  | -4  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-3-10a. Sacramento River downstream of Georgiana Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 178 | 178 | 178 | 178 | 178 | 178 | 176 | 177 | 180 | 180 | 179 | 177 |
| 20% Exceedance                              | 177 | 178 | 177 | 177 | 178 | 177 | 176 | 176 | 179 | 179 | 179 | 176 |
| 30% Exceedance                              | 177 | 177 | 177 | 177 | 178 | 177 | 176 | 176 | 178 | 179 | 178 | 176 |
| 40% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 50% Exceedance                              | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| 60% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 176 | 178 | 177 | 176 |
| 70% Exceedance                              | 176 | 176 | 176 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| 80% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| 90% Exceedance                              | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 177 | 176 | 175 |
| Full Simulation Period Average <sup>a</sup> | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 177 | 179 | 178 | 176 |
| Wet Water Years (28%)                       | 176 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 176 | 177 | 177 | 176 |
| Above Normal Years (14%)                    | 176 | 177 | 177 | 176 | 177 | 176 | 175 | 175 | 176 | 178 | 177 | 176 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 177 | 178 | 178 | 176 |
| Dry Water Years (24%)                       | 177 | 177 | 177 | 177 | 177 | 177 | 176 | 176 | 178 | 178 | 178 | 176 |
| Critical Water Years (16%)                  | 178 | 179 | 178 | 178 | 179 | 178 | 177 | 177 | 180 | 182 | 180 | 177 |

**Table F.2.5-3-10b. Sacramento River downstream of Georgiana Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 176 | 178 | 178 | 178 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |
| 20% Exceedance                              | 176 | 177 | 178 | 178 | 179 | 178 | 176 | 176 | 176 | 175 | 176 | 176 |
| 30% Exceedance                              | 176 | 177 | 177 | 178 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| 40% Exceedance                              | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 176 |
| 50% Exceedance                              | 176 | 176 | 177 | 177 | 177 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| 60% Exceedance                              | 176 | 176 | 177 | 176 | 177 | 177 | 176 | 175 | 176 | 175 | 175 | 175 |
| 70% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 80% Exceedance                              | 175 | 176 | 176 | 176 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| 90% Exceedance                              | 175 | 176 | 176 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 | 175 |
| Full Simulation Period Average <sup>a</sup> | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 175 | 175 |
| Wet Water Years (28%)                       | 175 | 176 | 176 | 177 | 176 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Above Normal Years (14%)                    | 176 | 176 | 177 | 177 | 177 | 176 | 176 | 175 | 175 | 175 | 175 | 175 |
| Below Normal Years (18%)                    | 176 | 177 | 177 | 177 | 178 | 177 | 176 | 175 | 176 | 175 | 175 | 176 |
| Dry Water Years (24%)                       | 176 | 176 | 177 | 177 | 178 | 177 | 176 | 176 | 176 | 175 | 176 | 176 |
| Critical Water Years (16%)                  | 176 | 177 | 178 | 177 | 179 | 179 | 177 | 176 | 176 | 176 | 176 | 176 |

**Table F.2.5-3-10c. Sacramento River downstream of Georgiana Slough Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -2  | -1  | 0   | 0   | 1   | 1   | 1   | -1  | -4  | -5  | -3  | -1  |
| 20% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 1   | 0   | -3  | -4  | -3  | -1  |
| 30% Exceedance                              | -1  | -1  | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| 40% Exceedance                              | -1  | -1  | 0   | 0   | 0   | 1   | 0   | 0   | -2  | -3  | -2  | -1  |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| 60% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -2  | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -1  | 0   |
| Full Simulation Period Average <sup>a</sup> | -1  | -1  | 0   | 0   | 0   | 1   | 0   | 0   | -2  | -3  | -2  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -2  | -2  | 0   |
| Above Normal Years (14%)                    | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -3  | -2  | 0   |
| Below Normal Years (18%)                    | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | -3  | -2  | 0   |
| Dry Water Years (24%)                       | -1  | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -2  | -3  | -3  | -1  |
| Critical Water Years (16%)                  | -2  | -2  | 0   | 0   | 0   | 1   | 0   | -1  | -4  | -6  | -4  | -1  |

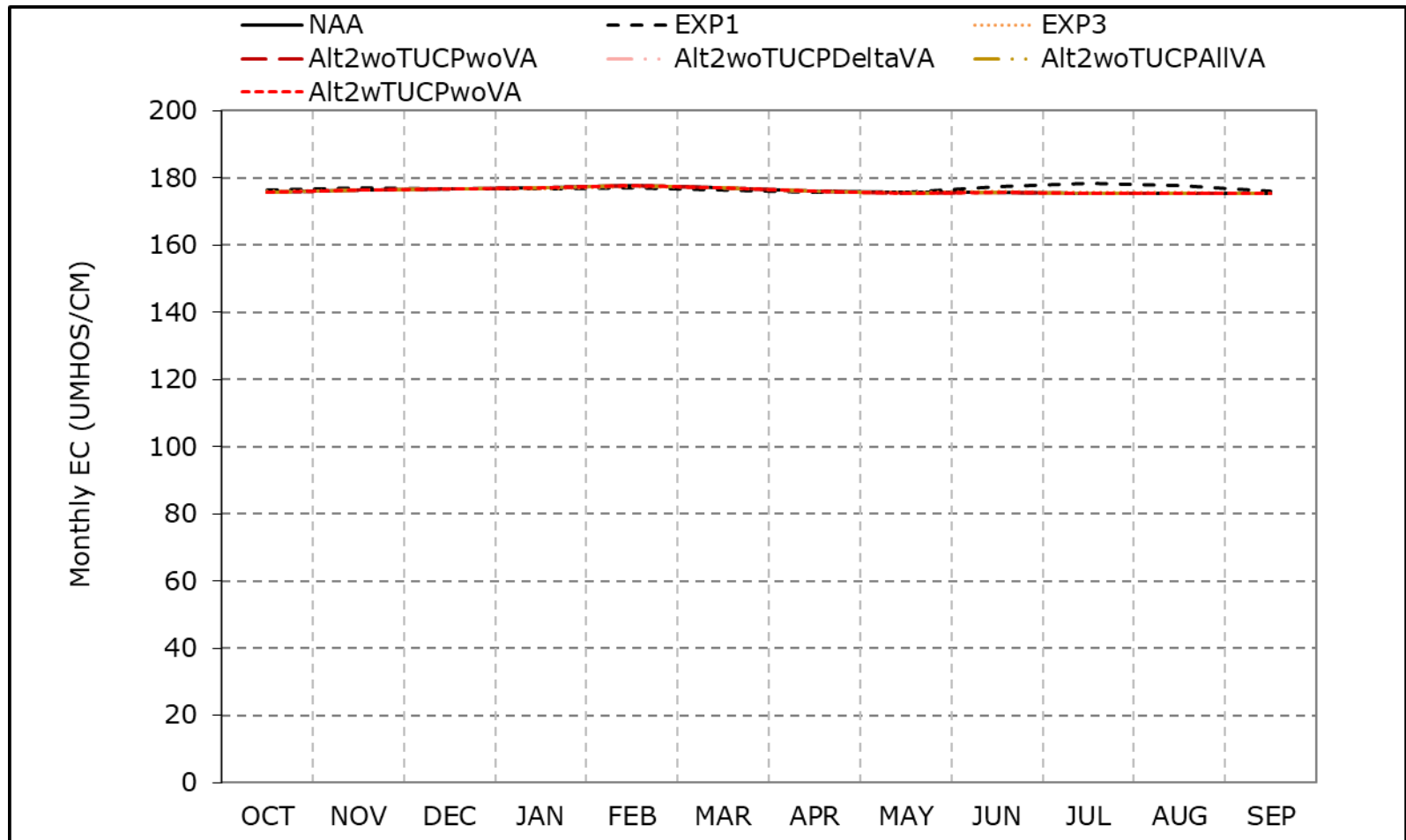
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-3-1. Sacramento River downstream of Georgiana Slough Salinity, Long-Term Average EC**

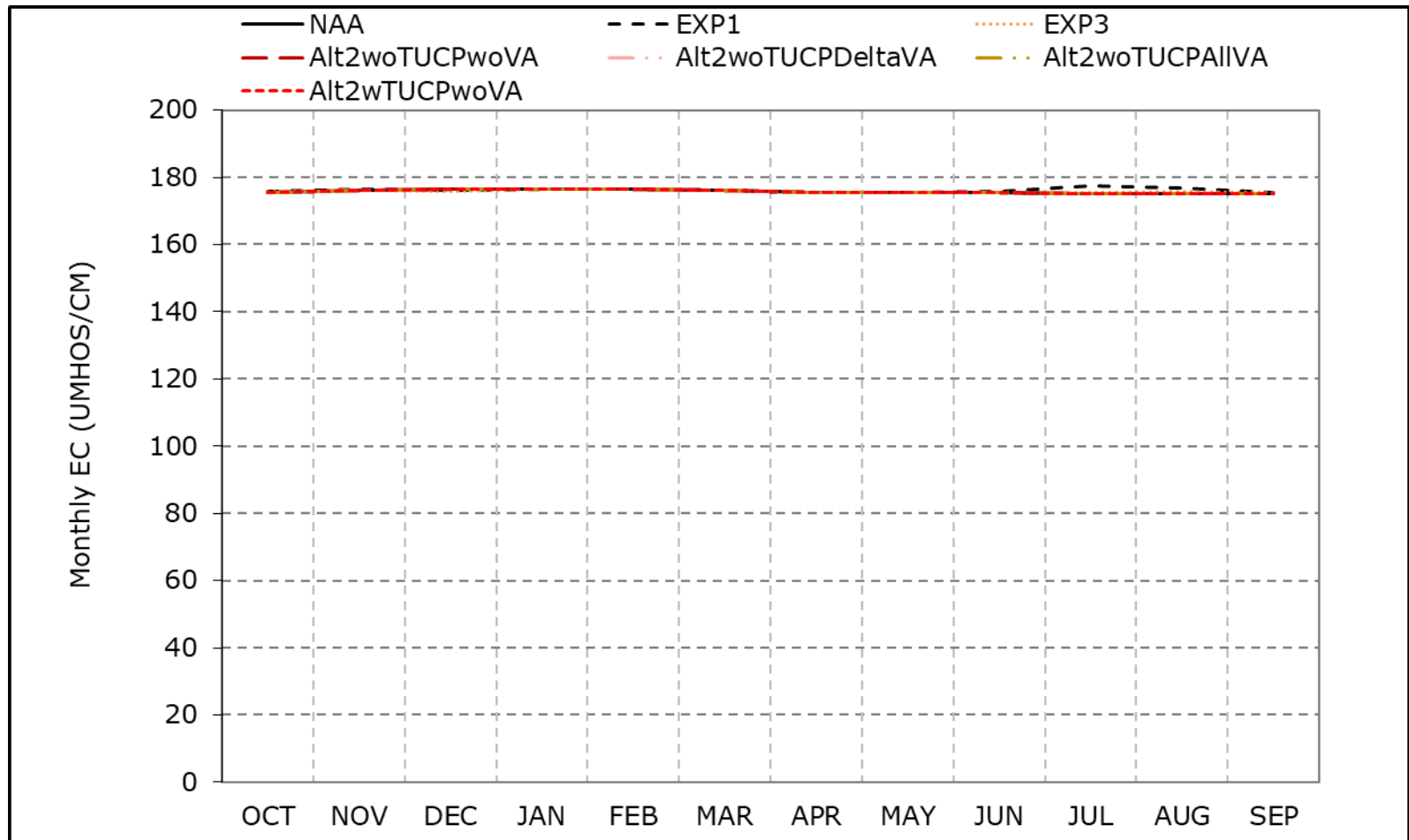


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-2. Sacramento River downstream of Georgiana Slough Salinity, Wet Year Average EC**

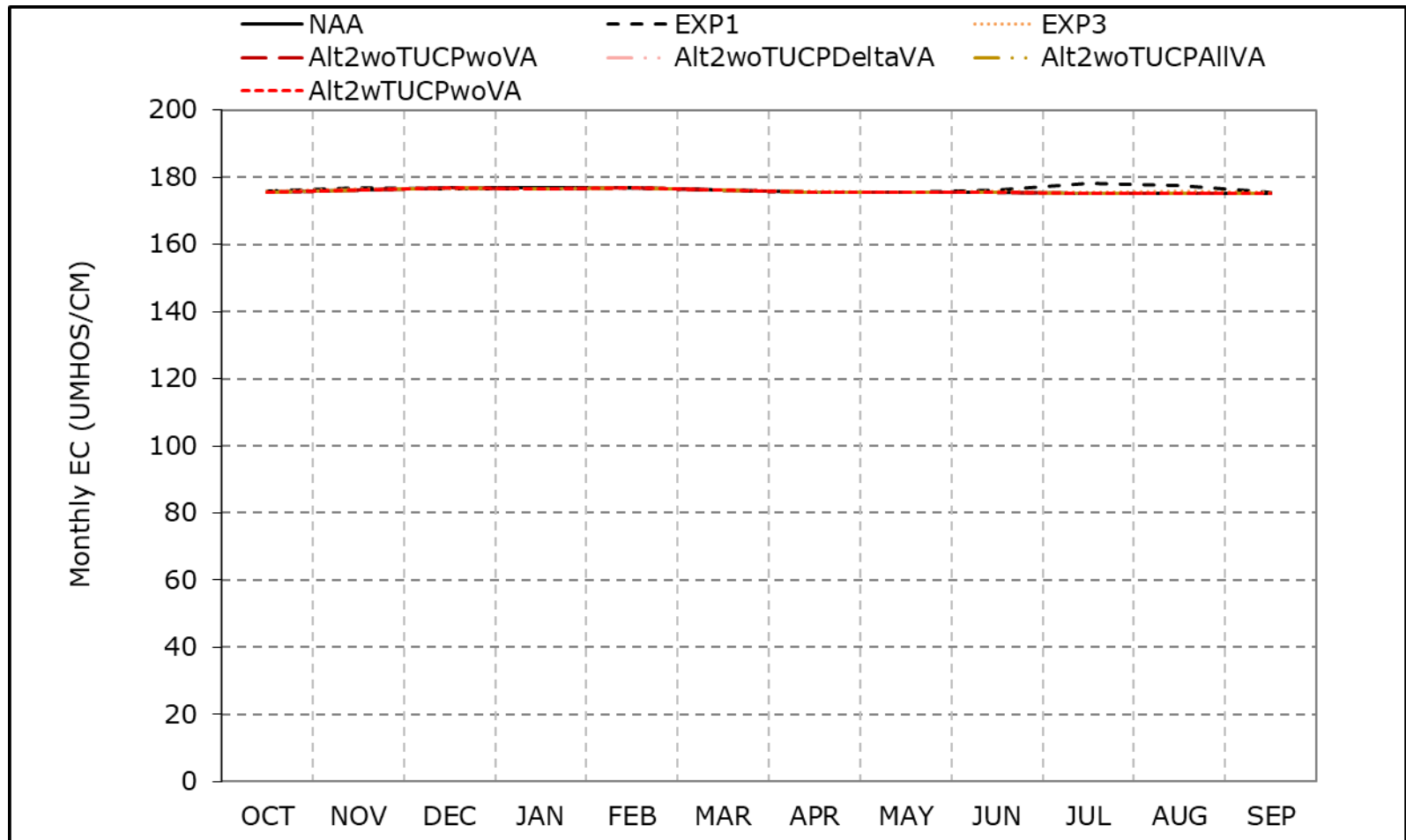


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-3. Sacramento River downstream of Georgiana Slough Salinity, Above Normal Year Average EC**

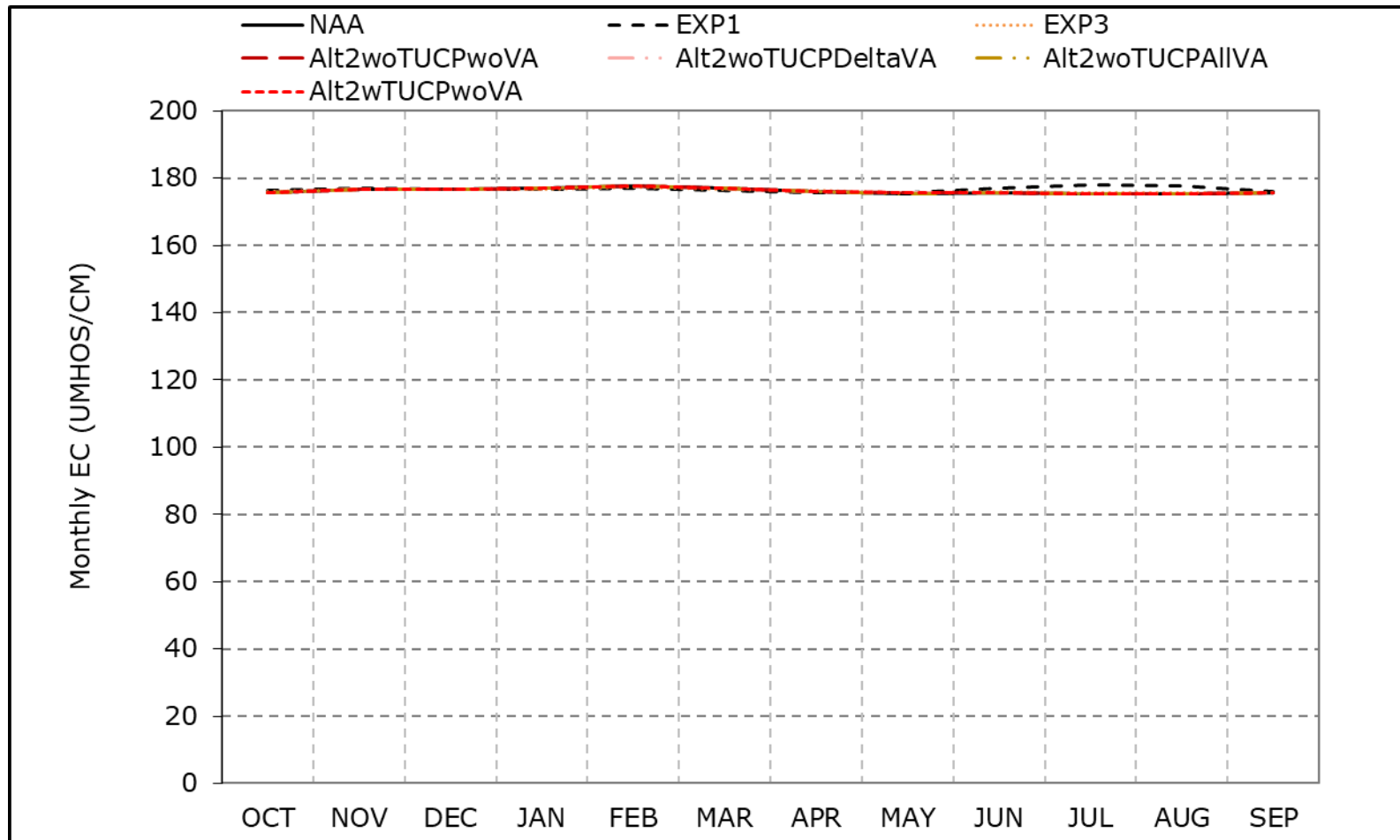


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-4. Sacramento River downstream of Georgiana Slough Salinity, Below Normal Year Average EC**



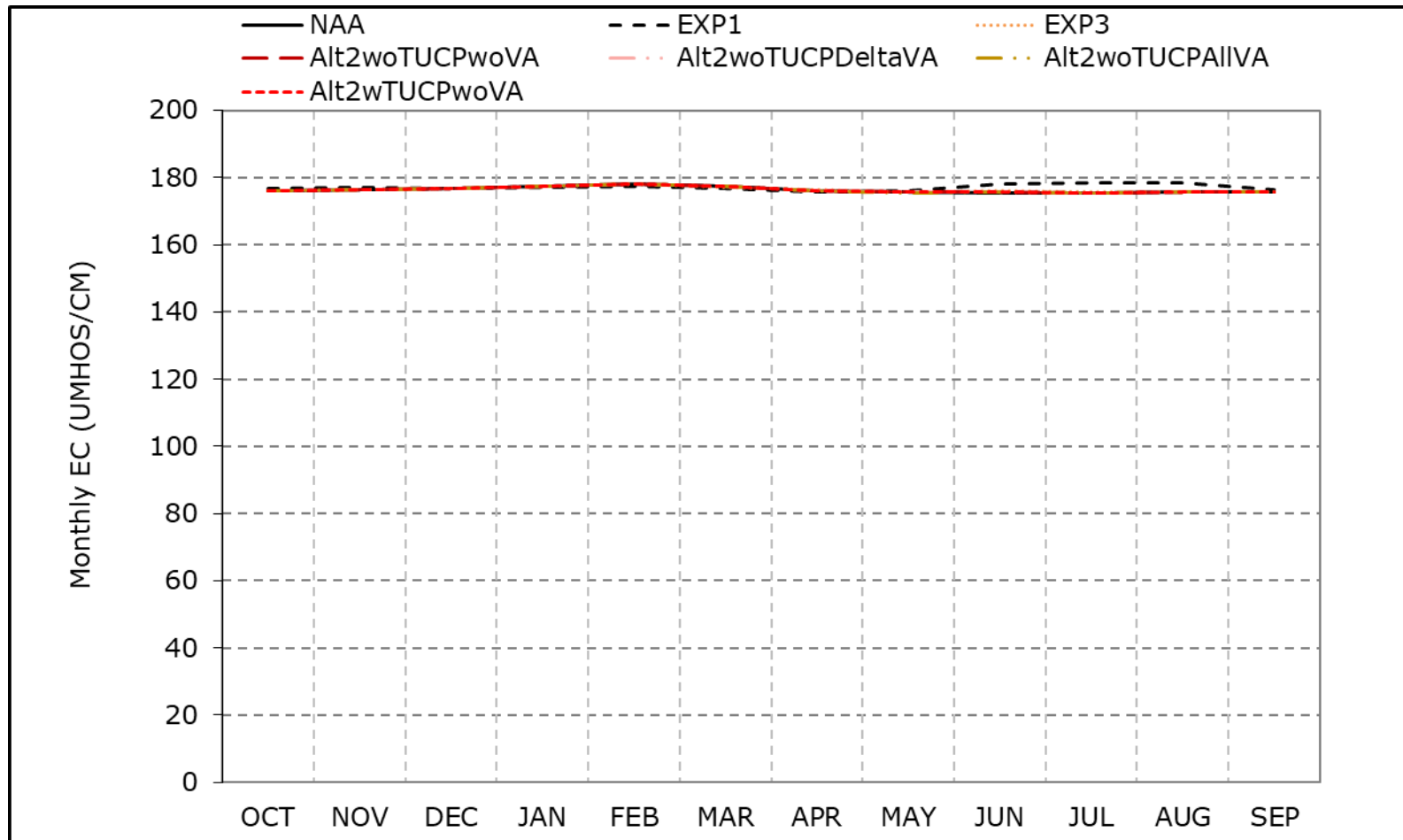
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-3-5. Sacramento River downstream of Georgiana Slough Salinity, Dry  
Year Average EC**

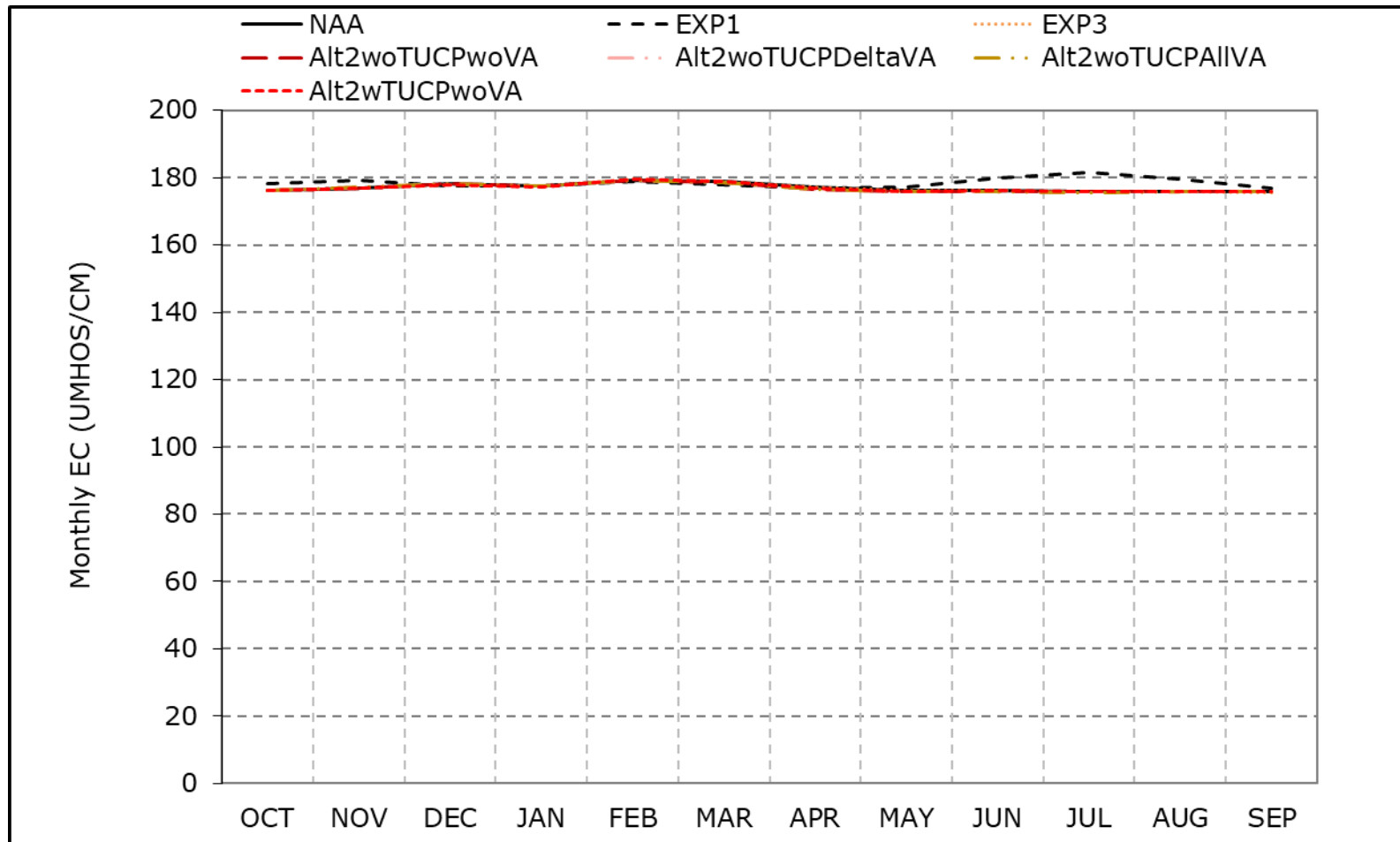


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-6. Sacramento River downstream of Georgiana Slough Salinity, Critical Year Average EC**

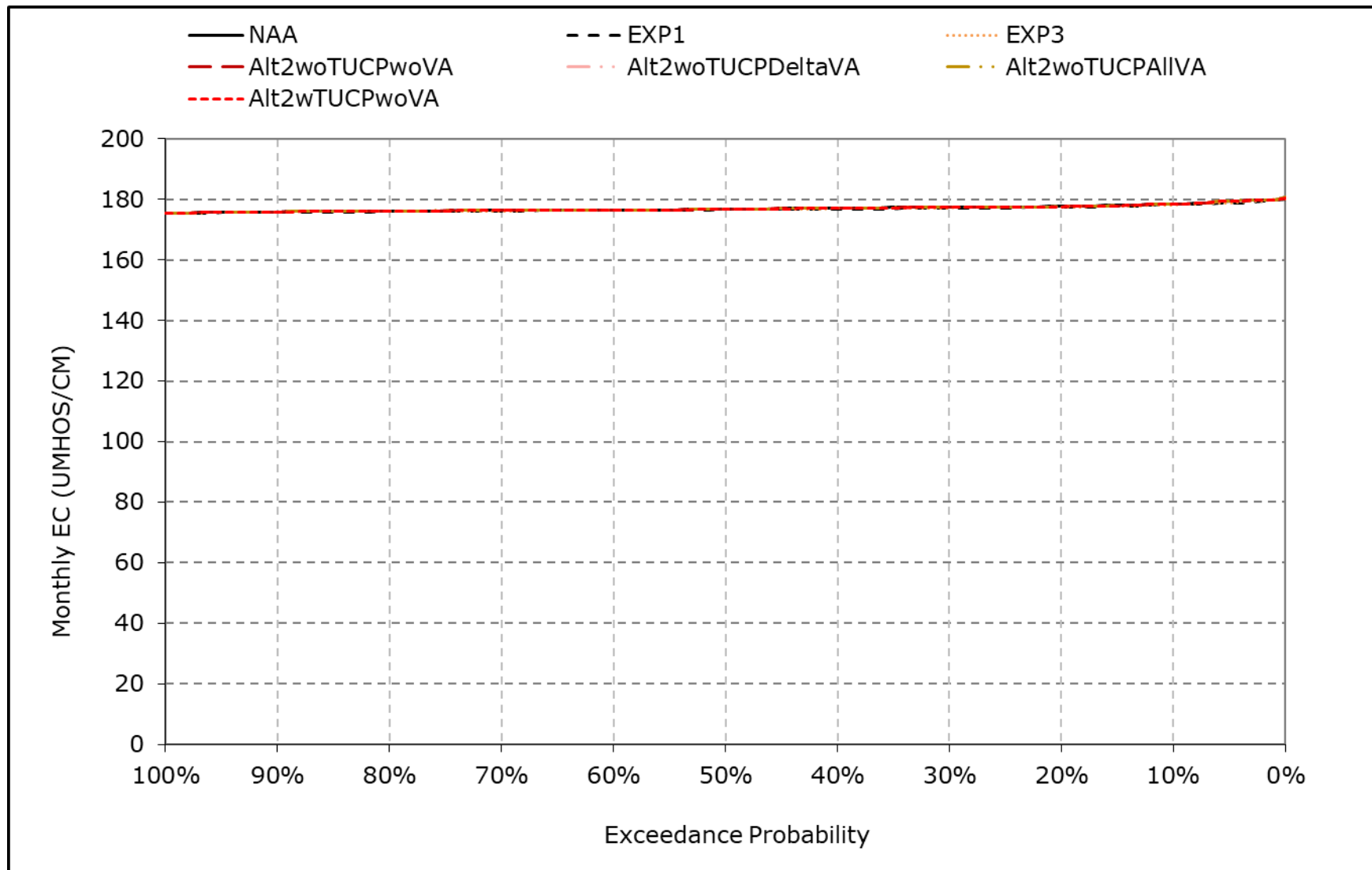


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

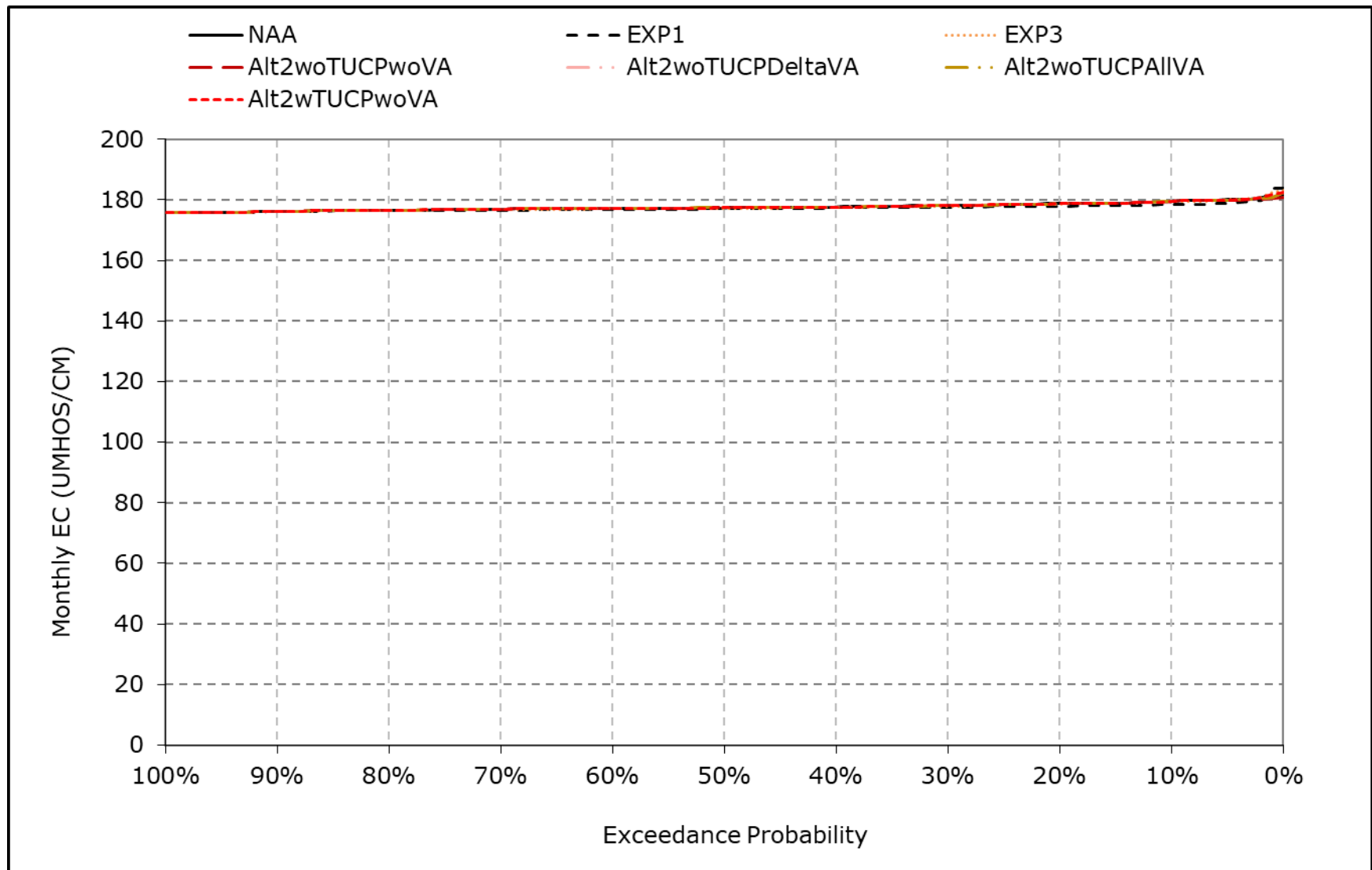
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-7. Sacramento River downstream of Georgiana Slough Salinity, January  
EC**



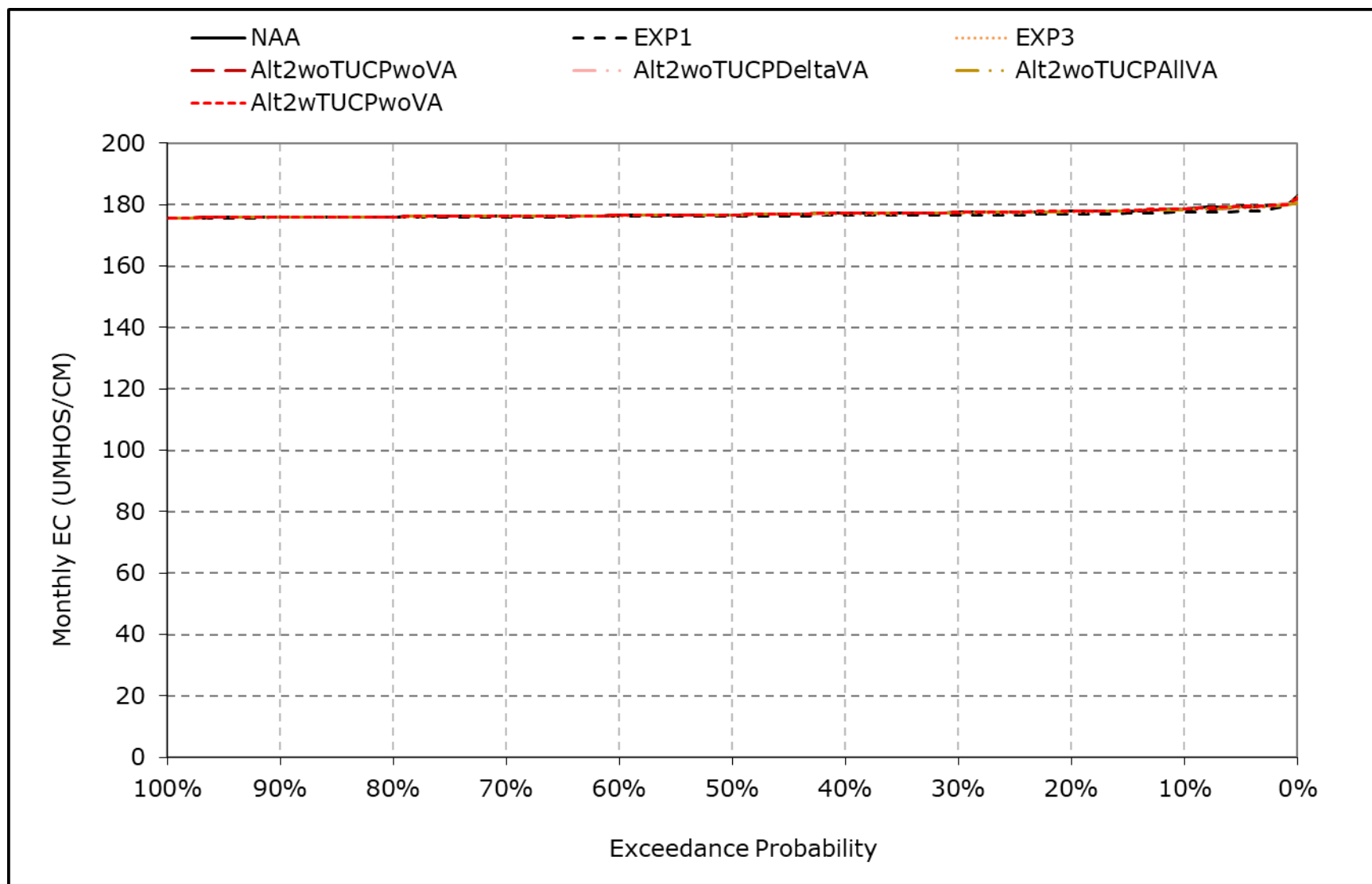
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-8. Sacramento River downstream of Georgiana Slough Salinity, February EC**



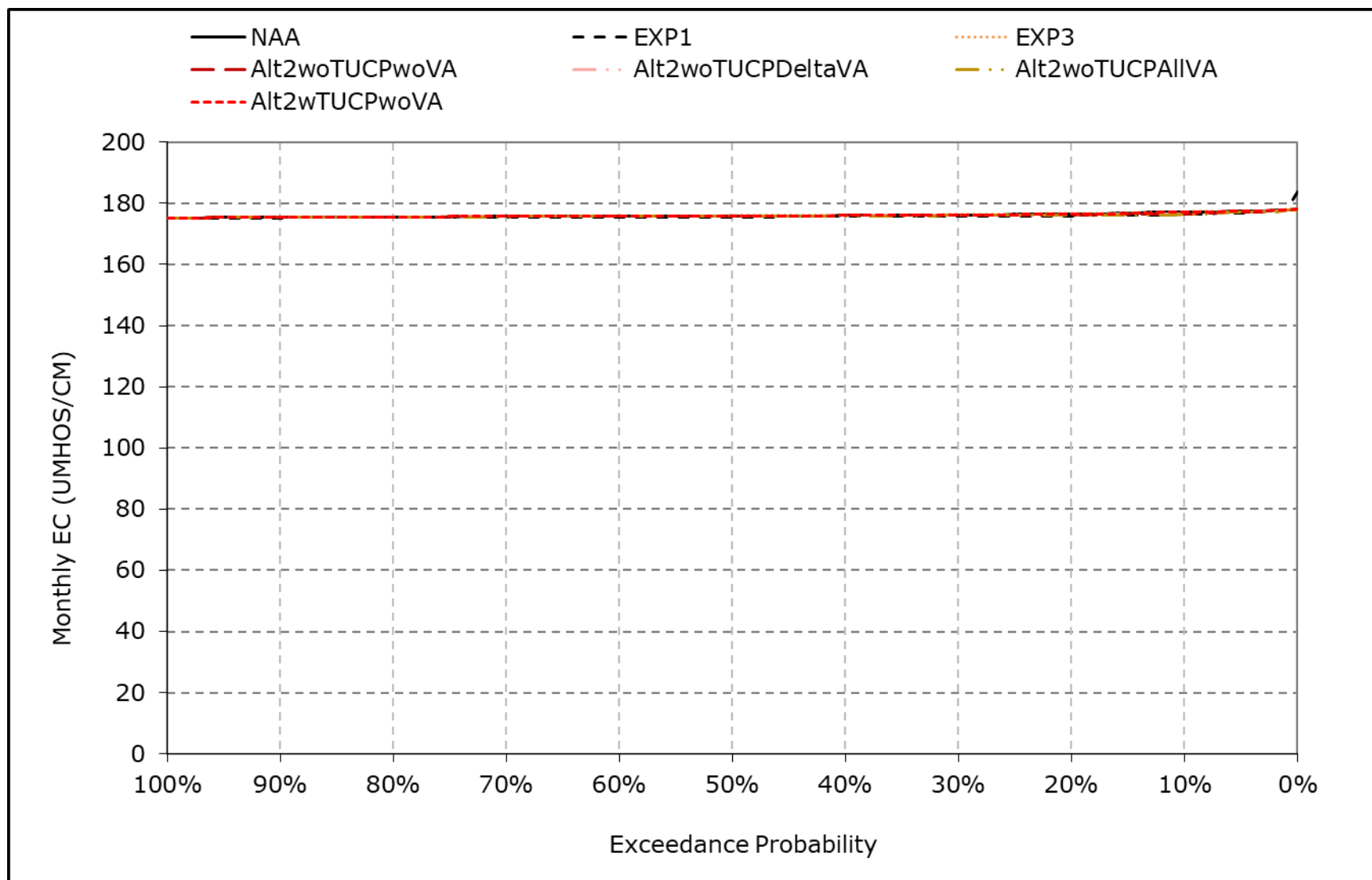
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-9. Sacramento River downstream of Georgiana Slough Salinity, March  
EC**



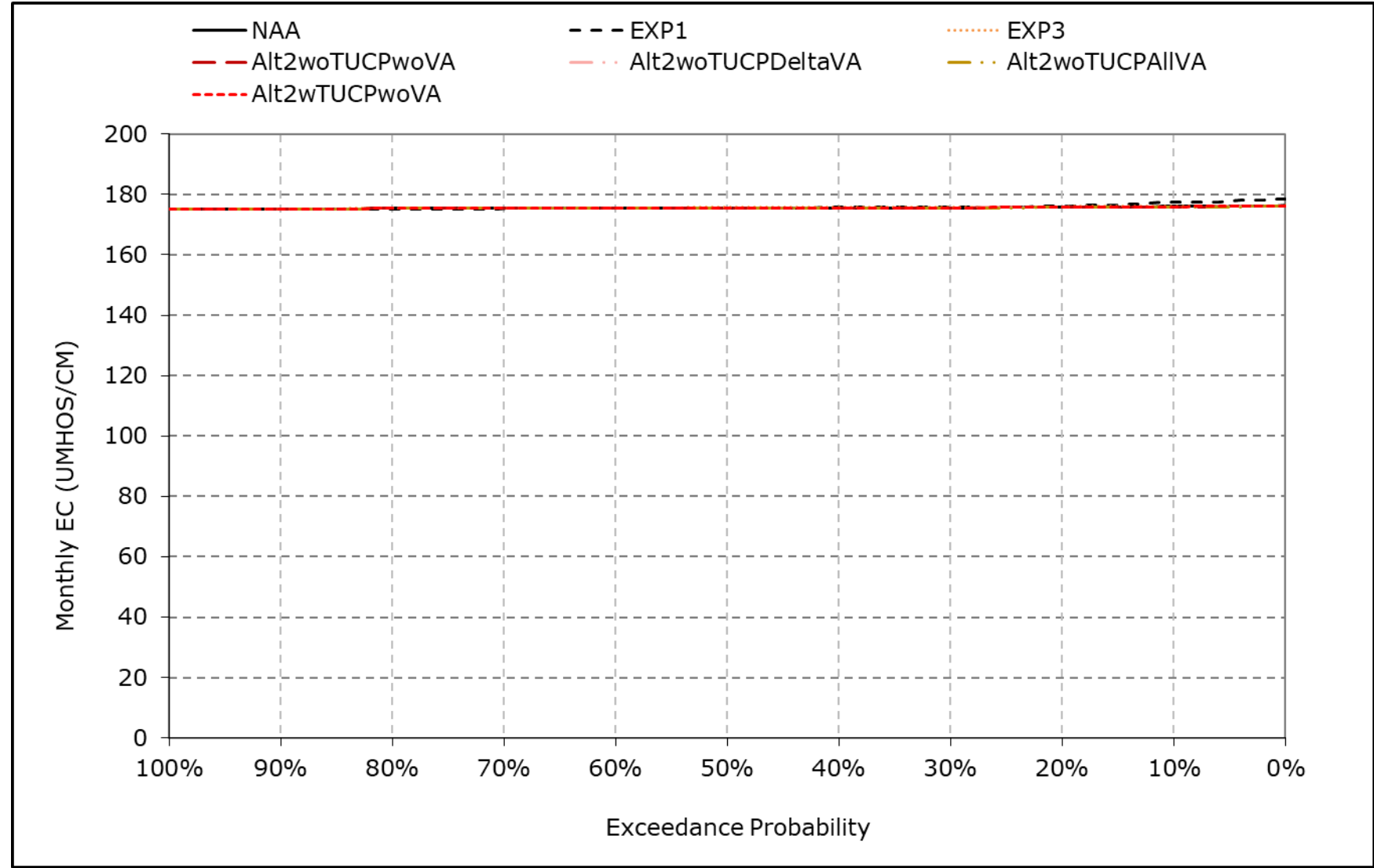
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-10. Sacramento River downstream of Georgiana Slough Salinity, April  
EC**



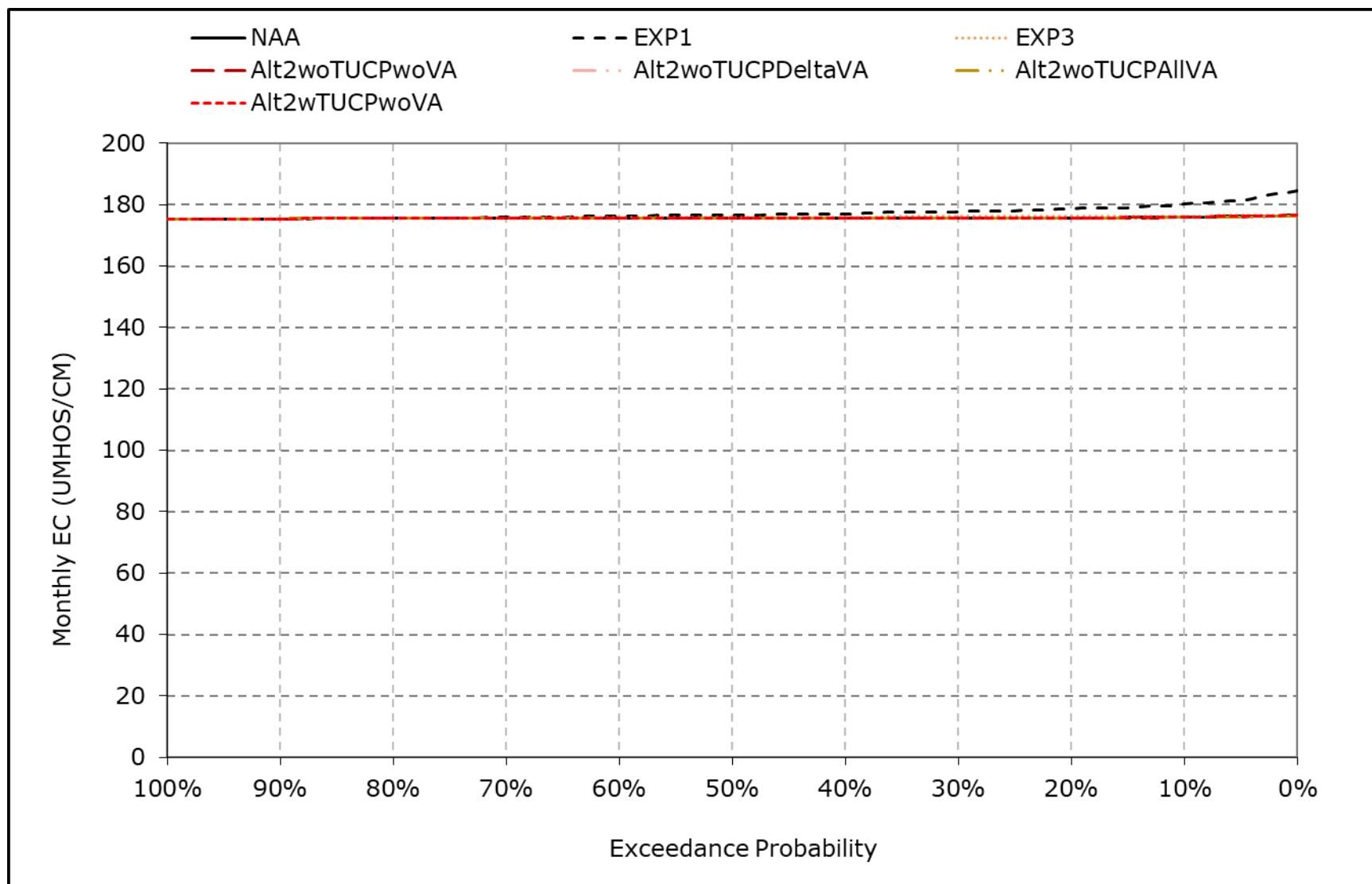
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-11. Sacramento River downstream of Georgiana Slough Salinity, May  
EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

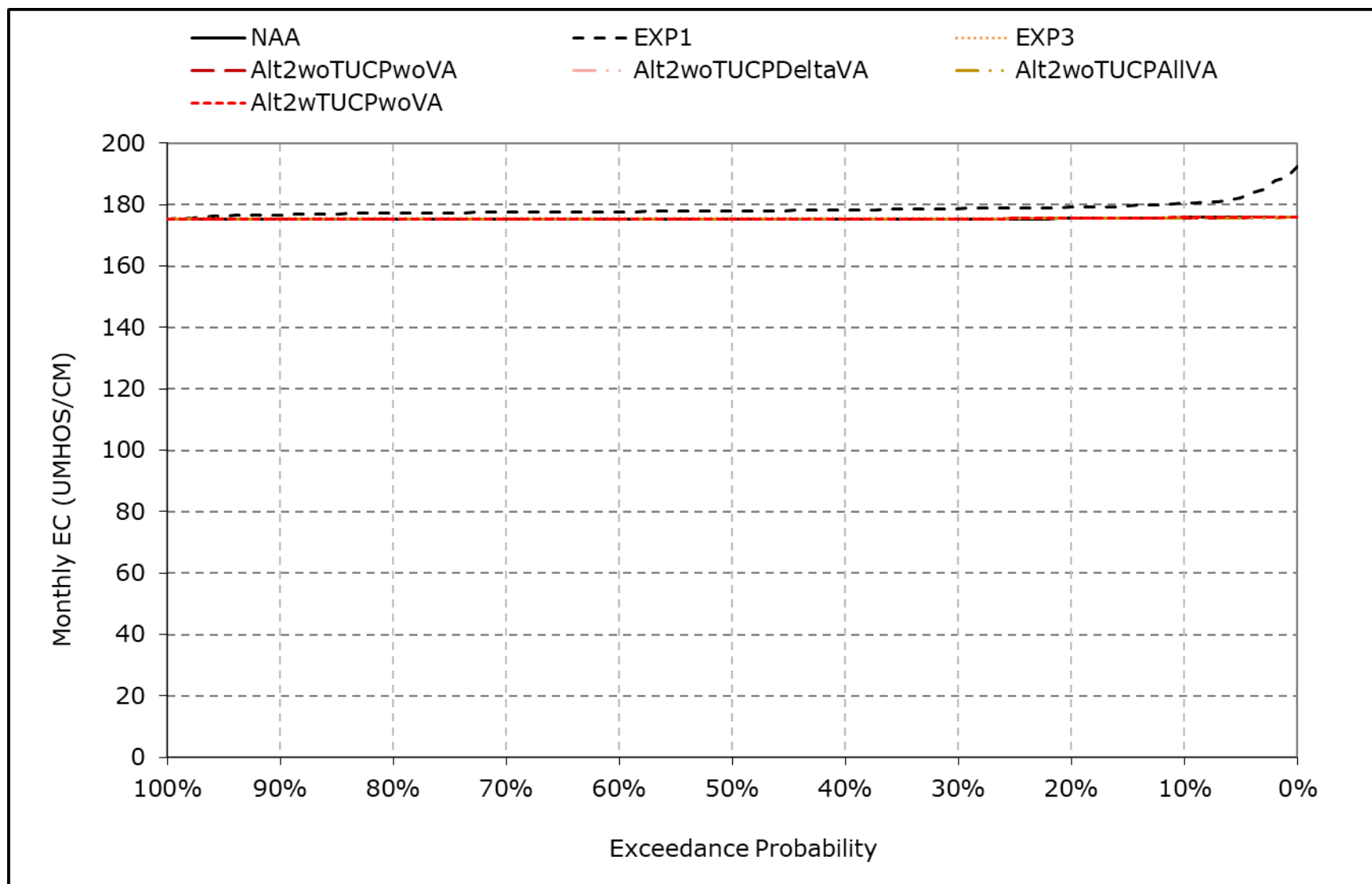
**Figure F.2.5-3-12. Sacramento River downstream of Georgiana Slough Salinity, June  
EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

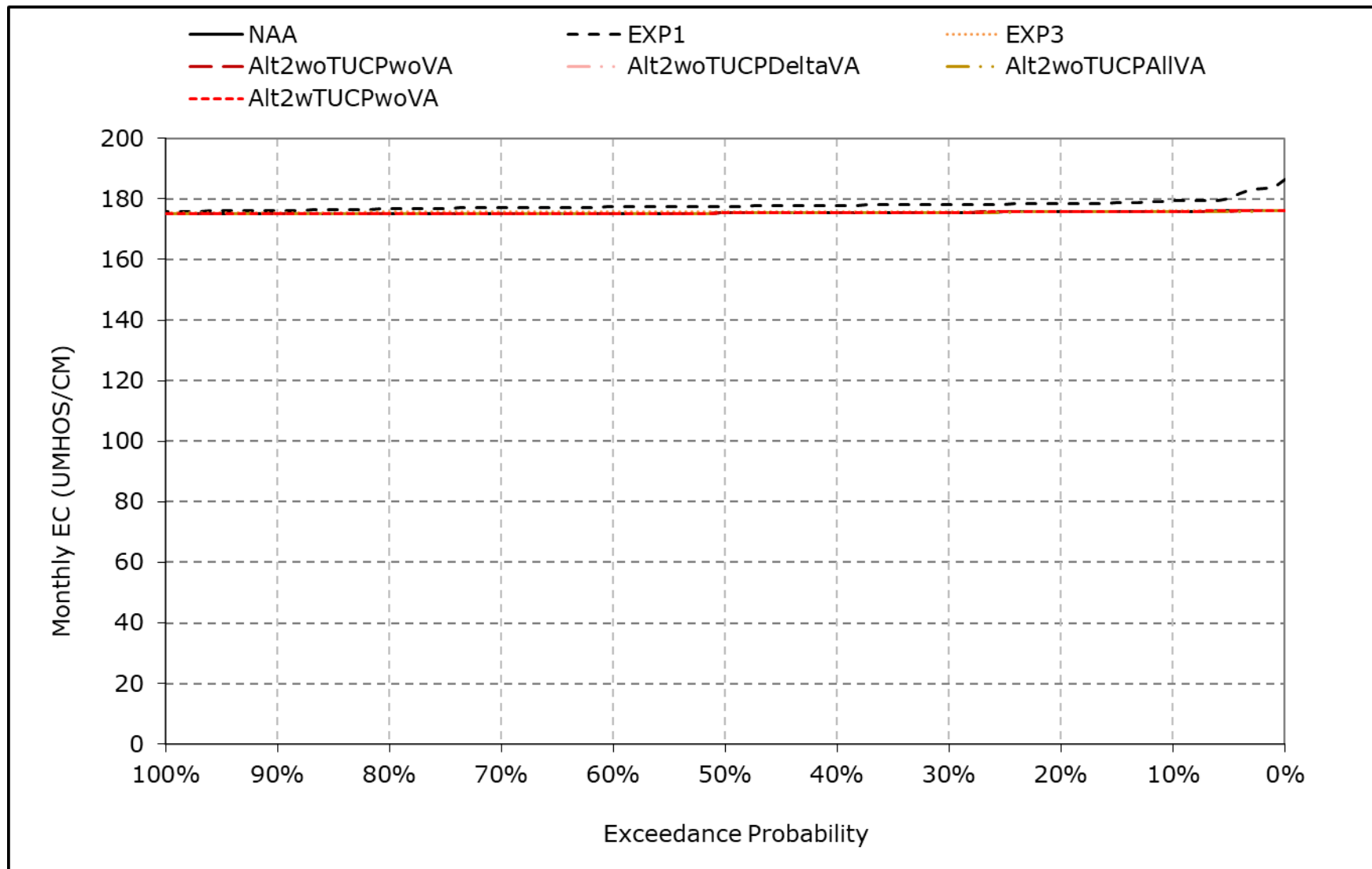


**Figure F.2.5-3-13. Sacramento River downstream of Georgiana Slough Salinity, July  
EC**



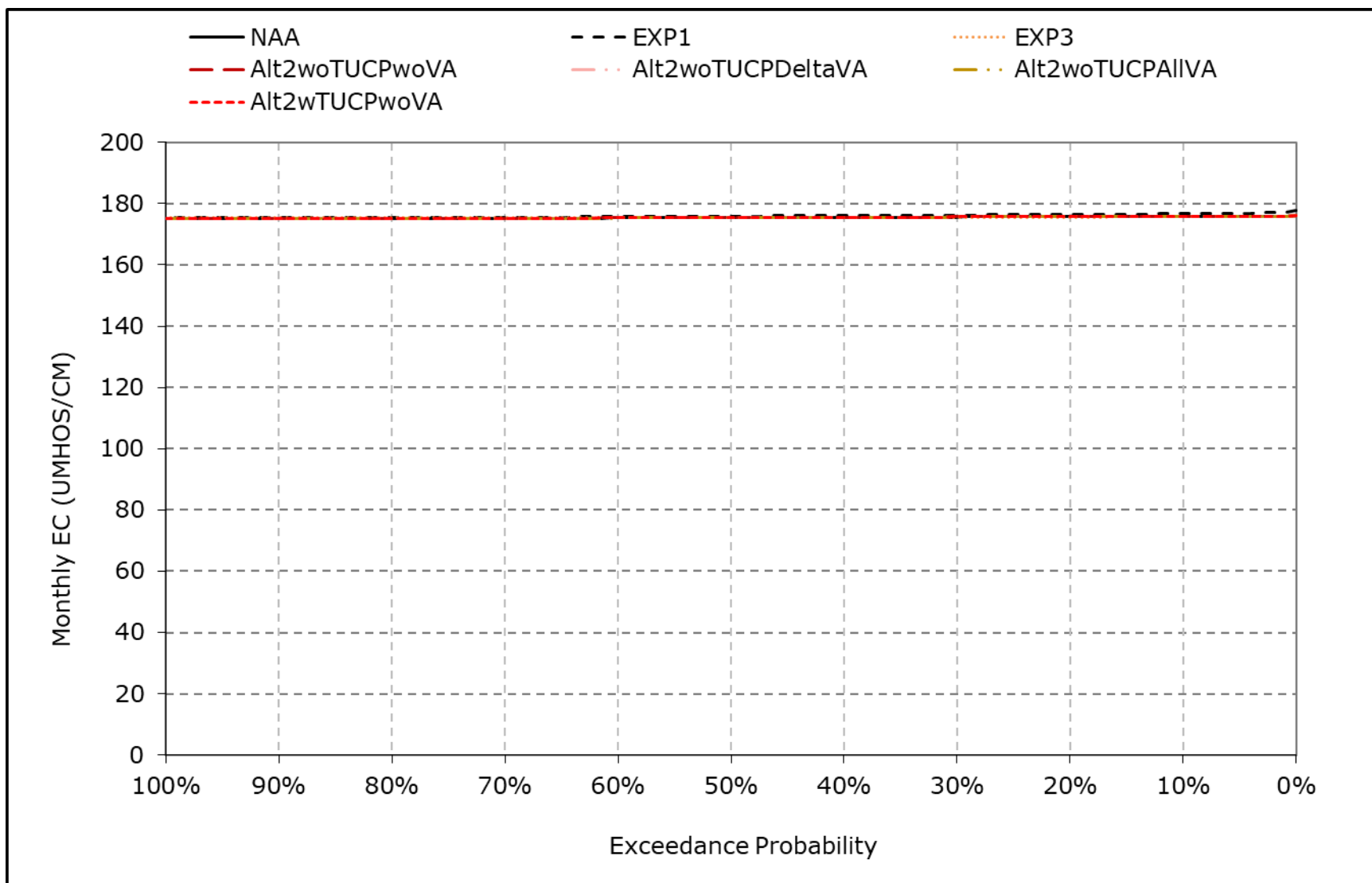
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-14. Sacramento River downstream of Georgiana Slough Salinity, August  
EC**



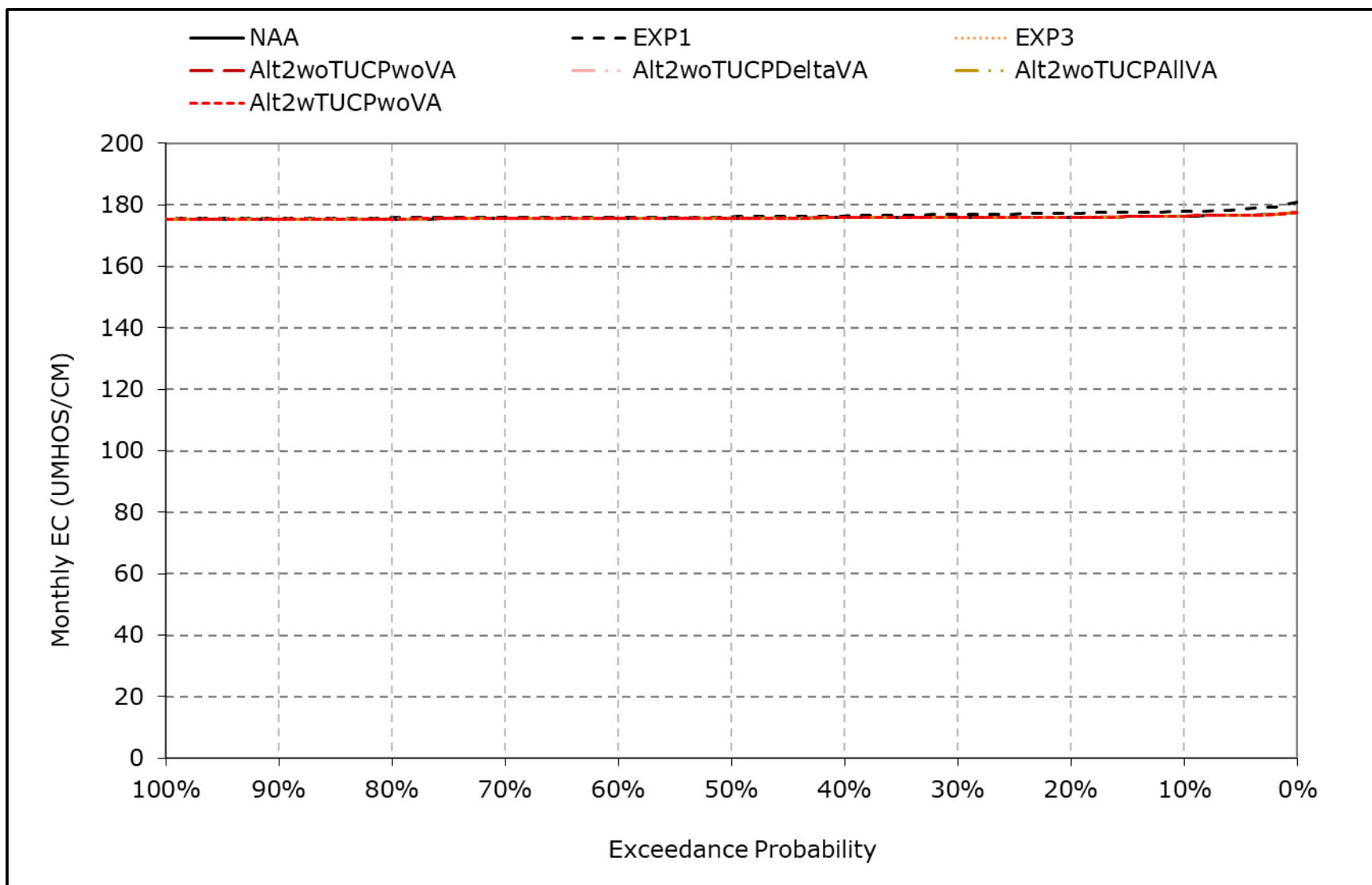
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-15. Sacramento River downstream of Georgiana Slough Salinity, September EC**



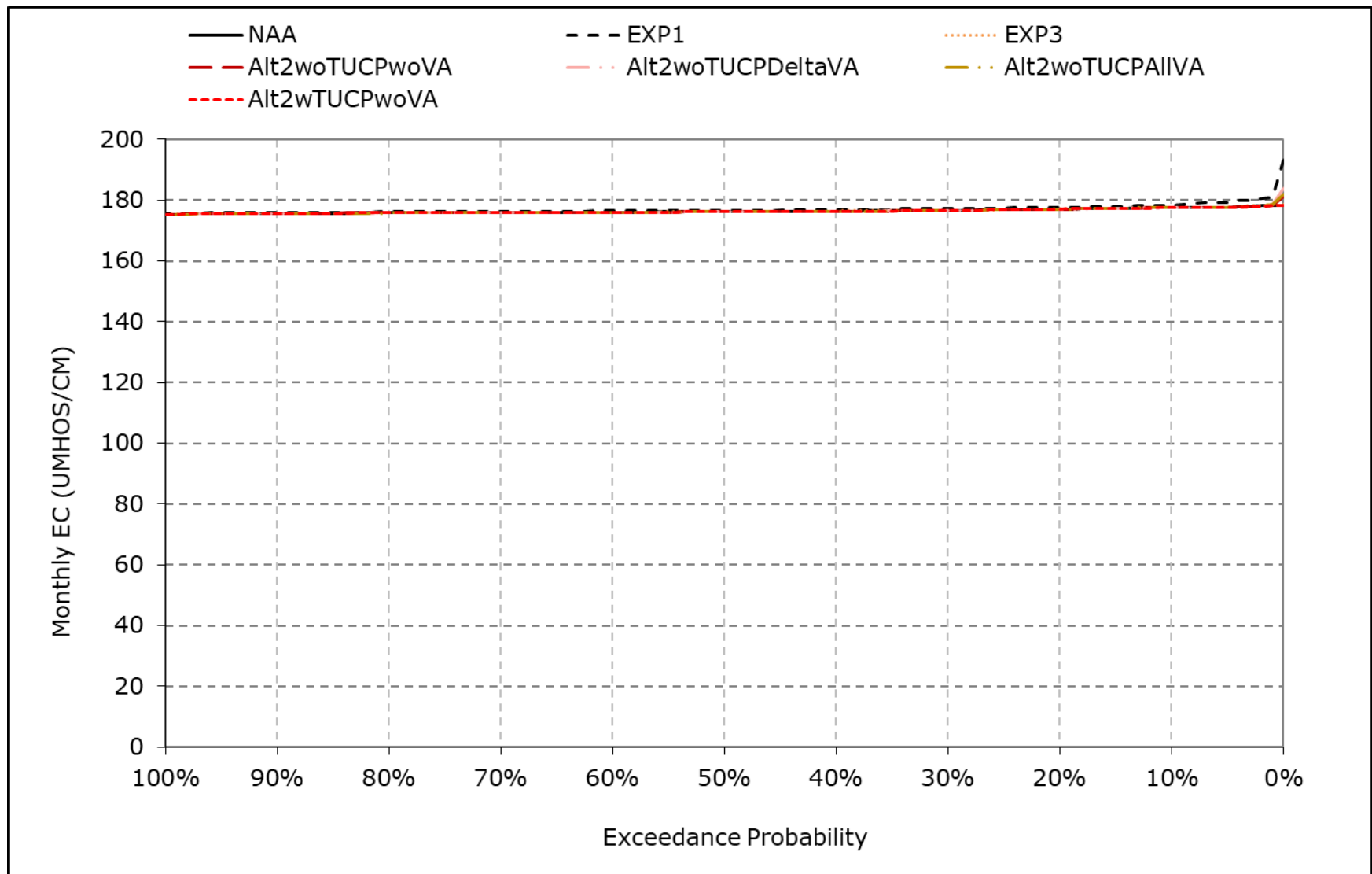
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-16. Sacramento River downstream of Georgiana Slough Salinity, October EC**



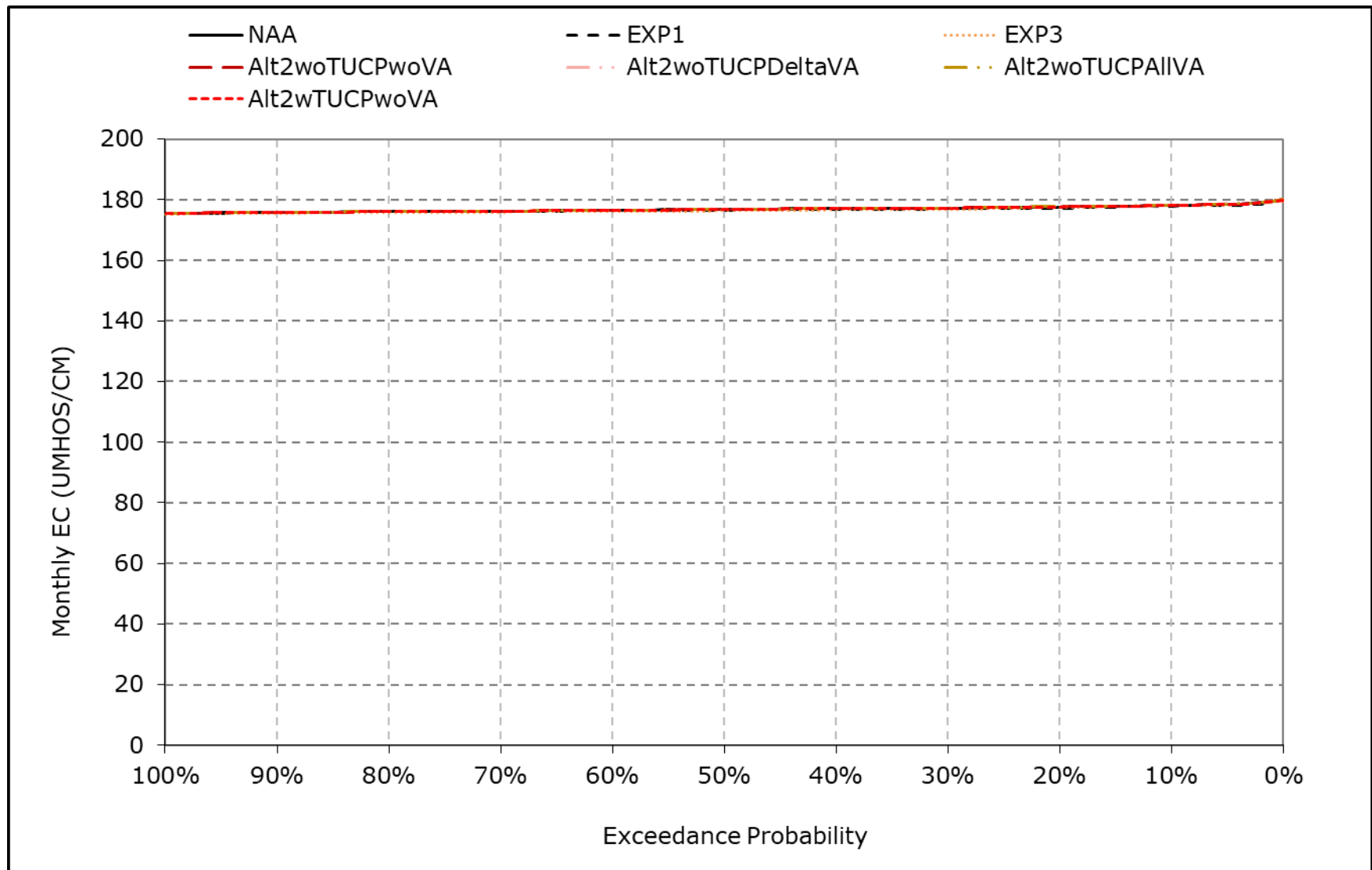
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-17. Sacramento River downstream of Georgiana Slough Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-3-18. Sacramento River downstream of Georgiana Slough Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-4-1a. Sacramento River at Emmaton Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,634 | 3,517 | 1,944 | 1,284 | 485 | 423 | 721   | 1,237 | 2,283 | 2,572 | 3,111 | 3,342 |
| 20% Exceedance                              | 3,137 | 2,854 | 1,528 | 904   | 309 | 261 | 400   | 428   | 721   | 1,087 | 2,098 | 3,001 |
| 30% Exceedance                              | 2,815 | 2,549 | 1,339 | 469   | 231 | 204 | 253   | 391   | 651   | 912   | 1,859 | 2,668 |
| 40% Exceedance                              | 2,525 | 2,101 | 1,092 | 305   | 203 | 197 | 216   | 326   | 571   | 772   | 1,565 | 2,462 |
| 50% Exceedance                              | 2,189 | 1,153 | 684   | 250   | 194 | 193 | 203   | 245   | 489   | 519   | 997   | 1,926 |
| 60% Exceedance                              | 446   | 1,011 | 380   | 211   | 188 | 190 | 196   | 226   | 453   | 406   | 671   | 487   |
| 70% Exceedance                              | 417   | 919   | 270   | 187   | 184 | 184 | 189   | 199   | 382   | 360   | 617   | 437   |
| 80% Exceedance                              | 388   | 730   | 223   | 181   | 181 | 181 | 185   | 185   | 285   | 330   | 579   | 406   |
| 90% Exceedance                              | 358   | 357   | 187   | 179   | 179 | 179 | 180   | 178   | 210   | 315   | 520   | 386   |
| Full Simulation Period Average <sup>a</sup> | 1,772 | 1,737 | 939   | 537   | 278 | 251 | 358   | 491   | 750   | 921   | 1,413 | 1,739 |
| Wet Water Years (28%)                       | 386   | 729   | 703   | 187   | 180 | 182 | 185   | 202   | 300   | 331   | 566   | 401   |
| Above Normal Years (14%)                    | 386   | 855   | 773   | 322   | 189 | 184 | 193   | 230   | 369   | 337   | 566   | 420   |
| Below Normal Years (18%)                    | 2,262 | 1,979 | 745   | 386   | 233 | 202 | 234   | 279   | 560   | 596   | 1,159 | 2,098 |
| Dry Water Years (24%)                       | 2,679 | 2,178 | 1,078 | 747   | 304 | 248 | 270   | 356   | 604   | 940   | 1,864 | 2,702 |
| Critical Water Years (16%)                  | 3,704 | 3,502 | 1,559 | 1,194 | 540 | 488 | 1,076 | 1,668 | 2,305 | 2,802 | 3,246 | 3,388 |

**Table F.2.5-4-1b. Sacramento River at Emmaton Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,802 | 3,056 | 2,096 | 1,259 | 448 | 335 | 456 | 802   | 1,107 | 1,666 | 2,696 | 3,376 |
| 20% Exceedance                              | 3,164 | 2,853 | 1,577 | 758   | 304 | 236 | 325 | 461   | 763   | 1,184 | 2,226 | 3,025 |
| 30% Exceedance                              | 2,822 | 2,535 | 1,359 | 420   | 228 | 204 | 255 | 423   | 663   | 908   | 1,986 | 2,761 |
| 40% Exceedance                              | 2,523 | 1,968 | 1,074 | 330   | 203 | 197 | 218 | 389   | 591   | 780   | 1,535 | 2,393 |
| 50% Exceedance                              | 2,142 | 1,132 | 629   | 252   | 193 | 193 | 203 | 272   | 479   | 568   | 1,029 | 2,132 |
| 60% Exceedance                              | 448   | 994   | 381   | 206   | 188 | 190 | 194 | 230   | 448   | 410   | 704   | 479   |
| 70% Exceedance                              | 411   | 914   | 265   | 186   | 184 | 184 | 188 | 199   | 404   | 383   | 642   | 440   |
| 80% Exceedance                              | 380   | 700   | 215   | 181   | 180 | 182 | 184 | 184   | 283   | 344   | 607   | 420   |
| 90% Exceedance                              | 358   | 365   | 188   | 179   | 179 | 179 | 180 | 178   | 209   | 321   | 566   | 395   |
| Full Simulation Period Average <sup>a</sup> | 1,803 | 1,659 | 937   | 530   | 271 | 241 | 278 | 408   | 658   | 808   | 1,368 | 1,771 |
| Wet Water Years (28%)                       | 387   | 728   | 719   | 185   | 180 | 182 | 185 | 208   | 299   | 341   | 601   | 411   |
| Above Normal Years (14%)                    | 377   | 828   | 772   | 323   | 189 | 184 | 193 | 242   | 365   | 359   | 602   | 423   |
| Below Normal Years (18%)                    | 2,274 | 1,879 | 727   | 395   | 231 | 201 | 237 | 315   | 567   | 602   | 1,158 | 2,138 |
| Dry Water Years (24%)                       | 2,709 | 2,201 | 1,079 | 698   | 289 | 247 | 275 | 374   | 637   | 1,001 | 1,969 | 2,762 |
| Critical Water Years (16%)                  | 3,854 | 3,098 | 1,532 | 1,216 | 520 | 427 | 568 | 1,061 | 1,680 | 1,958 | 2,713 | 3,433 |

**Table F.2.5-4-1c. Sacramento River at Emmaton Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec | Jan  | Feb | Mar | Apr  | May  | Jun    | Jul  | Aug  | Sep |
|---------------------------------------------|-----|------|-----|------|-----|-----|------|------|--------|------|------|-----|
| 10% Exceedance                              | 168 | -461 | 152 | -25  | -37 | -88 | -265 | -435 | -1,176 | -907 | -414 | 34  |
| 20% Exceedance                              | 27  | 0    | 49  | -146 | -5  | -25 | -75  | 34   | 41     | 97   | 127  | 23  |
| 30% Exceedance                              | 7   | -14  | 20  | -49  | -3  | 0   | 2    | 32   | 12     | -5   | 128  | 93  |
| 40% Exceedance                              | -2  | -132 | -19 | 25   | -1  | 0   | 2    | 63   | 20     | 8    | -30  | -69 |
| 50% Exceedance                              | -46 | -21  | -54 | 2    | -1  | 0   | 0    | 27   | -10    | 49   | 32   | 206 |
| 60% Exceedance                              | 2   | -17  | 1   | -5   | 0   | 0   | -2   | 4    | -4     | 4    | 34   | -9  |
| 70% Exceedance                              | -6  | -5   | -5  | 0    | 0   | 0   | -1   | -1   | 22     | 23   | 26   | 3   |
| 80% Exceedance                              | -8  | -30  | -8  | 0    | 0   | 0   | -1   | -1   | -2     | 15   | 27   | 14  |
| 90% Exceedance                              | 0   | 8    | 1   | 0    | 0   | 0   | 0    | 0    | -1     | 7    | 47   | 9   |
| Full Simulation Period Average <sup>a</sup> | 31  | -77  | -3  | -7   | -7  | -10 | -80  | -83  | -92    | -114 | -45  | 32  |
| Wet Water Years (28%)                       | 2   | -1   | 16  | -1   | 0   | 0   | 0    | 6    | -2     | 10   | 34   | 11  |
| Above Normal Years (14%)                    | -10 | -28  | -1  | 0    | 0   | 0   | -1   | 12   | -5     | 21   | 35   | 3   |
| Below Normal Years (18%)                    | 12  | -100 | -18 | 9    | -2  | 0   | 3    | 36   | 7      | 6    | 0    | 39  |
| Dry Water Years (24%)                       | 30  | 23   | 1   | -50  | -15 | -2  | 5    | 17   | 33     | 61   | 105  | 60  |
| Critical Water Years (16%)                  | 151 | -403 | -27 | 22   | -20 | -62 | -507 | -607 | -625   | -844 | -533 | 45  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-4-2a. Sacramento River at Emmaton Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,634 | 3,517 | 1,944 | 1,284 | 485 | 423 | 721   | 1,237 | 2,283 | 2,572 | 3,111 | 3,342 |
| 20% Exceedance                              | 3,137 | 2,854 | 1,528 | 904   | 309 | 261 | 400   | 428   | 721   | 1,087 | 2,098 | 3,001 |
| 30% Exceedance                              | 2,815 | 2,549 | 1,339 | 469   | 231 | 204 | 253   | 391   | 651   | 912   | 1,859 | 2,668 |
| 40% Exceedance                              | 2,525 | 2,101 | 1,092 | 305   | 203 | 197 | 216   | 326   | 571   | 772   | 1,565 | 2,462 |
| 50% Exceedance                              | 2,189 | 1,153 | 684   | 250   | 194 | 193 | 203   | 245   | 489   | 519   | 997   | 1,926 |
| 60% Exceedance                              | 446   | 1,011 | 380   | 211   | 188 | 190 | 196   | 226   | 453   | 406   | 671   | 487   |
| 70% Exceedance                              | 417   | 919   | 270   | 187   | 184 | 184 | 189   | 199   | 382   | 360   | 617   | 437   |
| 80% Exceedance                              | 388   | 730   | 223   | 181   | 181 | 181 | 185   | 185   | 285   | 330   | 579   | 406   |
| 90% Exceedance                              | 358   | 357   | 187   | 179   | 179 | 179 | 180   | 178   | 210   | 315   | 520   | 386   |
| Full Simulation Period Average <sup>a</sup> | 1,772 | 1,737 | 939   | 537   | 278 | 251 | 358   | 491   | 750   | 921   | 1,413 | 1,739 |
| Wet Water Years (28%)                       | 386   | 729   | 703   | 187   | 180 | 182 | 185   | 202   | 300   | 331   | 566   | 401   |
| Above Normal Years (14%)                    | 386   | 855   | 773   | 322   | 189 | 184 | 193   | 230   | 369   | 337   | 566   | 420   |
| Below Normal Years (18%)                    | 2,262 | 1,979 | 745   | 386   | 233 | 202 | 234   | 279   | 560   | 596   | 1,159 | 2,098 |
| Dry Water Years (24%)                       | 2,679 | 2,178 | 1,078 | 747   | 304 | 248 | 270   | 356   | 604   | 940   | 1,864 | 2,702 |
| Critical Water Years (16%)                  | 3,704 | 3,502 | 1,559 | 1,194 | 540 | 488 | 1,076 | 1,668 | 2,305 | 2,802 | 3,246 | 3,388 |

**Table F.2.5-4-2b. Sacramento River at Emmaton Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,814 | 3,163 | 1,941 | 1,304 | 464 | 326 | 433 | 808   | 1,110 | 1,616 | 2,675 | 3,381 |
| 20% Exceedance                              | 3,193 | 2,871 | 1,547 | 794   | 303 | 241 | 293 | 465   | 796   | 1,161 | 2,179 | 3,012 |
| 30% Exceedance                              | 2,804 | 2,571 | 1,340 | 423   | 226 | 204 | 255 | 431   | 685   | 917   | 1,883 | 2,791 |
| 40% Exceedance                              | 2,401 | 1,872 | 1,080 | 327   | 204 | 198 | 220 | 360   | 595   | 793   | 1,431 | 2,415 |
| 50% Exceedance                              | 2,172 | 1,153 | 640   | 261   | 193 | 195 | 203 | 273   | 494   | 571   | 1,024 | 2,088 |
| 60% Exceedance                              | 443   | 983   | 382   | 209   | 188 | 190 | 196 | 232   | 454   | 409   | 707   | 474   |
| 70% Exceedance                              | 413   | 875   | 268   | 187   | 184 | 184 | 189 | 202   | 402   | 371   | 640   | 436   |
| 80% Exceedance                              | 381   | 700   | 217   | 181   | 180 | 182 | 185 | 184   | 283   | 345   | 601   | 415   |
| 90% Exceedance                              | 357   | 377   | 187   | 179   | 179 | 179 | 180 | 178   | 210   | 317   | 561   | 395   |
| Full Simulation Period Average <sup>a</sup> | 1,803 | 1,662 | 940   | 541   | 291 | 238 | 276 | 407   | 664   | 797   | 1,338 | 1,768 |
| Wet Water Years (28%)                       | 388   | 718   | 724   | 186   | 180 | 183 | 185 | 208   | 302   | 338   | 597   | 409   |
| Above Normal Years (14%)                    | 378   | 817   | 757   | 323   | 189 | 185 | 195 | 235   | 373   | 353   | 594   | 417   |
| Below Normal Years (18%)                    | 2,231 | 1,854 | 721   | 398   | 233 | 200 | 231 | 319   | 575   | 613   | 1,106 | 2,123 |
| Dry Water Years (24%)                       | 2,720 | 2,205 | 1,050 | 713   | 291 | 234 | 265 | 369   | 644   | 988   | 1,909 | 2,778 |
| Critical Water Years (16%)                  | 3,888 | 3,168 | 1,611 | 1,254 | 640 | 428 | 571 | 1,062 | 1,680 | 1,910 | 2,692 | 3,410 |

**Table F.2.5-4-2c. Sacramento River at Emmaton Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec | Jan  | Feb | Mar | Apr  | May  | Jun    | Jul  | Aug  | Sep |
|---------------------------------------------|------|------|-----|------|-----|-----|------|------|--------|------|------|-----|
| 10% Exceedance                              | 180  | -354 | -3  | 20   | -21 | -97 | -289 | -429 | -1,172 | -957 | -435 | 40  |
| 20% Exceedance                              | 56   | 18   | 19  | -110 | -6  | -20 | -107 | 37   | 75     | 73   | 81   | 11  |
| 30% Exceedance                              | -11  | 22   | 1   | -46  | -5  | 0   | 3    | 40   | 34     | 4    | 24   | 123 |
| 40% Exceedance                              | -124 | -229 | -13 | 23   | 0   | 1   | 4    | 34   | 24     | 21   | -134 | -47 |
| 50% Exceedance                              | -17  | 0    | -44 | 10   | -1  | 1   | 0    | 28   | 5      | 52   | 26   | 161 |
| 60% Exceedance                              | -3   | -28  | 2   | -1   | 0   | 0   | 1    | 7    | 2      | 3    | 36   | -14 |
| 70% Exceedance                              | -4   | -43  | -3  | 0    | 0   | 0   | 0    | 3    | 20     | 11   | 23   | -2  |
| 80% Exceedance                              | -7   | -29  | -6  | 0    | 0   | 0   | 0    | 0    | -2     | 15   | 21   | 9   |
| 90% Exceedance                              | -1   | 20   | 0   | 0    | 0   | 0   | 0    | 0    | 0      | 3    | 41   | 9   |
| Full Simulation Period Average <sup>a</sup> | 31   | -75  | 0   | 3    | 13  | -13 | -82  | -84  | -86    | -124 | -74  | 28  |
| Wet Water Years (28%)                       | 2    | -11  | 22  | -1   | 0   | 0   | 0    | 7    | 1      | 6    | 31   | 8   |
| Above Normal Years (14%)                    | -9   | -39  | -16 | 1    | 0   | 1   | 1    | 6    | 4      | 16   | 28   | -3  |
| Below Normal Years (18%)                    | -31  | -126 | -24 | 12   | 0   | -2  | -2   | 40   | 15     | 17   | -53  | 25  |
| Dry Water Years (24%)                       | 41   | 27   | -28 | -35  | -13 | -15 | -5   | 12   | 40     | 48   | 45   | 76  |
| Critical Water Years (16%)                  | 184  | -333 | 52  | 60   | 101 | -60 | -505 | -606 | -624   | -892 | -553 | 23  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-4-3a. Sacramento River at Emmaton Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,634 | 3,517 | 1,944 | 1,284 | 485 | 423 | 721   | 1,237 | 2,283 | 2,572 | 3,111 | 3,342 |
| 20% Exceedance                              | 3,137 | 2,854 | 1,528 | 904   | 309 | 261 | 400   | 428   | 721   | 1,087 | 2,098 | 3,001 |
| 30% Exceedance                              | 2,815 | 2,549 | 1,339 | 469   | 231 | 204 | 253   | 391   | 651   | 912   | 1,859 | 2,668 |
| 40% Exceedance                              | 2,525 | 2,101 | 1,092 | 305   | 203 | 197 | 216   | 326   | 571   | 772   | 1,565 | 2,462 |
| 50% Exceedance                              | 2,189 | 1,153 | 684   | 250   | 194 | 193 | 203   | 245   | 489   | 519   | 997   | 1,926 |
| 60% Exceedance                              | 446   | 1,011 | 380   | 211   | 188 | 190 | 196   | 226   | 453   | 406   | 671   | 487   |
| 70% Exceedance                              | 417   | 919   | 270   | 187   | 184 | 184 | 189   | 199   | 382   | 360   | 617   | 437   |
| 80% Exceedance                              | 388   | 730   | 223   | 181   | 181 | 181 | 185   | 185   | 285   | 330   | 579   | 406   |
| 90% Exceedance                              | 358   | 357   | 187   | 179   | 179 | 179 | 180   | 178   | 210   | 315   | 520   | 386   |
| Full Simulation Period Average <sup>a</sup> | 1,772 | 1,737 | 939   | 537   | 278 | 251 | 358   | 491   | 750   | 921   | 1,413 | 1,739 |
| Wet Water Years (28%)                       | 386   | 729   | 703   | 187   | 180 | 182 | 185   | 202   | 300   | 331   | 566   | 401   |
| Above Normal Years (14%)                    | 386   | 855   | 773   | 322   | 189 | 184 | 193   | 230   | 369   | 337   | 566   | 420   |
| Below Normal Years (18%)                    | 2,262 | 1,979 | 745   | 386   | 233 | 202 | 234   | 279   | 560   | 596   | 1,159 | 2,098 |
| Dry Water Years (24%)                       | 2,679 | 2,178 | 1,078 | 747   | 304 | 248 | 270   | 356   | 604   | 940   | 1,864 | 2,702 |
| Critical Water Years (16%)                  | 3,704 | 3,502 | 1,559 | 1,194 | 540 | 488 | 1,076 | 1,668 | 2,305 | 2,802 | 3,246 | 3,388 |

**Table F.2.5-4-3b. Sacramento River at Emmaton Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 3,789 | 3,252 | 1,945 | 1,292 | 440 | 320 | 403 | 677 | 1,058 | 1,561 | 2,647 | 3,349 |
| 20% Exceedance                              | 3,171 | 2,878 | 1,524 | 872   | 300 | 240 | 273 | 409 | 741   | 1,195 | 2,171 | 3,018 |
| 30% Exceedance                              | 2,856 | 2,573 | 1,332 | 427   | 222 | 204 | 228 | 369 | 669   | 929   | 1,877 | 2,781 |
| 40% Exceedance                              | 2,448 | 1,931 | 1,076 | 326   | 201 | 198 | 208 | 314 | 567   | 796   | 1,417 | 2,391 |
| 50% Exceedance                              | 2,156 | 1,152 | 640   | 259   | 194 | 194 | 198 | 238 | 498   | 583   | 1,004 | 2,067 |
| 60% Exceedance                              | 442   | 974   | 382   | 210   | 188 | 190 | 193 | 213 | 454   | 402   | 708   | 473   |
| 70% Exceedance                              | 412   | 868   | 261   | 186   | 184 | 184 | 189 | 196 | 392   | 371   | 628   | 436   |
| 80% Exceedance                              | 380   | 701   | 215   | 181   | 180 | 182 | 185 | 184 | 282   | 339   | 594   | 412   |
| 90% Exceedance                              | 357   | 374   | 186   | 179   | 179 | 179 | 180 | 178 | 212   | 319   | 556   | 394   |
| Full Simulation Period Average <sup>a</sup> | 1,794 | 1,684 | 941   | 546   | 295 | 236 | 258 | 359 | 635   | 793   | 1,330 | 1,750 |
| Wet Water Years (28%)                       | 387   | 717   | 723   | 186   | 180 | 183 | 185 | 207 | 302   | 337   | 594   | 409   |
| Above Normal Years (14%)                    | 377   | 814   | 753   | 322   | 189 | 185 | 193 | 217 | 368   | 352   | 583   | 416   |
| Below Normal Years (18%)                    | 2,231 | 1,904 | 706   | 394   | 233 | 200 | 211 | 268 | 569   | 612   | 1,097 | 2,061 |
| Dry Water Years (24%)                       | 2,702 | 2,141 | 1,050 | 692   | 295 | 232 | 241 | 325 | 618   | 1,000 | 1,908 | 2,774 |
| Critical Water Years (16%)                  | 3,863 | 3,362 | 1,643 | 1,324 | 662 | 422 | 522 | 903 | 1,551 | 1,870 | 2,664 | 3,377 |

**Table F.2.5-4-3c. Sacramento River at Emmaton Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec | Jan | Feb | Mar  | Apr  | May  | Jun    | Jul    | Aug  | Sep |
|---------------------------------------------|-----|------|-----|-----|-----|------|------|------|--------|--------|------|-----|
| 10% Exceedance                              | 155 | -265 | 1   | 8   | -45 | -103 | -319 | -560 | -1,224 | -1,011 | -463 | 7   |
| 20% Exceedance                              | 34  | 25   | -4  | -33 | -8  | -21  | -127 | -18  | 20     | 108    | 73   | 17  |
| 30% Exceedance                              | 41  | 24   | -7  | -42 | -9  | 0    | -25  | -22  | 18     | 17     | 19   | 113 |
| 40% Exceedance                              | -77 | -169 | -16 | 21  | -2  | 1    | -7   | -12  | -4     | 24     | -148 | -71 |
| 50% Exceedance                              | -33 | -2   | -44 | 9   | -1  | 1    | -5   | -7   | 9      | 64     | 6    | 140 |
| 60% Exceedance                              | -4  | -37  | 2   | -1  | 0   | 0    | -2   | -13  | 1      | -4     | 38   | -14 |
| 70% Exceedance                              | -5  | -51  | -9  | 0   | 0   | 0    | 0    | -3   | 10     | 11     | 11   | -2  |
| 80% Exceedance                              | -8  | -29  | -8  | 0   | 0   | 0    | 0    | -1   | -3     | 10     | 14   | 6   |
| 90% Exceedance                              | -1  | 17   | -1  | 0   | 0   | 0    | 0    | 0    | 2      | 4      | 36   | 9   |
| Full Simulation Period Average <sup>a</sup> | 23  | -53  | 2   | 9   | 17  | -15  | -100 | -132 | -115   | -128   | -83  | 10  |
| Wet Water Years (28%)                       | 1   | -11  | 20  | 0   | 0   | 0    | 0    | 5    | 2      | 5      | 28   | 8   |
| Above Normal Years (14%)                    | -9  | -42  | -20 | 0   | 0   | 1    | -1   | -13  | -2     | 15     | 17   | -4  |
| Below Normal Years (18%)                    | -31 | -76  | -39 | 8   | 0   | -2   | -23  | -11  | 9      | 17     | -61  | -38 |
| Dry Water Years (24%)                       | 23  | -37  | -28 | -55 | -9  | -17  | -29  | -31  | 14     | 61     | 45   | 71  |
| Critical Water Years (16%)                  | 159 | -139 | 84  | 130 | 122 | -66  | -554 | -766 | -754   | -931   | -582 | -10 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-4-4a. Sacramento River at Emmaton Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,634 | 3,517 | 1,944 | 1,284 | 485 | 423 | 721   | 1,237 | 2,283 | 2,572 | 3,111 | 3,342 |
| 20% Exceedance                              | 3,137 | 2,854 | 1,528 | 904   | 309 | 261 | 400   | 428   | 721   | 1,087 | 2,098 | 3,001 |
| 30% Exceedance                              | 2,815 | 2,549 | 1,339 | 469   | 231 | 204 | 253   | 391   | 651   | 912   | 1,859 | 2,668 |
| 40% Exceedance                              | 2,525 | 2,101 | 1,092 | 305   | 203 | 197 | 216   | 326   | 571   | 772   | 1,565 | 2,462 |
| 50% Exceedance                              | 2,189 | 1,153 | 684   | 250   | 194 | 193 | 203   | 245   | 489   | 519   | 997   | 1,926 |
| 60% Exceedance                              | 446   | 1,011 | 380   | 211   | 188 | 190 | 196   | 226   | 453   | 406   | 671   | 487   |
| 70% Exceedance                              | 417   | 919   | 270   | 187   | 184 | 184 | 189   | 199   | 382   | 360   | 617   | 437   |
| 80% Exceedance                              | 388   | 730   | 223   | 181   | 181 | 181 | 185   | 185   | 285   | 330   | 579   | 406   |
| 90% Exceedance                              | 358   | 357   | 187   | 179   | 179 | 179 | 180   | 178   | 210   | 315   | 520   | 386   |
| Full Simulation Period Average <sup>a</sup> | 1,772 | 1,737 | 939   | 537   | 278 | 251 | 358   | 491   | 750   | 921   | 1,413 | 1,739 |
| Wet Water Years (28%)                       | 386   | 729   | 703   | 187   | 180 | 182 | 185   | 202   | 300   | 331   | 566   | 401   |
| Above Normal Years (14%)                    | 386   | 855   | 773   | 322   | 189 | 184 | 193   | 230   | 369   | 337   | 566   | 420   |
| Below Normal Years (18%)                    | 2,262 | 1,979 | 745   | 386   | 233 | 202 | 234   | 279   | 560   | 596   | 1,159 | 2,098 |
| Dry Water Years (24%)                       | 2,679 | 2,178 | 1,078 | 747   | 304 | 248 | 270   | 356   | 604   | 940   | 1,864 | 2,702 |
| Critical Water Years (16%)                  | 3,704 | 3,502 | 1,559 | 1,194 | 540 | 488 | 1,076 | 1,668 | 2,305 | 2,802 | 3,246 | 3,388 |

**Table F.2.5-4-4b. Sacramento River at Emmaton Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,566 | 3,300 | 1,981 | 1,238 | 448 | 428 | 527   | 1,128 | 2,467 | 2,877 | 3,110 | 3,358 |
| 20% Exceedance                              | 3,164 | 2,876 | 1,675 | 770   | 304 | 265 | 404   | 461   | 785   | 1,260 | 2,224 | 3,009 |
| 30% Exceedance                              | 2,818 | 2,542 | 1,374 | 459   | 222 | 204 | 256   | 423   | 669   | 905   | 2,002 | 2,752 |
| 40% Exceedance                              | 2,446 | 1,968 | 1,080 | 314   | 202 | 197 | 218   | 378   | 596   | 735   | 1,430 | 2,341 |
| 50% Exceedance                              | 2,156 | 1,132 | 632   | 251   | 193 | 193 | 203   | 272   | 479   | 568   | 1,028 | 2,071 |
| 60% Exceedance                              | 448   | 994   | 381   | 206   | 188 | 190 | 194   | 230   | 449   | 410   | 706   | 479   |
| 70% Exceedance                              | 411   | 914   | 271   | 186   | 184 | 184 | 188   | 199   | 404   | 383   | 643   | 440   |
| 80% Exceedance                              | 379   | 700   | 215   | 181   | 180 | 181 | 184   | 184   | 283   | 344   | 609   | 421   |
| 90% Exceedance                              | 353   | 365   | 188   | 179   | 179 | 179 | 180   | 178   | 208   | 321   | 565   | 395   |
| Full Simulation Period Average <sup>a</sup> | 1,774 | 1,696 | 940   | 499   | 270 | 252 | 352   | 491   | 750   | 935   | 1,439 | 1,752 |
| Wet Water Years (28%)                       | 387   | 728   | 717   | 185   | 180 | 182 | 185   | 208   | 299   | 341   | 601   | 412   |
| Above Normal Years (14%)                    | 374   | 828   | 773   | 322   | 189 | 184 | 193   | 242   | 365   | 359   | 600   | 423   |
| Below Normal Years (18%)                    | 2,253 | 1,874 | 735   | 390   | 231 | 201 | 237   | 315   | 568   | 597   | 1,108 | 2,090 |
| Dry Water Years (24%)                       | 2,710 | 2,194 | 1,099 | 706   | 290 | 247 | 275   | 374   | 637   | 998   | 1,964 | 2,760 |
| Critical Water Years (16%)                  | 3,688 | 3,362 | 1,517 | 1,015 | 514 | 500 | 1,027 | 1,579 | 2,250 | 2,761 | 3,221 | 3,368 |

**Table F.2.5-4-4c. Sacramento River at Emmaton Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec | Jan  | Feb | Mar | Apr  | May  | Jun | Jul | Aug  | Sep  |
|---------------------------------------------|-----|------|-----|------|-----|-----|------|------|-----|-----|------|------|
| 10% Exceedance                              | -69 | -217 | 37  | -46  | -37 | 4   | -194 | -109 | 185 | 305 | -1   | 16   |
| 20% Exceedance                              | 27  | 22   | 147 | -134 | -4  | 4   | 4    | 34   | 64  | 173 | 126  | 8    |
| 30% Exceedance                              | 3   | -7   | 35  | -10  | -8  | 0   | 4    | 32   | 18  | -7  | 143  | 84   |
| 40% Exceedance                              | -79 | -132 | -12 | 9    | -1  | 0   | 2    | 52   | 25  | -38 | -135 | -121 |
| 50% Exceedance                              | -33 | -21  | -51 | 0    | -1  | 0   | 0    | 27   | -10 | 49  | 31   | 145  |
| 60% Exceedance                              | 2   | -17  | 1   | -5   | 0   | 0   | -2   | 4    | -3  | 4   | 35   | -8   |
| 70% Exceedance                              | -6  | -4   | 0   | 0    | 0   | 0   | -1   | -1   | 22  | 23  | 26   | 2    |
| 80% Exceedance                              | -10 | -30  | -8  | 0    | 0   | 0   | -1   | -1   | -2  | 14  | 30   | 15   |
| 90% Exceedance                              | -5  | 8    | 0   | 0    | 0   | 0   | 0    | 0    | -2  | 7   | 45   | 9    |
| Full Simulation Period Average <sup>a</sup> | 2   | -40  | 1   | -38  | -8  | 1   | -6   | 0    | -1  | 14  | 26   | 13   |
| Wet Water Years (28%)                       | 2   | -1   | 15  | -1   | 0   | 0   | 0    | 6    | -2  | 10  | 35   | 11   |
| Above Normal Years (14%)                    | -12 | -28  | 0   | 0    | 0   | 0   | -1   | 12   | -5  | 22  | 34   | 3    |
| Below Normal Years (18%)                    | -9  | -105 | -10 | 4    | -3  | -1  | 3    | 36   | 8   | 2   | -50  | -9   |
| Dry Water Years (24%)                       | 30  | 16   | 22  | -41  | -15 | -2  | 5    | 17   | 33  | 58  | 100  | 57   |
| Critical Water Years (16%)                  | -16 | -140 | -42 | -179 | -26 | 11  | -48  | -90  | -54 | -40 | -24  | -19  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-4-5a. Sacramento River at Emmaton Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,634 | 3,517 | 1,944 | 1,284 | 485 | 423 | 721   | 1,237 | 2,283 | 2,572 | 3,111 | 3,342 |
| 20% Exceedance                              | 3,137 | 2,854 | 1,528 | 904   | 309 | 261 | 400   | 428   | 721   | 1,087 | 2,098 | 3,001 |
| 30% Exceedance                              | 2,815 | 2,549 | 1,339 | 469   | 231 | 204 | 253   | 391   | 651   | 912   | 1,859 | 2,668 |
| 40% Exceedance                              | 2,525 | 2,101 | 1,092 | 305   | 203 | 197 | 216   | 326   | 571   | 772   | 1,565 | 2,462 |
| 50% Exceedance                              | 2,189 | 1,153 | 684   | 250   | 194 | 193 | 203   | 245   | 489   | 519   | 997   | 1,926 |
| 60% Exceedance                              | 446   | 1,011 | 380   | 211   | 188 | 190 | 196   | 226   | 453   | 406   | 671   | 487   |
| 70% Exceedance                              | 417   | 919   | 270   | 187   | 184 | 184 | 189   | 199   | 382   | 360   | 617   | 437   |
| 80% Exceedance                              | 388   | 730   | 223   | 181   | 181 | 181 | 185   | 185   | 285   | 330   | 579   | 406   |
| 90% Exceedance                              | 358   | 357   | 187   | 179   | 179 | 179 | 180   | 178   | 210   | 315   | 520   | 386   |
| Full Simulation Period Average <sup>a</sup> | 1,772 | 1,737 | 939   | 537   | 278 | 251 | 358   | 491   | 750   | 921   | 1,413 | 1,739 |
| Wet Water Years (28%)                       | 386   | 729   | 703   | 187   | 180 | 182 | 185   | 202   | 300   | 331   | 566   | 401   |
| Above Normal Years (14%)                    | 386   | 855   | 773   | 322   | 189 | 184 | 193   | 230   | 369   | 337   | 566   | 420   |
| Below Normal Years (18%)                    | 2,262 | 1,979 | 745   | 386   | 233 | 202 | 234   | 279   | 560   | 596   | 1,159 | 2,098 |
| Dry Water Years (24%)                       | 2,679 | 2,178 | 1,078 | 747   | 304 | 248 | 270   | 356   | 604   | 940   | 1,864 | 2,702 |
| Critical Water Years (16%)                  | 3,704 | 3,502 | 1,559 | 1,194 | 540 | 488 | 1,076 | 1,668 | 2,305 | 2,802 | 3,246 | 3,388 |

**Table F.2.5-4-5b. Sacramento River at Emmaton Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec | Jan | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 1,514 | 1,318 | 694 | 299 | 254 | 278 | 586 | 855   | 1,813 | 2,127 | 2,599 | 1,850 |
| 20% Exceedance                              | 1,064 | 729   | 407 | 249 | 226 | 242 | 373 | 662   | 1,607 | 1,785 | 2,270 | 1,460 |
| 30% Exceedance                              | 841   | 590   | 283 | 227 | 216 | 217 | 306 | 492   | 1,403 | 1,558 | 2,016 | 1,227 |
| 40% Exceedance                              | 647   | 445   | 221 | 210 | 207 | 210 | 256 | 318   | 931   | 1,201 | 1,746 | 1,003 |
| 50% Exceedance                              | 584   | 368   | 199 | 199 | 198 | 200 | 228 | 258   | 605   | 870   | 1,421 | 928   |
| 60% Exceedance                              | 465   | 318   | 193 | 192 | 191 | 195 | 207 | 225   | 454   | 730   | 1,254 | 748   |
| 70% Exceedance                              | 406   | 273   | 190 | 188 | 186 | 189 | 197 | 211   | 340   | 566   | 1,061 | 605   |
| 80% Exceedance                              | 366   | 235   | 184 | 183 | 182 | 184 | 189 | 192   | 220   | 452   | 781   | 510   |
| 90% Exceedance                              | 325   | 212   | 180 | 179 | 179 | 180 | 181 | 176   | 189   | 376   | 578   | 336   |
| Full Simulation Period Average <sup>a</sup> | 732   | 584   | 343 | 273 | 228 | 226 | 317 | 432   | 892   | 1,138 | 1,555 | 998   |
| Wet Water Years (28%)                       | 397   | 280   | 202 | 184 | 182 | 187 | 191 | 196   | 278   | 438   | 749   | 492   |
| Above Normal Years (14%)                    | 470   | 366   | 208 | 197 | 190 | 190 | 209 | 235   | 471   | 589   | 1,023 | 678   |
| Below Normal Years (18%)                    | 608   | 464   | 309 | 206 | 211 | 208 | 257 | 356   | 916   | 1,029 | 1,457 | 875   |
| Dry Water Years (24%)                       | 839   | 623   | 421 | 262 | 222 | 225 | 309 | 479   | 1,215 | 1,506 | 2,031 | 1,240 |
| Critical Water Years (16%)                  | 1,599 | 1,448 | 655 | 585 | 371 | 348 | 712 | 1,035 | 1,826 | 2,416 | 2,827 | 1,938 |

**Table F.2.5-4-5c. Sacramento River at Emmaton Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|--------|--------|--------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -2,120 | -2,199 | -1,250 | -985 | -231 | -145 | -135 | -382 | -470 | -445 | -511 | -1,492 |
| 20% Exceedance                              | -2,073 | -2,125 | -1,121 | -655 | -83  | -19  | -28  | 234  | 886  | 698  | 171  | -1,541 |
| 30% Exceedance                              | -1,974 | -1,959 | -1,056 | -242 | -15  | 13   | 53   | 101  | 753  | 645  | 158  | -1,441 |
| 40% Exceedance                              | -1,878 | -1,656 | -871   | -94  | 3    | 12   | 41   | -8   | 360  | 429  | 181  | -1,459 |
| 50% Exceedance                              | -1,605 | -786   | -485   | -51  | 4    | 7    | 24   | 13   | 116  | 351  | 424  | -999   |
| 60% Exceedance                              | 19     | -693   | -187   | -19  | 3    | 5    | 12   | 0    | 2    | 324  | 584  | 260    |
| 70% Exceedance                              | -11    | -646   | -81    | 1    | 3    | 5    | 8    | 12   | -42  | 206  | 444  | 168    |
| 80% Exceedance                              | -22    | -495   | -39    | 1    | 1    | 3    | 4    | 7    | -65  | 122  | 202  | 104    |
| 90% Exceedance                              | -33    | -145   | -7     | 0    | 0    | 1    | 1    | -2   | -21  | 61   | 59   | -49    |
| Full Simulation Period Average <sup>a</sup> | -1,039 | -1,153 | -597   | -265 | -50  | -25  | -41  | -59  | 142  | 217  | 142  | -741   |
| Wet Water Years (28%)                       | 11     | -448   | -501   | -3   | 2    | 5    | 6    | -6   | -23  | 106  | 182  | 92     |
| Above Normal Years (14%)                    | 84     | -490   | -565   | -125 | 1    | 6    | 16   | 6    | 102  | 251  | 456  | 258    |
| Below Normal Years (18%)                    | -1,654 | -1,515 | -436   | -180 | -22  | 6    | 23   | 77   | 356  | 433  | 299  | -1,223 |
| Dry Water Years (24%)                       | -1,840 | -1,555 | -657   | -485 | -83  | -24  | 39   | 123  | 611  | 566  | 167  | -1,462 |
| Critical Water Years (16%)                  | -2,105 | -2,054 | -904   | -609 | -169 | -140 | -364 | -634 | -478 | -386 | -419 | -1,450 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-4-6a. Sacramento River at Emmaton Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug    | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|--------|-------|
| 10% Exceedance                              | 8,779 | 8,560 | 2,257 | 397   | 246 | 239 | 307 | 1,441 | 5,323 | 9,413 | 11,806 | 9,969 |
| 20% Exceedance                              | 7,346 | 4,092 | 1,056 | 297   | 220 | 223 | 240 | 610   | 3,564 | 8,226 | 10,978 | 8,852 |
| 30% Exceedance                              | 5,417 | 2,232 | 659   | 248   | 209 | 203 | 221 | 340   | 2,542 | 7,261 | 10,416 | 8,354 |
| 40% Exceedance                              | 3,048 | 1,313 | 395   | 223   | 202 | 200 | 208 | 275   | 1,555 | 5,811 | 9,706  | 7,240 |
| 50% Exceedance                              | 2,042 | 946   | 269   | 201   | 195 | 194 | 199 | 223   | 983   | 4,827 | 9,084  | 5,722 |
| 60% Exceedance                              | 1,185 | 697   | 227   | 196   | 190 | 190 | 191 | 205   | 575   | 3,716 | 8,140  | 3,738 |
| 70% Exceedance                              | 776   | 526   | 207   | 189   | 185 | 185 | 186 | 196   | 316   | 2,426 | 6,036  | 2,373 |
| 80% Exceedance                              | 579   | 299   | 193   | 183   | 182 | 182 | 183 | 186   | 208   | 1,351 | 3,644  | 1,608 |
| 90% Exceedance                              | 448   | 249   | 184   | 180   | 179 | 179 | 178 | 174   | 184   | 764   | 2,162  | 968   |
| Full Simulation Period Average <sup>a</sup> | 3,627 | 2,565 | 903   | 443   | 260 | 217 | 278 | 580   | 1,912 | 4,928 | 7,804  | 5,467 |
| Wet Water Years (28%)                       | 790   | 610   | 348   | 184   | 182 | 184 | 183 | 193   | 349   | 1,787 | 3,886  | 1,742 |
| Above Normal Years (14%)                    | 1,487 | 873   | 328   | 198   | 188 | 187 | 192 | 212   | 673   | 3,461 | 6,771  | 3,597 |
| Below Normal Years (18%)                    | 3,400 | 1,865 | 685   | 230   | 208 | 199 | 206 | 357   | 1,734 | 5,510 | 9,169  | 5,832 |
| Dry Water Years (24%)                       | 4,878 | 3,081 | 1,261 | 286   | 211 | 208 | 228 | 513   | 2,507 | 6,656 | 10,067 | 7,700 |
| Critical Water Years (16%)                  | 9,338 | 7,924 | 2,200 | 1,587 | 595 | 335 | 674 | 1,928 | 5,042 | 8,461 | 10,637 | 9,866 |

**Table F.2.5-4-6b. Sacramento River at Emmaton Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,802 | 3,056 | 2,096 | 1,259 | 448 | 335 | 456 | 802   | 1,107 | 1,666 | 2,696 | 3,376 |
| 20% Exceedance                              | 3,164 | 2,853 | 1,577 | 758   | 304 | 236 | 325 | 461   | 763   | 1,184 | 2,226 | 3,025 |
| 30% Exceedance                              | 2,822 | 2,535 | 1,359 | 420   | 228 | 204 | 255 | 423   | 663   | 908   | 1,986 | 2,761 |
| 40% Exceedance                              | 2,523 | 1,968 | 1,074 | 330   | 203 | 197 | 218 | 389   | 591   | 780   | 1,535 | 2,393 |
| 50% Exceedance                              | 2,142 | 1,132 | 629   | 252   | 193 | 193 | 203 | 272   | 479   | 568   | 1,029 | 2,132 |
| 60% Exceedance                              | 448   | 994   | 381   | 206   | 188 | 190 | 194 | 230   | 448   | 410   | 704   | 479   |
| 70% Exceedance                              | 411   | 914   | 265   | 186   | 184 | 184 | 188 | 199   | 404   | 383   | 642   | 440   |
| 80% Exceedance                              | 380   | 700   | 215   | 181   | 180 | 182 | 184 | 184   | 283   | 344   | 607   | 420   |
| 90% Exceedance                              | 358   | 365   | 188   | 179   | 179 | 179 | 180 | 178   | 209   | 321   | 566   | 395   |
| Full Simulation Period Average <sup>a</sup> | 1,803 | 1,659 | 937   | 530   | 271 | 241 | 278 | 408   | 658   | 808   | 1,368 | 1,771 |
| Wet Water Years (28%)                       | 387   | 728   | 719   | 185   | 180 | 182 | 185 | 208   | 299   | 341   | 601   | 411   |
| Above Normal Years (14%)                    | 377   | 828   | 772   | 323   | 189 | 184 | 193 | 242   | 365   | 359   | 602   | 423   |
| Below Normal Years (18%)                    | 2,274 | 1,879 | 727   | 395   | 231 | 201 | 237 | 315   | 567   | 602   | 1,158 | 2,138 |
| Dry Water Years (24%)                       | 2,709 | 2,201 | 1,079 | 698   | 289 | 247 | 275 | 374   | 637   | 1,001 | 1,969 | 2,762 |
| Critical Water Years (16%)                  | 3,854 | 3,098 | 1,532 | 1,216 | 520 | 427 | 568 | 1,061 | 1,680 | 1,958 | 2,713 | 3,433 |

**Table F.2.5-4-6c. Sacramento River at Emmaton Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr  | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|------|------|--------|--------|--------|--------|
| 10% Exceedance                              | -4,977 | -5,505 | -161 | 862  | 202 | 96  | 149  | -639 | -4,216 | -7,747 | -9,110 | -6,593 |
| 20% Exceedance                              | -4,182 | -1,239 | 520  | 461  | 84  | 13  | 86   | -148 | -2,802 | -7,042 | -8,752 | -5,827 |
| 30% Exceedance                              | -2,595 | 303    | 700  | 172  | 19  | 0   | 34   | 83   | -1,879 | -6,353 | -8,430 | -5,594 |
| 40% Exceedance                              | -525   | 655    | 678  | 107  | 0   | -2  | 10   | 114  | -964   | -5,030 | -8,172 | -4,847 |
| 50% Exceedance                              | 100    | 186    | 360  | 51   | -1  | -1  | 4    | 49   | -504   | -4,259 | -8,055 | -3,590 |
| 60% Exceedance                              | -737   | 297    | 154  | 10   | -2  | 0   | 3    | 25   | -126   | -3,306 | -7,436 | -3,259 |
| 70% Exceedance                              | -365   | 389    | 58   | -3   | -1  | -1  | 1    | 3    | 89     | -2,043 | -5,394 | -1,933 |
| 80% Exceedance                              | -199   | 401    | 22   | -1   | -1  | -1  | 1    | -2   | 76     | -1,007 | -3,037 | -1,188 |
| 90% Exceedance                              | -90    | 116    | 4    | -1   | 0   | 0   | 2    | 4    | 25     | -443   | -1,596 | -573   |
| Full Simulation Period Average <sup>a</sup> | -1,825 | -906   | 34   | 87   | 11  | 24  | 0    | -171 | -1,254 | -4,120 | -6,437 | -3,696 |
| Wet Water Years (28%)                       | -402   | 118    | 370  | 1    | -2  | -1  | 2    | 15   | -50    | -1,446 | -3,286 | -1,330 |
| Above Normal Years (14%)                    | -1,111 | -45    | 444  | 125  | 1   | -2  | 1    | 30   | -308   | -3,102 | -6,169 | -3,174 |
| Below Normal Years (18%)                    | -1,126 | 15     | 43   | 165  | 24  | 2   | 31   | -42  | -1,167 | -4,908 | -8,010 | -3,694 |
| Dry Water Years (24%)                       | -2,169 | -880   | -182 | 412  | 78  | 39  | 46   | -139 | -1,870 | -5,655 | -8,098 | -4,938 |
| Critical Water Years (16%)                  | -5,484 | -4,826 | -668 | -371 | -75 | 91  | -106 | -867 | -3,362 | -6,503 | -7,924 | -6,433 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-4-7a. Sacramento River at Emmaton Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug    | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|--------|-------|
| 10% Exceedance                              | 8,779 | 8,560 | 2,257 | 397   | 246 | 239 | 307 | 1,441 | 5,323 | 9,413 | 11,806 | 9,969 |
| 20% Exceedance                              | 7,346 | 4,092 | 1,056 | 297   | 220 | 223 | 240 | 610   | 3,564 | 8,226 | 10,978 | 8,852 |
| 30% Exceedance                              | 5,417 | 2,232 | 659   | 248   | 209 | 203 | 221 | 340   | 2,542 | 7,261 | 10,416 | 8,354 |
| 40% Exceedance                              | 3,048 | 1,313 | 395   | 223   | 202 | 200 | 208 | 275   | 1,555 | 5,811 | 9,706  | 7,240 |
| 50% Exceedance                              | 2,042 | 946   | 269   | 201   | 195 | 194 | 199 | 223   | 983   | 4,827 | 9,084  | 5,722 |
| 60% Exceedance                              | 1,185 | 697   | 227   | 196   | 190 | 190 | 191 | 205   | 575   | 3,716 | 8,140  | 3,738 |
| 70% Exceedance                              | 776   | 526   | 207   | 189   | 185 | 185 | 186 | 196   | 316   | 2,426 | 6,036  | 2,373 |
| 80% Exceedance                              | 579   | 299   | 193   | 183   | 182 | 182 | 183 | 186   | 208   | 1,351 | 3,644  | 1,608 |
| 90% Exceedance                              | 448   | 249   | 184   | 180   | 179 | 179 | 178 | 174   | 184   | 764   | 2,162  | 968   |
| Full Simulation Period Average <sup>a</sup> | 3,627 | 2,565 | 903   | 443   | 260 | 217 | 278 | 580   | 1,912 | 4,928 | 7,804  | 5,467 |
| Wet Water Years (28%)                       | 790   | 610   | 348   | 184   | 182 | 184 | 183 | 193   | 349   | 1,787 | 3,886  | 1,742 |
| Above Normal Years (14%)                    | 1,487 | 873   | 328   | 198   | 188 | 187 | 192 | 212   | 673   | 3,461 | 6,771  | 3,597 |
| Below Normal Years (18%)                    | 3,400 | 1,865 | 685   | 230   | 208 | 199 | 206 | 357   | 1,734 | 5,510 | 9,169  | 5,832 |
| Dry Water Years (24%)                       | 4,878 | 3,081 | 1,261 | 286   | 211 | 208 | 228 | 513   | 2,507 | 6,656 | 10,067 | 7,700 |
| Critical Water Years (16%)                  | 9,338 | 7,924 | 2,200 | 1,587 | 595 | 335 | 674 | 1,928 | 5,042 | 8,461 | 10,637 | 9,866 |

**Table F.2.5-4-7b. Sacramento River at Emmaton Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,814 | 3,163 | 1,941 | 1,304 | 464 | 326 | 433 | 808   | 1,110 | 1,616 | 2,675 | 3,381 |
| 20% Exceedance                              | 3,193 | 2,871 | 1,547 | 794   | 303 | 241 | 293 | 465   | 796   | 1,161 | 2,179 | 3,012 |
| 30% Exceedance                              | 2,804 | 2,571 | 1,340 | 423   | 226 | 204 | 255 | 431   | 685   | 917   | 1,883 | 2,791 |
| 40% Exceedance                              | 2,401 | 1,872 | 1,080 | 327   | 204 | 198 | 220 | 360   | 595   | 793   | 1,431 | 2,415 |
| 50% Exceedance                              | 2,172 | 1,153 | 640   | 261   | 193 | 195 | 203 | 273   | 494   | 571   | 1,024 | 2,088 |
| 60% Exceedance                              | 443   | 983   | 382   | 209   | 188 | 190 | 196 | 232   | 454   | 409   | 707   | 474   |
| 70% Exceedance                              | 413   | 875   | 268   | 187   | 184 | 184 | 189 | 202   | 402   | 371   | 640   | 436   |
| 80% Exceedance                              | 381   | 700   | 217   | 181   | 180 | 182 | 185 | 184   | 283   | 345   | 601   | 415   |
| 90% Exceedance                              | 357   | 377   | 187   | 179   | 179 | 179 | 180 | 178   | 210   | 317   | 561   | 395   |
| Full Simulation Period Average <sup>a</sup> | 1,803 | 1,662 | 940   | 541   | 291 | 238 | 276 | 407   | 664   | 797   | 1,338 | 1,768 |
| Wet Water Years (28%)                       | 388   | 718   | 724   | 186   | 180 | 183 | 185 | 208   | 302   | 338   | 597   | 409   |
| Above Normal Years (14%)                    | 378   | 817   | 757   | 323   | 189 | 185 | 195 | 235   | 373   | 353   | 594   | 417   |
| Below Normal Years (18%)                    | 2,231 | 1,854 | 721   | 398   | 233 | 200 | 231 | 319   | 575   | 613   | 1,106 | 2,123 |
| Dry Water Years (24%)                       | 2,720 | 2,205 | 1,050 | 713   | 291 | 234 | 265 | 369   | 644   | 988   | 1,909 | 2,778 |
| Critical Water Years (16%)                  | 3,888 | 3,168 | 1,611 | 1,254 | 640 | 428 | 571 | 1,062 | 1,680 | 1,910 | 2,692 | 3,410 |

**Table F.2.5-4-7c. Sacramento River at Emmaton Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr  | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|------|------|--------|--------|--------|--------|
| 10% Exceedance                              | -4,965 | -5,397 | -316 | 907  | 218 | 88  | 125  | -633 | -4,213 | -7,797 | -9,131 | -6,588 |
| 20% Exceedance                              | -4,154 | -1,221 | 490  | 497  | 83  | 18  | 54   | -145 | -2,768 | -7,065 | -8,798 | -5,839 |
| 30% Exceedance                              | -2,613 | 339    | 681  | 175  | 17  | 1   | 34   | 91   | -1,857 | -6,344 | -8,534 | -5,563 |
| 40% Exceedance                              | -647   | 559    | 684  | 105  | 1   | -1  | 12   | 85   | -960   | -5,017 | -8,276 | -4,825 |
| 50% Exceedance                              | 129    | 207    | 370  | 60   | -1  | 0   | 4    | 50   | -489   | -4,256 | -8,060 | -3,634 |
| 60% Exceedance                              | -742   | 286    | 155  | 13   | -2  | 0   | 5    | 27   | -121   | -3,307 | -7,433 | -3,264 |
| 70% Exceedance                              | -363   | 350    | 60   | -3   | -1  | -1  | 3    | 6    | 87     | -2,054 | -5,396 | -1,937 |
| 80% Exceedance                              | -198   | 401    | 24   | -1   | -1  | -1  | 2    | -1   | 75     | -1,006 | -3,043 | -1,193 |
| 90% Exceedance                              | -91    | 128    | 3    | -1   | 0   | 0   | 2    | 4    | 26     | -447   | -1,601 | -573   |
| Full Simulation Period Average <sup>a</sup> | -1,824 | -904   | 37   | 97   | 31  | 21  | -2   | -172 | -1,249 | -4,131 | -6,466 | -3,700 |
| Wet Water Years (28%)                       | -401   | 108    | 376  | 2    | -2  | -1  | 2    | 16   | -47    | -1,449 | -3,289 | -1,333 |
| Above Normal Years (14%)                    | -1,109 | -56    | 429  | 125  | 1   | -2  | 3    | 23   | -300   | -3,107 | -6,176 | -3,180 |
| Below Normal Years (18%)                    | -1,169 | -11    | 36   | 169  | 25  | 1   | 26   | -38  | -1,159 | -4,897 | -8,063 | -3,709 |
| Dry Water Years (24%)                       | -2,158 | -875   | -211 | 426  | 80  | 26  | 37   | -144 | -1,862 | -5,668 | -8,158 | -4,921 |
| Critical Water Years (16%)                  | -5,450 | -4,756 | -589 | -333 | 45  | 93  | -103 | -866 | -3,362 | -6,551 | -7,944 | -6,455 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-4-8a. Sacramento River at Emmaton Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug    | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|--------|-------|
| 10% Exceedance                              | 8,779 | 8,560 | 2,257 | 397   | 246 | 239 | 307 | 1,441 | 5,323 | 9,413 | 11,806 | 9,969 |
| 20% Exceedance                              | 7,346 | 4,092 | 1,056 | 297   | 220 | 223 | 240 | 610   | 3,564 | 8,226 | 10,978 | 8,852 |
| 30% Exceedance                              | 5,417 | 2,232 | 659   | 248   | 209 | 203 | 221 | 340   | 2,542 | 7,261 | 10,416 | 8,354 |
| 40% Exceedance                              | 3,048 | 1,313 | 395   | 223   | 202 | 200 | 208 | 275   | 1,555 | 5,811 | 9,706  | 7,240 |
| 50% Exceedance                              | 2,042 | 946   | 269   | 201   | 195 | 194 | 199 | 223   | 983   | 4,827 | 9,084  | 5,722 |
| 60% Exceedance                              | 1,185 | 697   | 227   | 196   | 190 | 190 | 191 | 205   | 575   | 3,716 | 8,140  | 3,738 |
| 70% Exceedance                              | 776   | 526   | 207   | 189   | 185 | 185 | 186 | 196   | 316   | 2,426 | 6,036  | 2,373 |
| 80% Exceedance                              | 579   | 299   | 193   | 183   | 182 | 182 | 183 | 186   | 208   | 1,351 | 3,644  | 1,608 |
| 90% Exceedance                              | 448   | 249   | 184   | 180   | 179 | 179 | 178 | 174   | 184   | 764   | 2,162  | 968   |
| Full Simulation Period Average <sup>a</sup> | 3,627 | 2,565 | 903   | 443   | 260 | 217 | 278 | 580   | 1,912 | 4,928 | 7,804  | 5,467 |
| Wet Water Years (28%)                       | 790   | 610   | 348   | 184   | 182 | 184 | 183 | 193   | 349   | 1,787 | 3,886  | 1,742 |
| Above Normal Years (14%)                    | 1,487 | 873   | 328   | 198   | 188 | 187 | 192 | 212   | 673   | 3,461 | 6,771  | 3,597 |
| Below Normal Years (18%)                    | 3,400 | 1,865 | 685   | 230   | 208 | 199 | 206 | 357   | 1,734 | 5,510 | 9,169  | 5,832 |
| Dry Water Years (24%)                       | 4,878 | 3,081 | 1,261 | 286   | 211 | 208 | 228 | 513   | 2,507 | 6,656 | 10,067 | 7,700 |
| Critical Water Years (16%)                  | 9,338 | 7,924 | 2,200 | 1,587 | 595 | 335 | 674 | 1,928 | 5,042 | 8,461 | 10,637 | 9,866 |

**Table F.2.5-4-8b. Sacramento River at Emmaton Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 3,789 | 3,252 | 1,945 | 1,292 | 440 | 320 | 403 | 677 | 1,058 | 1,561 | 2,647 | 3,349 |
| 20% Exceedance                              | 3,171 | 2,878 | 1,524 | 872   | 300 | 240 | 273 | 409 | 741   | 1,195 | 2,171 | 3,018 |
| 30% Exceedance                              | 2,856 | 2,573 | 1,332 | 427   | 222 | 204 | 228 | 369 | 669   | 929   | 1,877 | 2,781 |
| 40% Exceedance                              | 2,448 | 1,931 | 1,076 | 326   | 201 | 198 | 208 | 314 | 567   | 796   | 1,417 | 2,391 |
| 50% Exceedance                              | 2,156 | 1,152 | 640   | 259   | 194 | 194 | 198 | 238 | 498   | 583   | 1,004 | 2,067 |
| 60% Exceedance                              | 442   | 974   | 382   | 210   | 188 | 190 | 193 | 213 | 454   | 402   | 708   | 473   |
| 70% Exceedance                              | 412   | 868   | 261   | 186   | 184 | 184 | 189 | 196 | 392   | 371   | 628   | 436   |
| 80% Exceedance                              | 380   | 701   | 215   | 181   | 180 | 182 | 185 | 184 | 282   | 339   | 594   | 412   |
| 90% Exceedance                              | 357   | 374   | 186   | 179   | 179 | 179 | 180 | 178 | 212   | 319   | 556   | 394   |
| Full Simulation Period Average <sup>a</sup> | 1,794 | 1,684 | 941   | 546   | 295 | 236 | 258 | 359 | 635   | 793   | 1,330 | 1,750 |
| Wet Water Years (28%)                       | 387   | 717   | 723   | 186   | 180 | 183 | 185 | 207 | 302   | 337   | 594   | 409   |
| Above Normal Years (14%)                    | 377   | 814   | 753   | 322   | 189 | 185 | 193 | 217 | 368   | 352   | 583   | 416   |
| Below Normal Years (18%)                    | 2,231 | 1,904 | 706   | 394   | 233 | 200 | 211 | 268 | 569   | 612   | 1,097 | 2,061 |
| Dry Water Years (24%)                       | 2,702 | 2,141 | 1,050 | 692   | 295 | 232 | 241 | 325 | 618   | 1,000 | 1,908 | 2,774 |
| Critical Water Years (16%)                  | 3,863 | 3,362 | 1,643 | 1,324 | 662 | 422 | 522 | 903 | 1,551 | 1,870 | 2,664 | 3,377 |

**Table F.2.5-4-8c. Sacramento River at Emmaton Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr  | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | -4,990 | -5,308 | -312 | 895  | 194 | 81  | 95   | -764   | -4,265 | -7,852 | -9,159 | -6,620 |
| 20% Exceedance                              | -4,175 | -1,214 | 468  | 574  | 80  | 17  | 34   | -200   | -2,823 | -7,031 | -8,807 | -5,833 |
| 30% Exceedance                              | -2,561 | 341    | 673  | 179  | 13  | 1   | 7    | 29     | -1,874 | -6,331 | -8,539 | -5,573 |
| 40% Exceedance                              | -600   | 618    | 681  | 103  | -1  | -2  | 0    | 39     | -988   | -5,014 | -8,290 | -4,849 |
| 50% Exceedance                              | 114    | 206    | 370  | 58   | -1  | 0   | -1   | 15     | -485   | -4,243 | -8,080 | -3,655 |
| 60% Exceedance                              | -743   | 277    | 155  | 14   | -2  | 0   | 2    | 8      | -121   | -3,314 | -7,432 | -3,264 |
| 70% Exceedance                              | -365   | 342    | 54   | -3   | -1  | -1  | 2    | 0      | 77     | -2,055 | -5,408 | -1,937 |
| 80% Exceedance                              | -199   | 401    | 22   | -1   | -1  | -1  | 2    | -2     | 74     | -1,011 | -3,050 | -1,196 |
| 90% Exceedance                              | -91    | 124    | 3    | -1   | 0   | 0   | 2    | 4      | 28     | -445   | -1,606 | -573   |
| Full Simulation Period Average <sup>a</sup> | -1,833 | -882   | 38   | 103  | 35  | 19  | -20  | -221   | -1,277 | -4,134 | -6,475 | -3,718 |
| Wet Water Years (28%)                       | -402   | 108    | 375  | 2    | -2  | -1  | 2    | 14     | -47    | -1,450 | -3,292 | -1,333 |
| Above Normal Years (14%)                    | -1,110 | -59    | 425  | 124  | 1   | -2  | 1    | 4      | -305   | -3,109 | -6,187 | -3,181 |
| Below Normal Years (18%)                    | -1,169 | 39     | 22   | 164  | 25  | 1   | 5    | -89    | -1,165 | -4,897 | -8,071 | -3,771 |
| Dry Water Years (24%)                       | -2,176 | -940   | -211 | 406  | 84  | 23  | 13   | -188   | -1,889 | -5,655 | -8,159 | -4,926 |
| Critical Water Years (16%)                  | -5,475 | -4,562 | -558 | -263 | 67  | 87  | -152 | -1,025 | -3,491 | -6,591 | -7,973 | -6,488 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-4-9a. Sacramento River at Emmaton Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug    | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|--------|-------|
| 10% Exceedance                              | 8,779 | 8,560 | 2,257 | 397   | 246 | 239 | 307 | 1,441 | 5,323 | 9,413 | 11,806 | 9,969 |
| 20% Exceedance                              | 7,346 | 4,092 | 1,056 | 297   | 220 | 223 | 240 | 610   | 3,564 | 8,226 | 10,978 | 8,852 |
| 30% Exceedance                              | 5,417 | 2,232 | 659   | 248   | 209 | 203 | 221 | 340   | 2,542 | 7,261 | 10,416 | 8,354 |
| 40% Exceedance                              | 3,048 | 1,313 | 395   | 223   | 202 | 200 | 208 | 275   | 1,555 | 5,811 | 9,706  | 7,240 |
| 50% Exceedance                              | 2,042 | 946   | 269   | 201   | 195 | 194 | 199 | 223   | 983   | 4,827 | 9,084  | 5,722 |
| 60% Exceedance                              | 1,185 | 697   | 227   | 196   | 190 | 190 | 191 | 205   | 575   | 3,716 | 8,140  | 3,738 |
| 70% Exceedance                              | 776   | 526   | 207   | 189   | 185 | 185 | 186 | 196   | 316   | 2,426 | 6,036  | 2,373 |
| 80% Exceedance                              | 579   | 299   | 193   | 183   | 182 | 182 | 183 | 186   | 208   | 1,351 | 3,644  | 1,608 |
| 90% Exceedance                              | 448   | 249   | 184   | 180   | 179 | 179 | 178 | 174   | 184   | 764   | 2,162  | 968   |
| Full Simulation Period Average <sup>a</sup> | 3,627 | 2,565 | 903   | 443   | 260 | 217 | 278 | 580   | 1,912 | 4,928 | 7,804  | 5,467 |
| Wet Water Years (28%)                       | 790   | 610   | 348   | 184   | 182 | 184 | 183 | 193   | 349   | 1,787 | 3,886  | 1,742 |
| Above Normal Years (14%)                    | 1,487 | 873   | 328   | 198   | 188 | 187 | 192 | 212   | 673   | 3,461 | 6,771  | 3,597 |
| Below Normal Years (18%)                    | 3,400 | 1,865 | 685   | 230   | 208 | 199 | 206 | 357   | 1,734 | 5,510 | 9,169  | 5,832 |
| Dry Water Years (24%)                       | 4,878 | 3,081 | 1,261 | 286   | 211 | 208 | 228 | 513   | 2,507 | 6,656 | 10,067 | 7,700 |
| Critical Water Years (16%)                  | 9,338 | 7,924 | 2,200 | 1,587 | 595 | 335 | 674 | 1,928 | 5,042 | 8,461 | 10,637 | 9,866 |

**Table F.2.5-4-9b. Sacramento River at Emmaton Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,566 | 3,300 | 1,981 | 1,238 | 448 | 428 | 527   | 1,128 | 2,467 | 2,877 | 3,110 | 3,358 |
| 20% Exceedance                              | 3,164 | 2,876 | 1,675 | 770   | 304 | 265 | 404   | 461   | 785   | 1,260 | 2,224 | 3,009 |
| 30% Exceedance                              | 2,818 | 2,542 | 1,374 | 459   | 222 | 204 | 256   | 423   | 669   | 905   | 2,002 | 2,752 |
| 40% Exceedance                              | 2,446 | 1,968 | 1,080 | 314   | 202 | 197 | 218   | 378   | 596   | 735   | 1,430 | 2,341 |
| 50% Exceedance                              | 2,156 | 1,132 | 632   | 251   | 193 | 193 | 203   | 272   | 479   | 568   | 1,028 | 2,071 |
| 60% Exceedance                              | 448   | 994   | 381   | 206   | 188 | 190 | 194   | 230   | 449   | 410   | 706   | 479   |
| 70% Exceedance                              | 411   | 914   | 271   | 186   | 184 | 184 | 188   | 199   | 404   | 383   | 643   | 440   |
| 80% Exceedance                              | 379   | 700   | 215   | 181   | 180 | 181 | 184   | 184   | 283   | 344   | 609   | 421   |
| 90% Exceedance                              | 353   | 365   | 188   | 179   | 179 | 179 | 180   | 178   | 208   | 321   | 565   | 395   |
| Full Simulation Period Average <sup>a</sup> | 1,774 | 1,696 | 940   | 499   | 270 | 252 | 352   | 491   | 750   | 935   | 1,439 | 1,752 |
| Wet Water Years (28%)                       | 387   | 728   | 717   | 185   | 180 | 182 | 185   | 208   | 299   | 341   | 601   | 412   |
| Above Normal Years (14%)                    | 374   | 828   | 773   | 322   | 189 | 184 | 193   | 242   | 365   | 359   | 600   | 423   |
| Below Normal Years (18%)                    | 2,253 | 1,874 | 735   | 390   | 231 | 201 | 237   | 315   | 568   | 597   | 1,108 | 2,090 |
| Dry Water Years (24%)                       | 2,710 | 2,194 | 1,099 | 706   | 290 | 247 | 275   | 374   | 637   | 998   | 1,964 | 2,760 |
| Critical Water Years (16%)                  | 3,688 | 3,362 | 1,517 | 1,015 | 514 | 500 | 1,027 | 1,579 | 2,250 | 2,761 | 3,221 | 3,368 |

**Table F.2.5-4-9c. Sacramento River at Emmaton Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -5,213 | -5,260 | -277 | 841  | 202 | 189 | 219 | -313 | -2,856 | -6,536 | -8,696 | -6,611 |
| 20% Exceedance                              | -4,182 | -1,216 | 618  | 473  | 84  | 43  | 165 | -148 | -2,779 | -6,966 | -8,754 | -5,842 |
| 30% Exceedance                              | -2,599 | 310    | 715  | 211  | 13  | 0   | 36  | 83   | -1,874 | -6,355 | -8,415 | -5,602 |
| 40% Exceedance                              | -602   | 655    | 685  | 91   | 0   | -3  | 10  | 102  | -959   | -5,076 | -8,277 | -4,899 |
| 50% Exceedance                              | 114    | 186    | 363  | 50   | -1  | -1  | 4   | 49   | -504   | -4,258 | -8,055 | -3,651 |
| 60% Exceedance                              | -737   | 297    | 154  | 10   | -2  | 0   | 3   | 24   | -126   | -3,306 | -7,434 | -3,258 |
| 70% Exceedance                              | -365   | 389    | 63   | -3   | -1  | -1  | 1   | 3    | 89     | -2,042 | -5,393 | -1,933 |
| 80% Exceedance                              | -200   | 401    | 22   | -1   | -1  | -1  | 1   | -2   | 75     | -1,007 | -3,035 | -1,187 |
| 90% Exceedance                              | -95    | 115    | 4    | -1   | 0   | 0   | 2   | 4    | 24     | -443   | -1,597 | -573   |
| Full Simulation Period Average <sup>a</sup> | -1,854 | -869   | 38   | 56   | 10  | 35  | 74  | -89  | -1,163 | -3,993 | -6,366 | -3,716 |
| Wet Water Years (28%)                       | -402   | 118    | 369  | 1    | -2  | -1  | 2   | 15   | -50    | -1,446 | -3,285 | -1,330 |
| Above Normal Years (14%)                    | -1,113 | -45    | 444  | 125  | 1   | -2  | 1   | 30   | -309   | -3,102 | -6,170 | -3,175 |
| Below Normal Years (18%)                    | -1,147 | 9      | 51   | 160  | 23  | 2   | 31  | -43  | -1,166 | -4,912 | -8,061 | -3,742 |
| Dry Water Years (24%)                       | -2,168 | -887   | -161 | 420  | 78  | 39  | 46  | -139 | -1,870 | -5,658 | -8,103 | -4,940 |
| Critical Water Years (16%)                  | -5,650 | -4,562 | -684 | -572 | -81 | 164 | 353 | -349 | -2,792 | -5,700 | -7,415 | -6,497 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-4-10a. Sacramento River at Emmaton Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May   | Jun   | Jul   | Aug    | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-------|-------|-------|--------|-------|
| 10% Exceedance                              | 8,779 | 8,560 | 2,257 | 397   | 246 | 239 | 307 | 1,441 | 5,323 | 9,413 | 11,806 | 9,969 |
| 20% Exceedance                              | 7,346 | 4,092 | 1,056 | 297   | 220 | 223 | 240 | 610   | 3,564 | 8,226 | 10,978 | 8,852 |
| 30% Exceedance                              | 5,417 | 2,232 | 659   | 248   | 209 | 203 | 221 | 340   | 2,542 | 7,261 | 10,416 | 8,354 |
| 40% Exceedance                              | 3,048 | 1,313 | 395   | 223   | 202 | 200 | 208 | 275   | 1,555 | 5,811 | 9,706  | 7,240 |
| 50% Exceedance                              | 2,042 | 946   | 269   | 201   | 195 | 194 | 199 | 223   | 983   | 4,827 | 9,084  | 5,722 |
| 60% Exceedance                              | 1,185 | 697   | 227   | 196   | 190 | 190 | 191 | 205   | 575   | 3,716 | 8,140  | 3,738 |
| 70% Exceedance                              | 776   | 526   | 207   | 189   | 185 | 185 | 186 | 196   | 316   | 2,426 | 6,036  | 2,373 |
| 80% Exceedance                              | 579   | 299   | 193   | 183   | 182 | 182 | 183 | 186   | 208   | 1,351 | 3,644  | 1,608 |
| 90% Exceedance                              | 448   | 249   | 184   | 180   | 179 | 179 | 178 | 174   | 184   | 764   | 2,162  | 968   |
| Full Simulation Period Average <sup>a</sup> | 3,627 | 2,565 | 903   | 443   | 260 | 217 | 278 | 580   | 1,912 | 4,928 | 7,804  | 5,467 |
| Wet Water Years (28%)                       | 790   | 610   | 348   | 184   | 182 | 184 | 183 | 193   | 349   | 1,787 | 3,886  | 1,742 |
| Above Normal Years (14%)                    | 1,487 | 873   | 328   | 198   | 188 | 187 | 192 | 212   | 673   | 3,461 | 6,771  | 3,597 |
| Below Normal Years (18%)                    | 3,400 | 1,865 | 685   | 230   | 208 | 199 | 206 | 357   | 1,734 | 5,510 | 9,169  | 5,832 |
| Dry Water Years (24%)                       | 4,878 | 3,081 | 1,261 | 286   | 211 | 208 | 228 | 513   | 2,507 | 6,656 | 10,067 | 7,700 |
| Critical Water Years (16%)                  | 9,338 | 7,924 | 2,200 | 1,587 | 595 | 335 | 674 | 1,928 | 5,042 | 8,461 | 10,637 | 9,866 |

**Table F.2.5-4-10b. Sacramento River at Emmaton Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 3,634 | 3,517 | 1,944 | 1,284 | 485 | 423 | 721   | 1,237 | 2,283 | 2,572 | 3,111 | 3,342 |
| 20% Exceedance                              | 3,137 | 2,854 | 1,528 | 904   | 309 | 261 | 400   | 428   | 721   | 1,087 | 2,098 | 3,001 |
| 30% Exceedance                              | 2,815 | 2,549 | 1,339 | 469   | 231 | 204 | 253   | 391   | 651   | 912   | 1,859 | 2,668 |
| 40% Exceedance                              | 2,525 | 2,101 | 1,092 | 305   | 203 | 197 | 216   | 326   | 571   | 772   | 1,565 | 2,462 |
| 50% Exceedance                              | 2,189 | 1,153 | 684   | 250   | 194 | 193 | 203   | 245   | 489   | 519   | 997   | 1,926 |
| 60% Exceedance                              | 446   | 1,011 | 380   | 211   | 188 | 190 | 196   | 226   | 453   | 406   | 671   | 487   |
| 70% Exceedance                              | 417   | 919   | 270   | 187   | 184 | 184 | 189   | 199   | 382   | 360   | 617   | 437   |
| 80% Exceedance                              | 388   | 730   | 223   | 181   | 181 | 181 | 185   | 185   | 285   | 330   | 579   | 406   |
| 90% Exceedance                              | 358   | 357   | 187   | 179   | 179 | 179 | 180   | 178   | 210   | 315   | 520   | 386   |
| Full Simulation Period Average <sup>a</sup> | 1,772 | 1,737 | 939   | 537   | 278 | 251 | 358   | 491   | 750   | 921   | 1,413 | 1,739 |
| Wet Water Years (28%)                       | 386   | 729   | 703   | 187   | 180 | 182 | 185   | 202   | 300   | 331   | 566   | 401   |
| Above Normal Years (14%)                    | 386   | 855   | 773   | 322   | 189 | 184 | 193   | 230   | 369   | 337   | 566   | 420   |
| Below Normal Years (18%)                    | 2,262 | 1,979 | 745   | 386   | 233 | 202 | 234   | 279   | 560   | 596   | 1,159 | 2,098 |
| Dry Water Years (24%)                       | 2,679 | 2,178 | 1,078 | 747   | 304 | 248 | 270   | 356   | 604   | 940   | 1,864 | 2,702 |
| Critical Water Years (16%)                  | 3,704 | 3,502 | 1,559 | 1,194 | 540 | 488 | 1,076 | 1,668 | 2,305 | 2,802 | 3,246 | 3,388 |

**Table F.2.5-4-10c. Sacramento River at Emmaton Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -5,145 | -5,043 | -313 | 887  | 239 | 185 | 414 | -204 | -3,041 | -6,841 | -8,695 | -6,627 |
| 20% Exceedance                              | -4,209 | -1,239 | 471  | 607  | 89  | 38  | 161 | -182 | -2,843 | -7,139 | -8,879 | -5,850 |
| 30% Exceedance                              | -2,602 | 317    | 680  | 221  | 22  | 1   | 32  | 52   | -1,892 | -6,348 | -8,558 | -5,686 |
| 40% Exceedance                              | -523   | 788    | 697  | 82   | 1   | -2  | 8   | 51   | -984   | -5,038 | -8,142 | -4,778 |
| 50% Exceedance                              | 147    | 207    | 414  | 49   | -1  | -1  | 4   | 22   | -494   | -4,307 | -8,087 | -3,795 |
| 60% Exceedance                              | -739   | 314    | 153  | 15   | -2  | 0   | 5   | 20   | -122   | -3,310 | -7,469 | -3,250 |
| 70% Exceedance                              | -359   | 393    | 63   | -3   | -1  | -1  | 2   | 3    | 67     | -2,065 | -5,419 | -1,936 |
| 80% Exceedance                              | -191   | 430    | 30   | -1   | -1  | -1  | 2   | -1   | 77     | -1,021 | -3,065 | -1,202 |
| 90% Exceedance                              | -90    | 108    | 4    | -1   | 0   | 0   | 2   | 4    | 26     | -449   | -1,642 | -582   |
| Full Simulation Period Average <sup>a</sup> | -1,856 | -829   | 37   | 94   | 18  | 34  | 80  | -88  | -1,162 | -4,007 | -6,391 | -3,728 |
| Wet Water Years (28%)                       | -404   | 119    | 354  | 2    | -2  | -1  | 2   | 9    | -49    | -1,455 | -3,320 | -1,341 |
| Above Normal Years (14%)                    | -1,101 | -17    | 445  | 125  | 1   | -2  | 2   | 18   | -304   | -3,123 | -6,204 | -3,177 |
| Below Normal Years (18%)                    | -1,138 | 115    | 60   | 156  | 26  | 2   | 28  | -78  | -1,174 | -4,914 | -8,010 | -3,733 |
| Dry Water Years (24%)                       | -2,199 | -903   | -183 | 461  | 93  | 40  | 42  | -157 | -1,903 | -5,716 | -8,203 | -4,997 |
| Critical Water Years (16%)                  | -5,634 | -4,423 | -642 | -393 | -55 | 153 | 402 | -260 | -2,737 | -5,660 | -7,391 | -6,478 |

<sup>a</sup> Based on the 100-year simulation period.

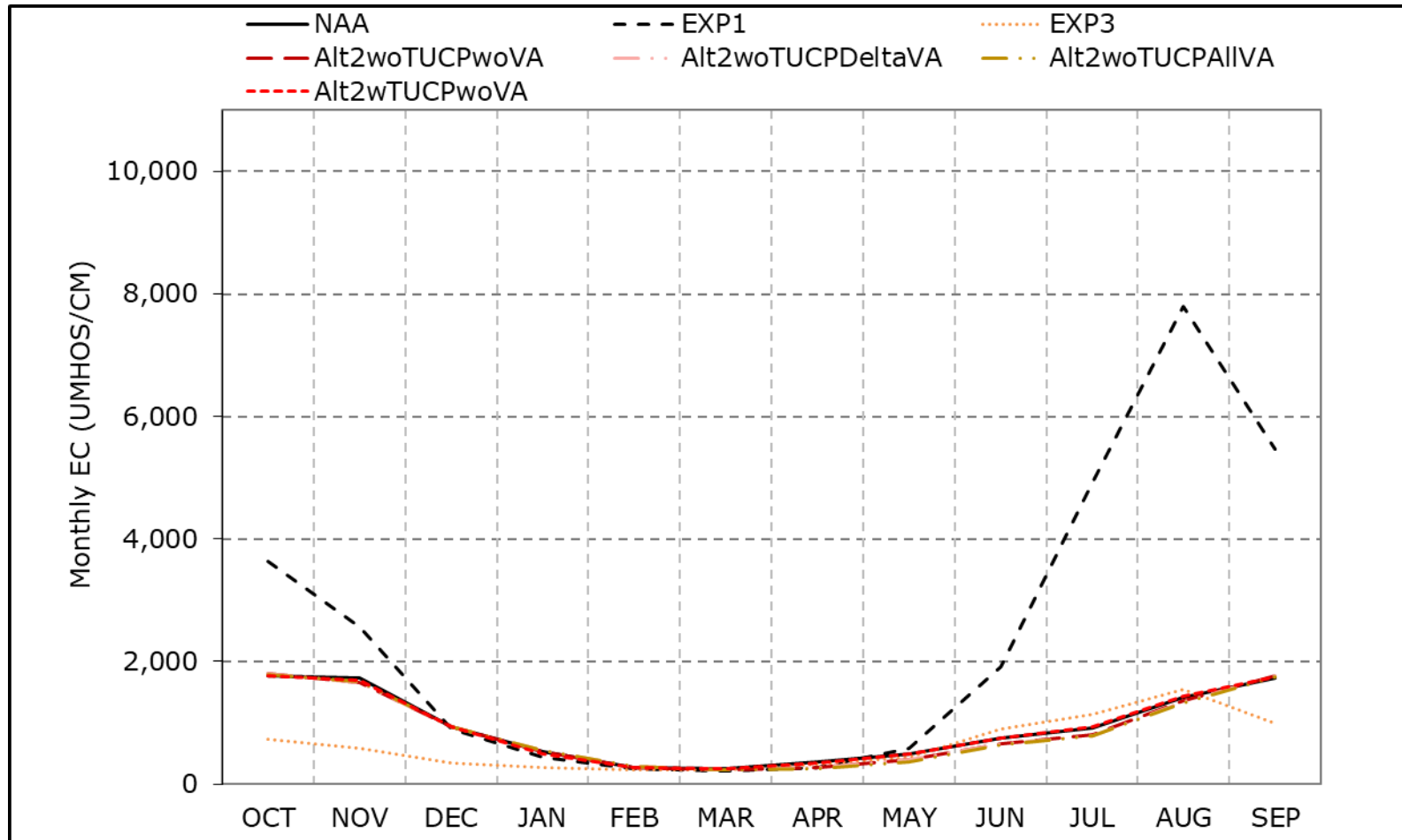
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-4-1. Sacramento River at Emmaton Salinity, Long-Term Average EC**

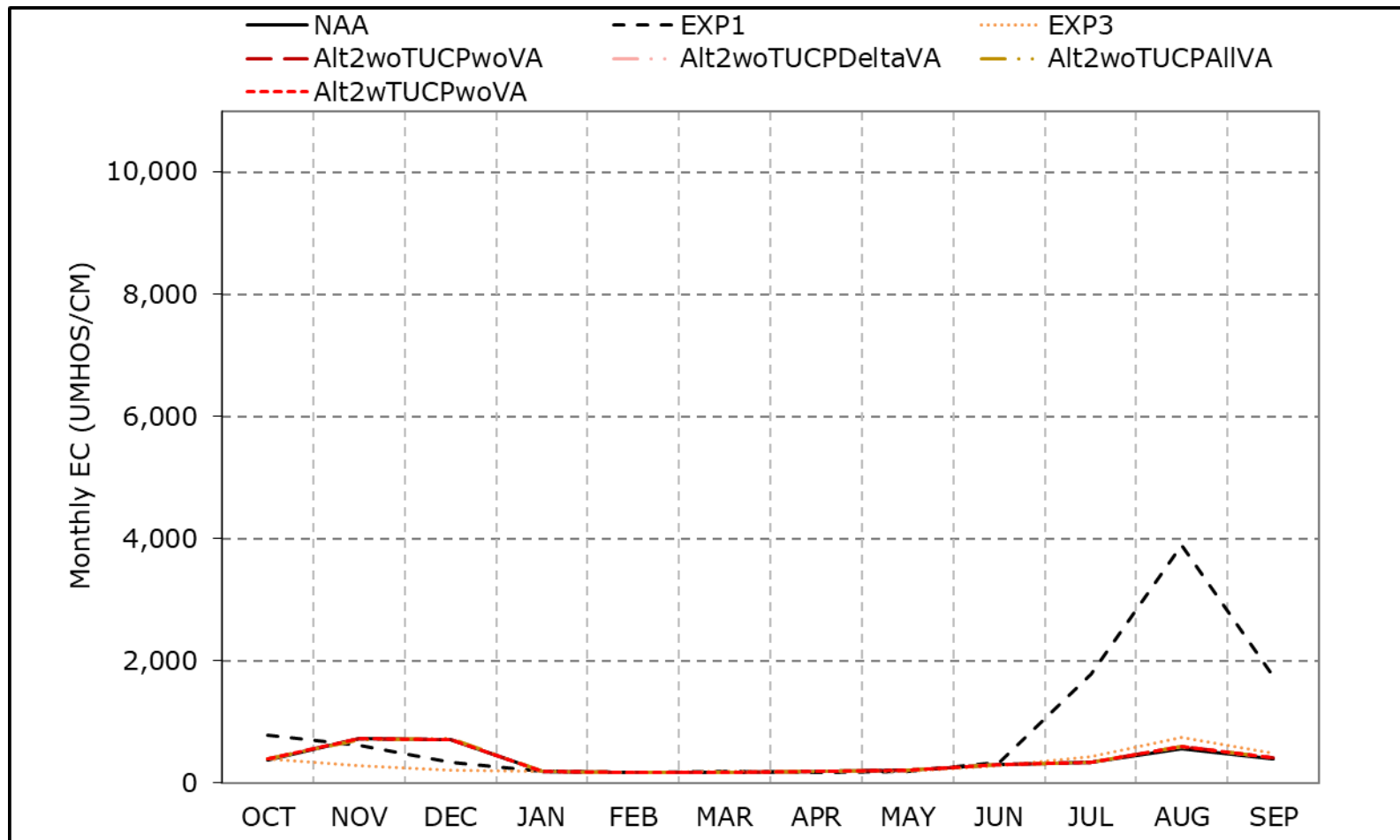


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-2. Sacramento River at Emmaton Salinity, Wet Year Average EC**

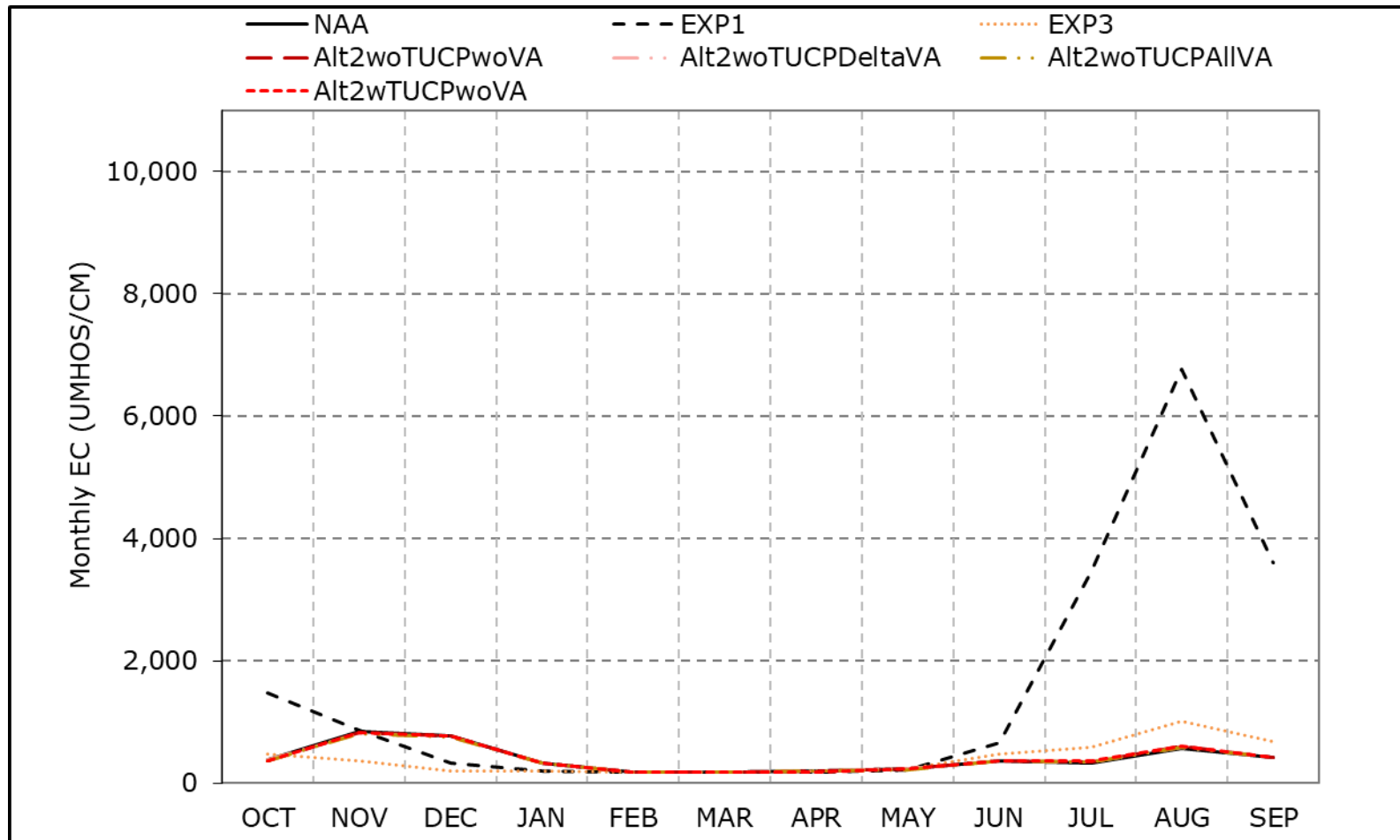


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-3. Sacramento River at Emmaton Salinity, Above Normal Year Average EC**

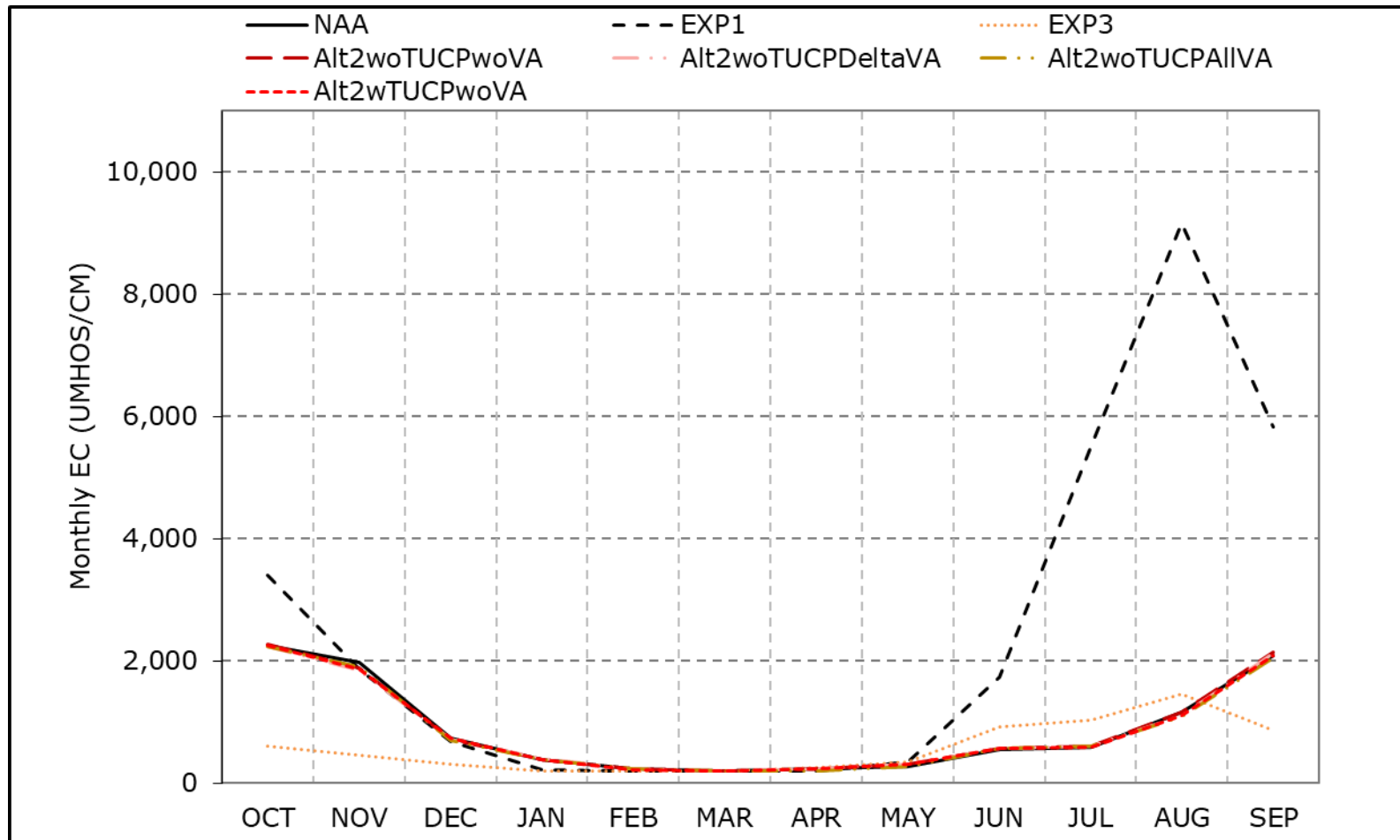


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-4. Sacramento River at Emmaton Salinity, Below Normal Year Average EC**

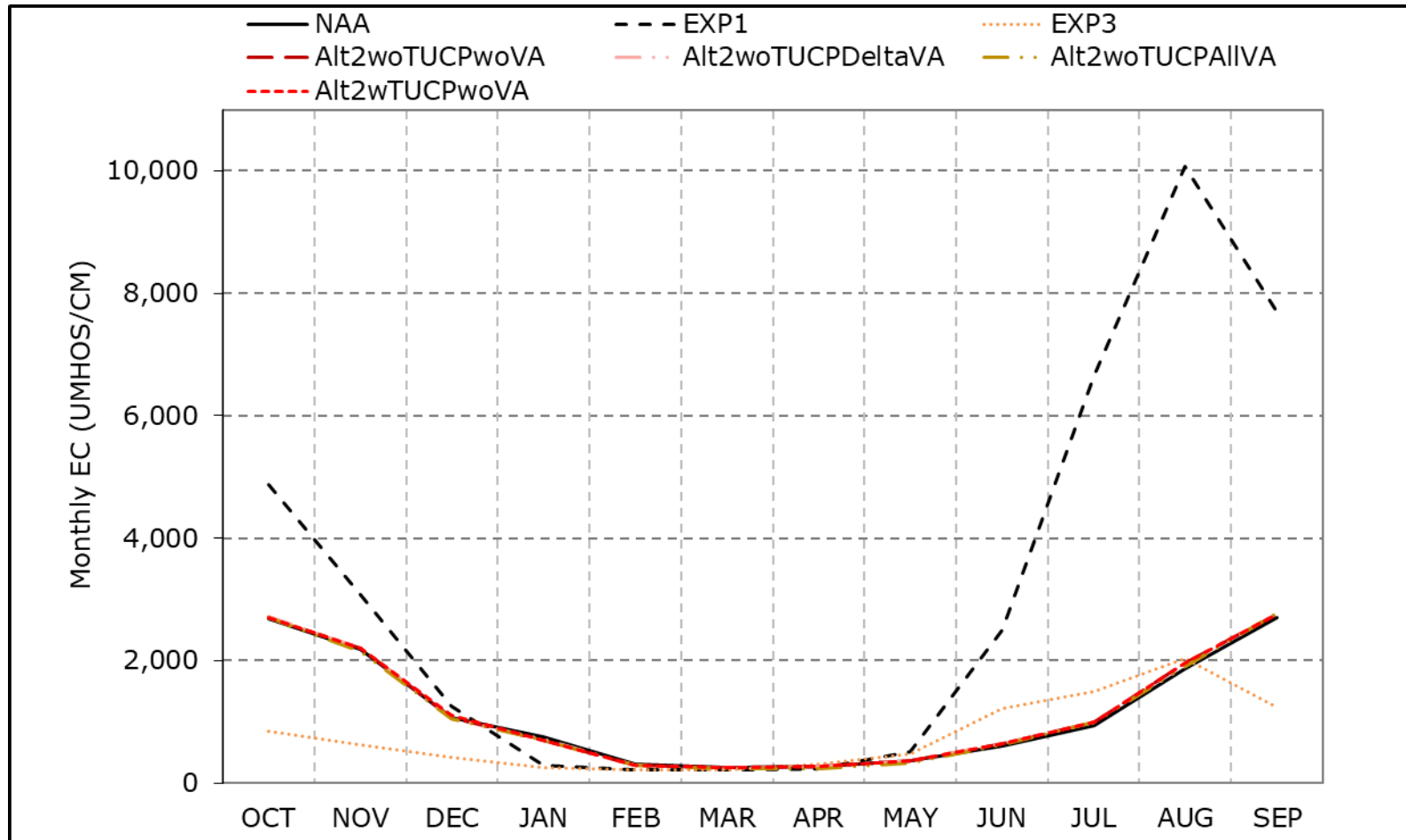


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-5. Sacramento River at Emmaton Salinity, Dry Year Average EC**

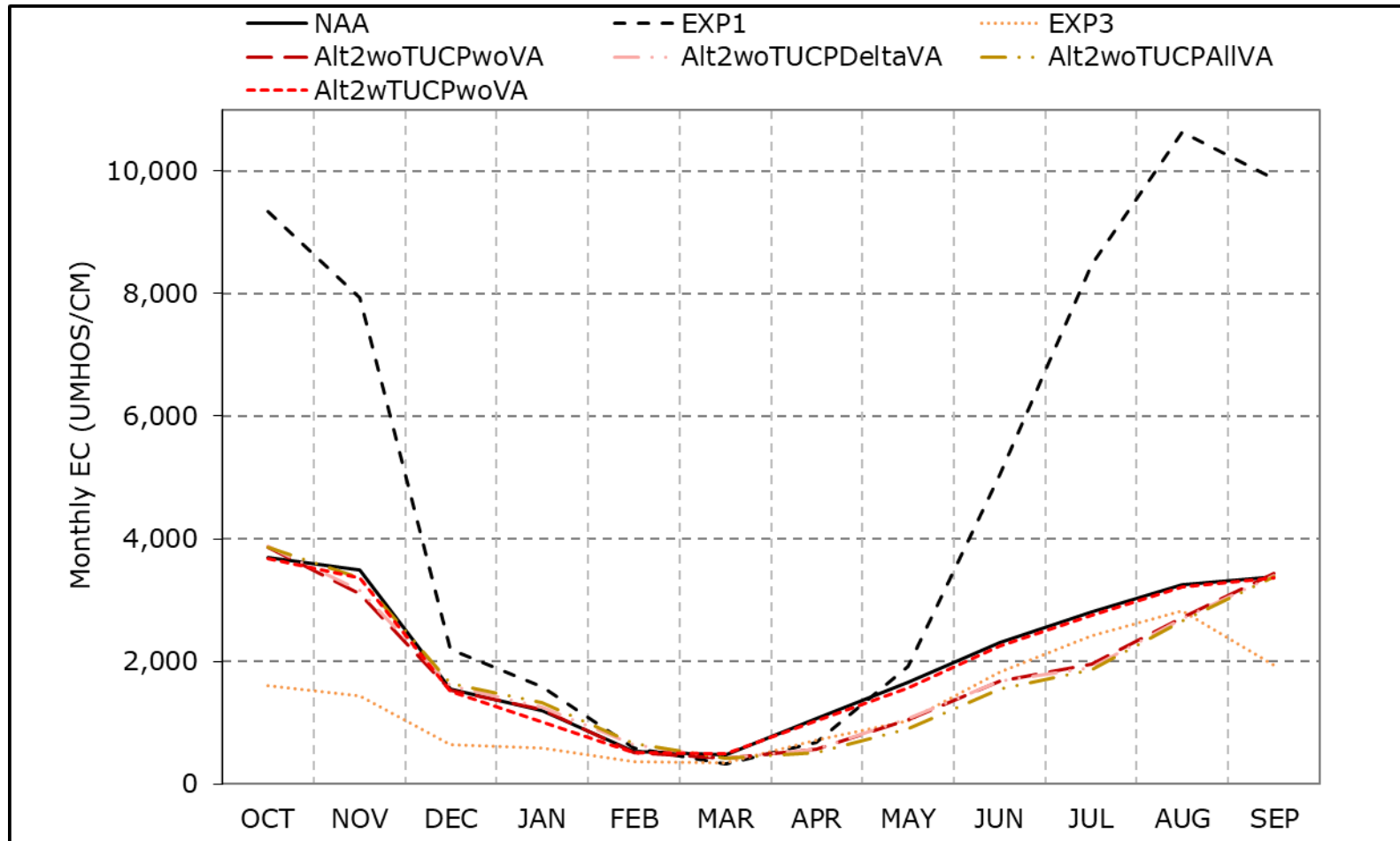


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-6. Sacramento River at Emmaton Salinity, Critical Year Average EC**

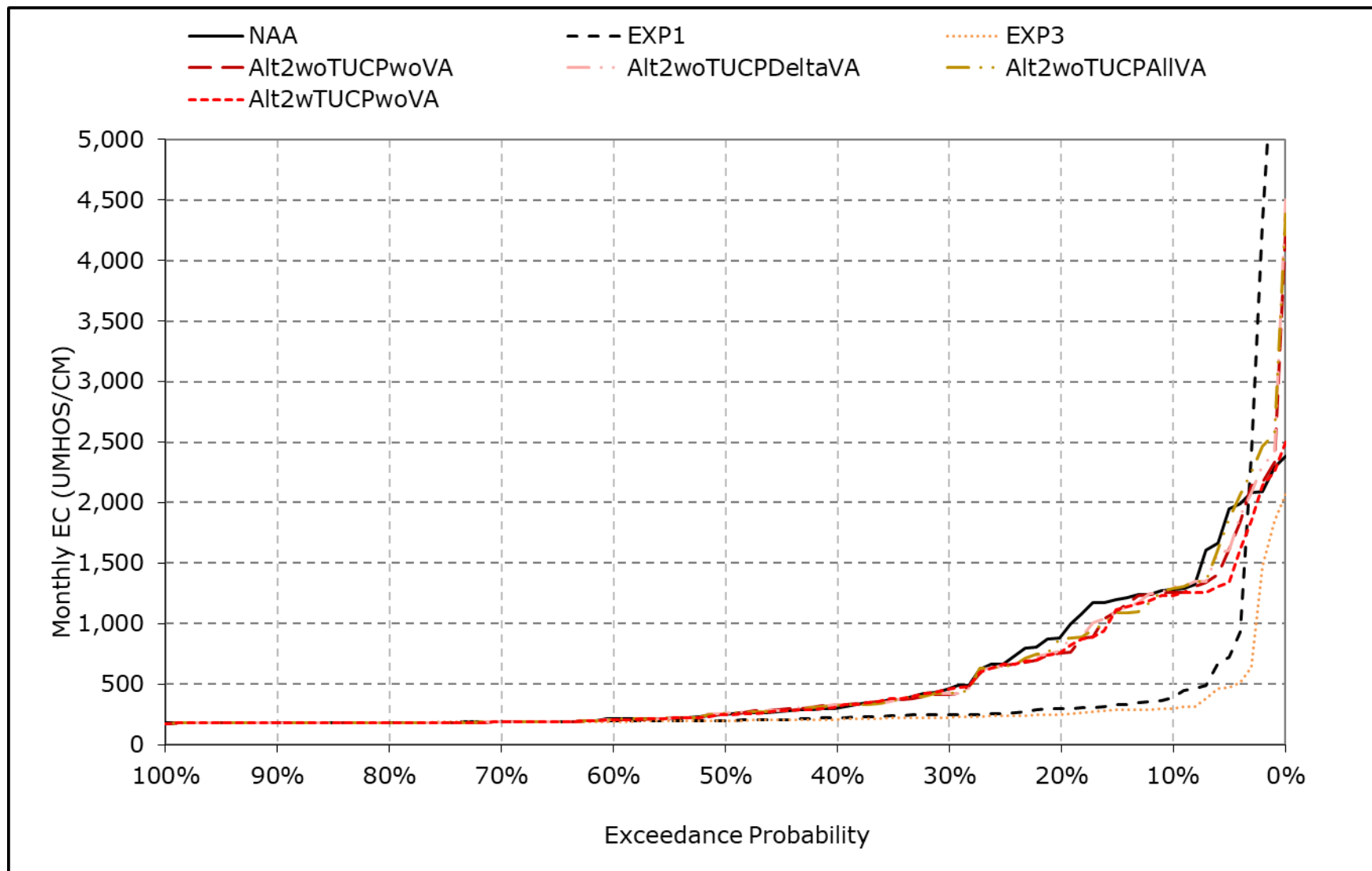


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

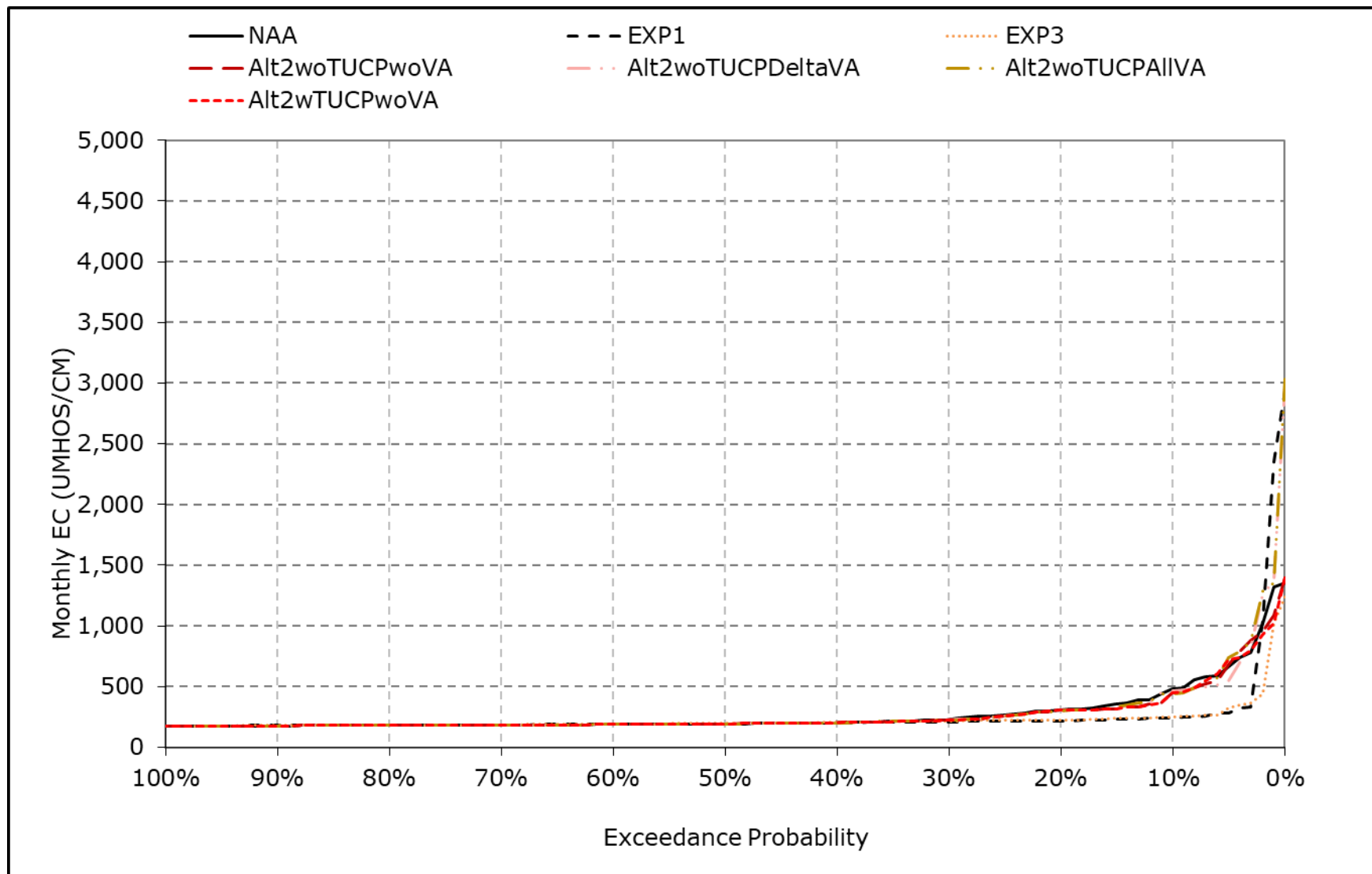
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-7. Sacramento River at Emmaton Salinity, January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

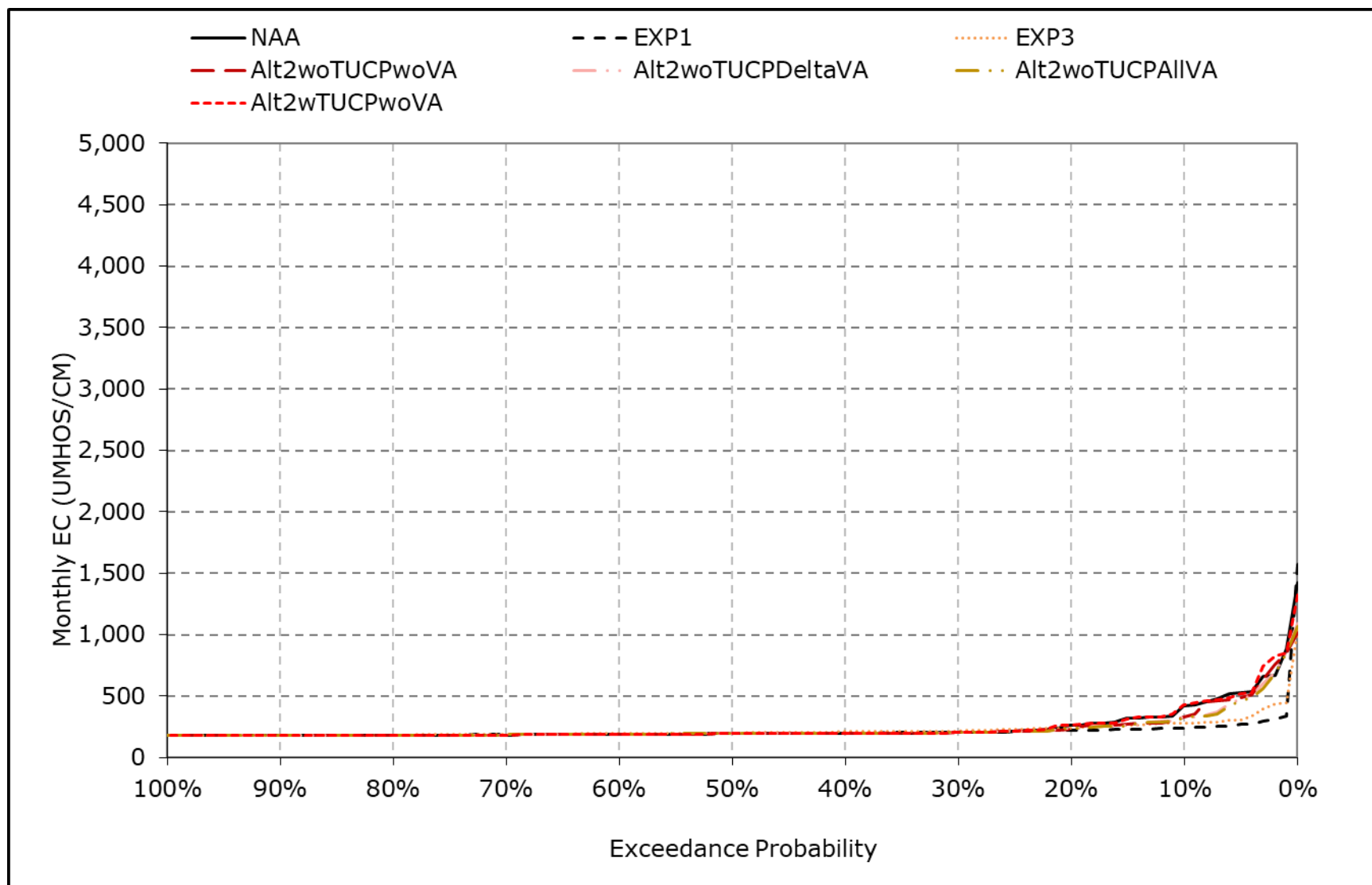
**Figure F.2.5-4-8. Sacramento River at Emmaton Salinity, February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

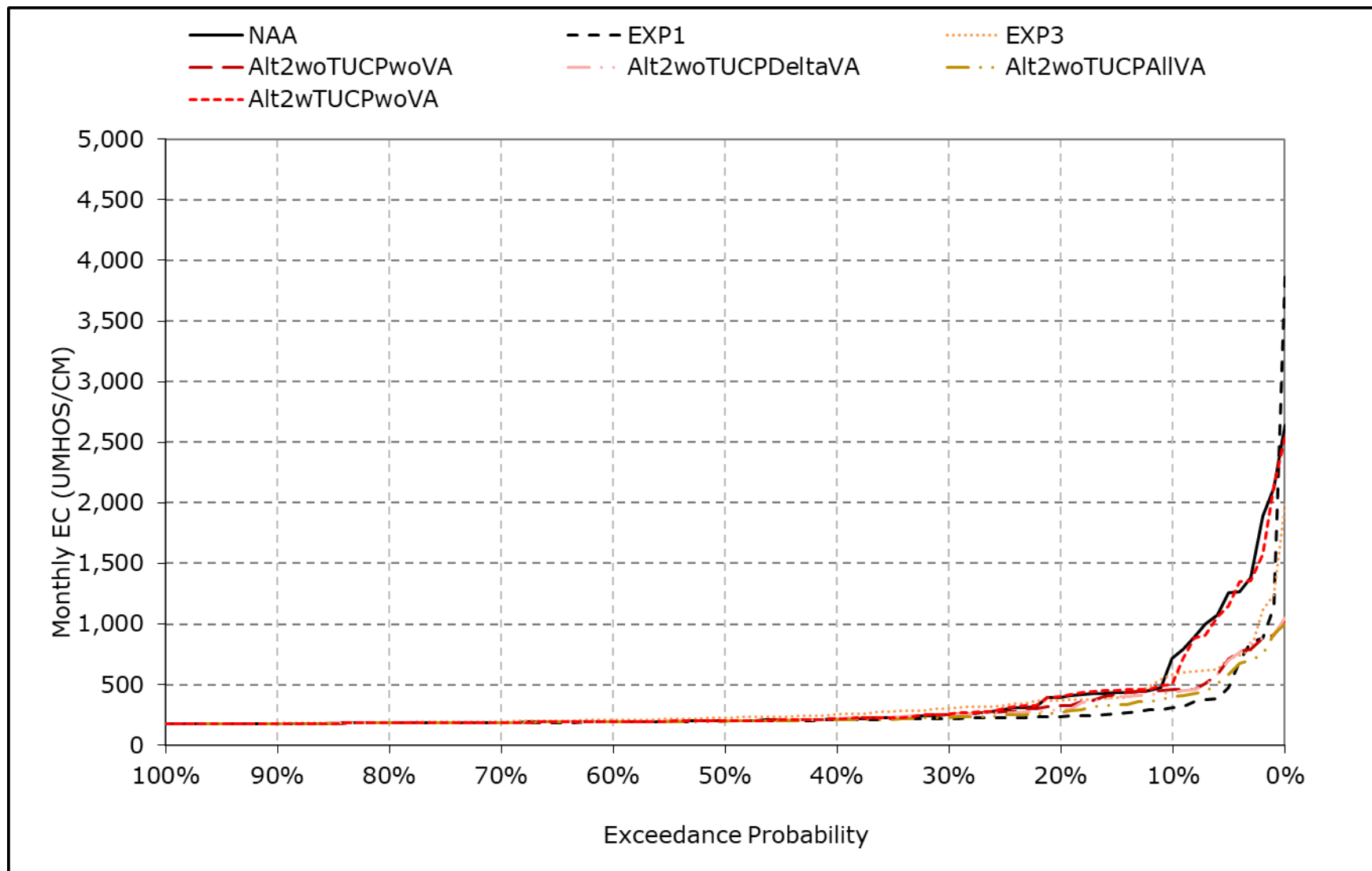


**Figure F.2.5-4-9. Sacramento River at Emmaton Salinity, March EC**



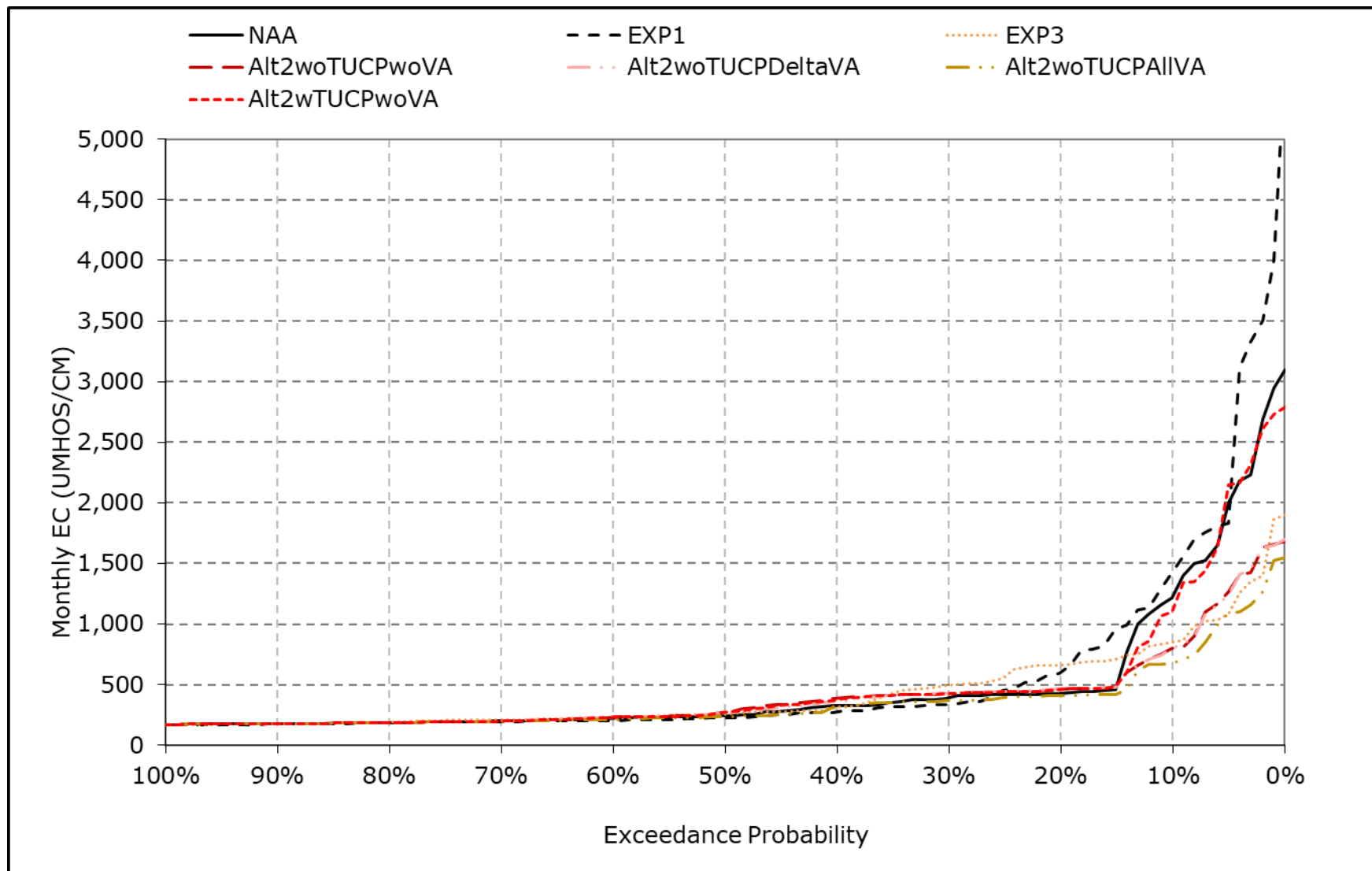
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-10. Sacramento River at Emmaton Salinity, April EC**



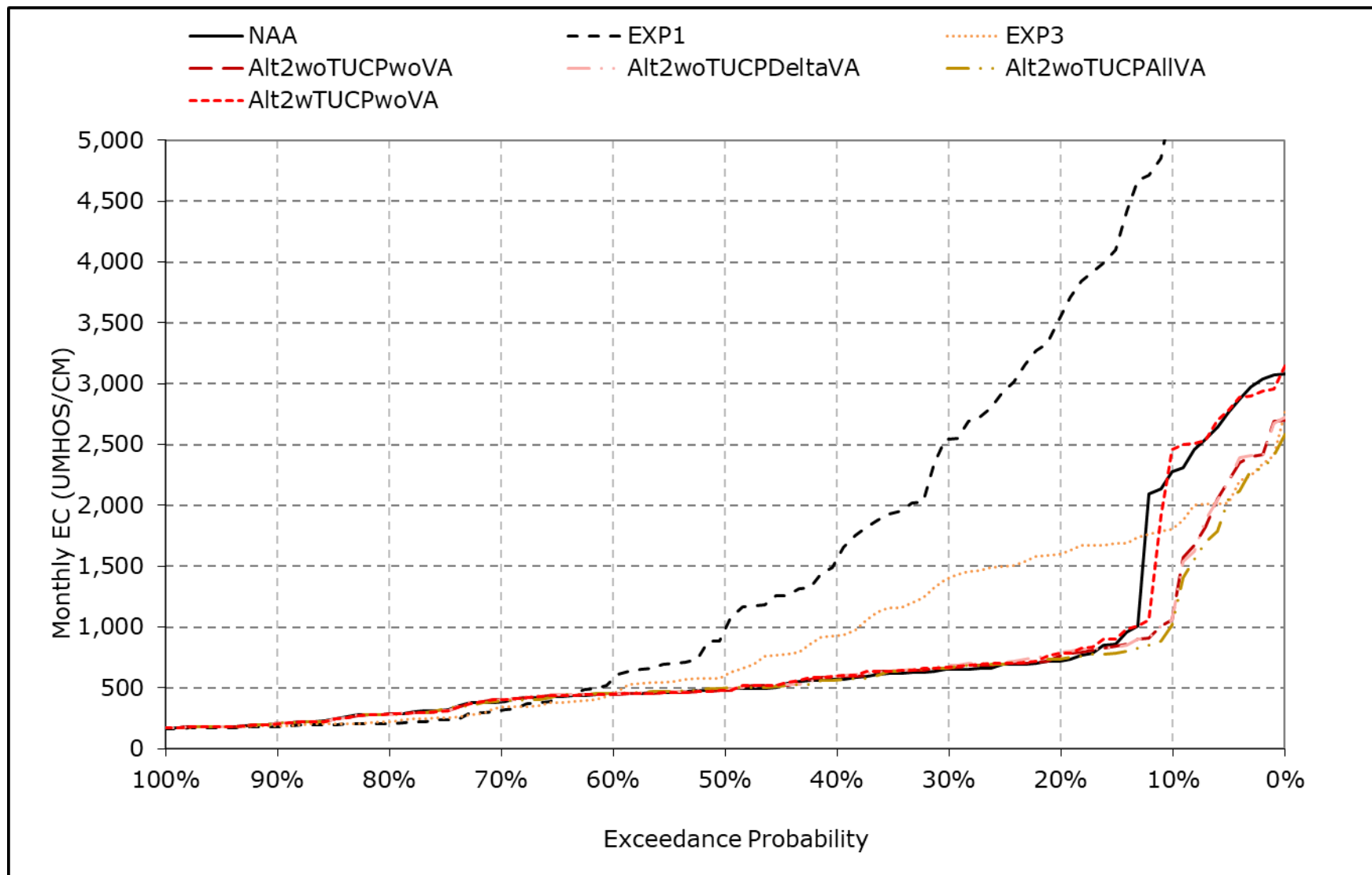
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-11. Sacramento River at Emmaton Salinity, May EC**



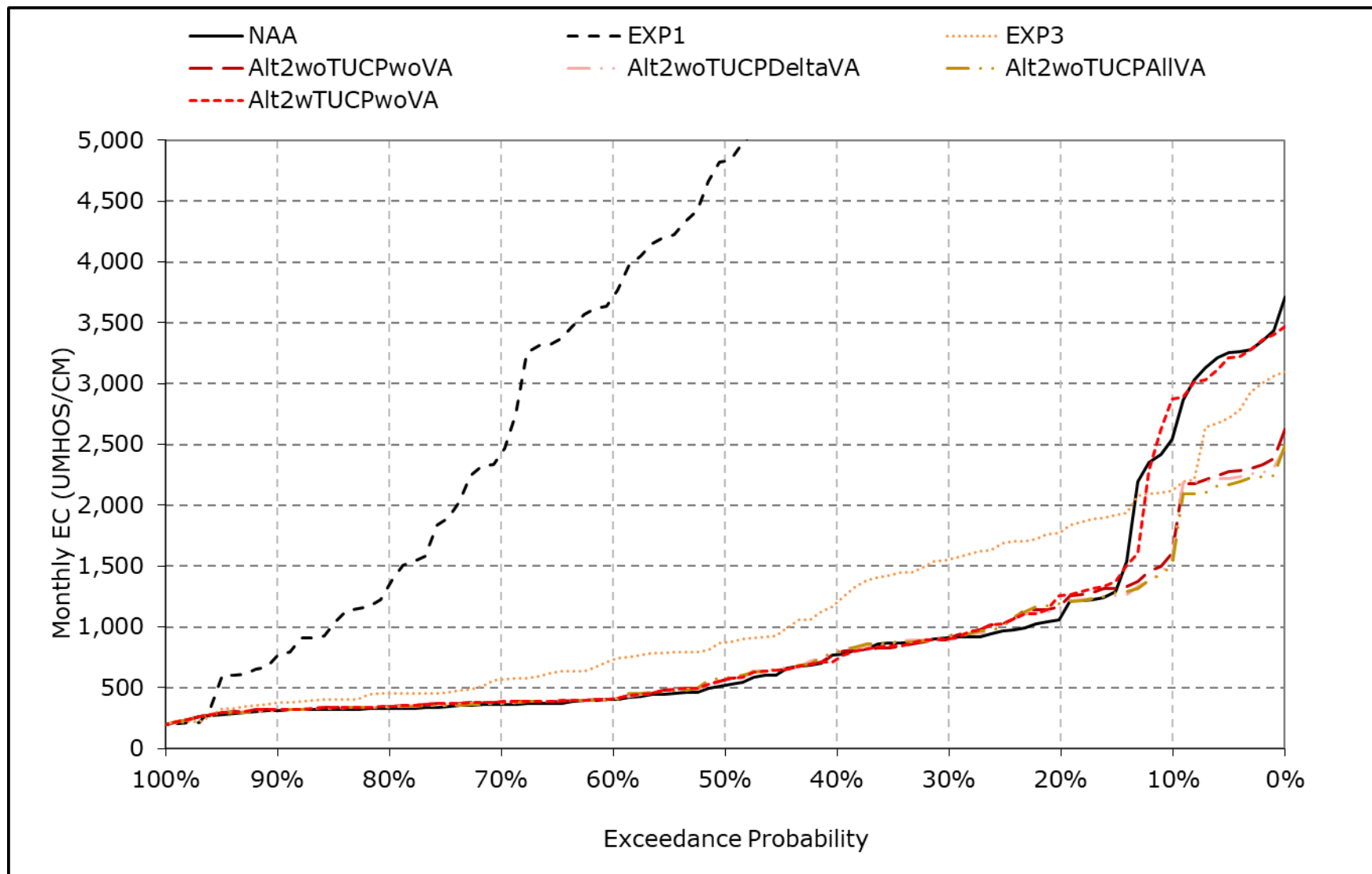
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-12. Sacramento River at Emmaton Salinity, June EC**



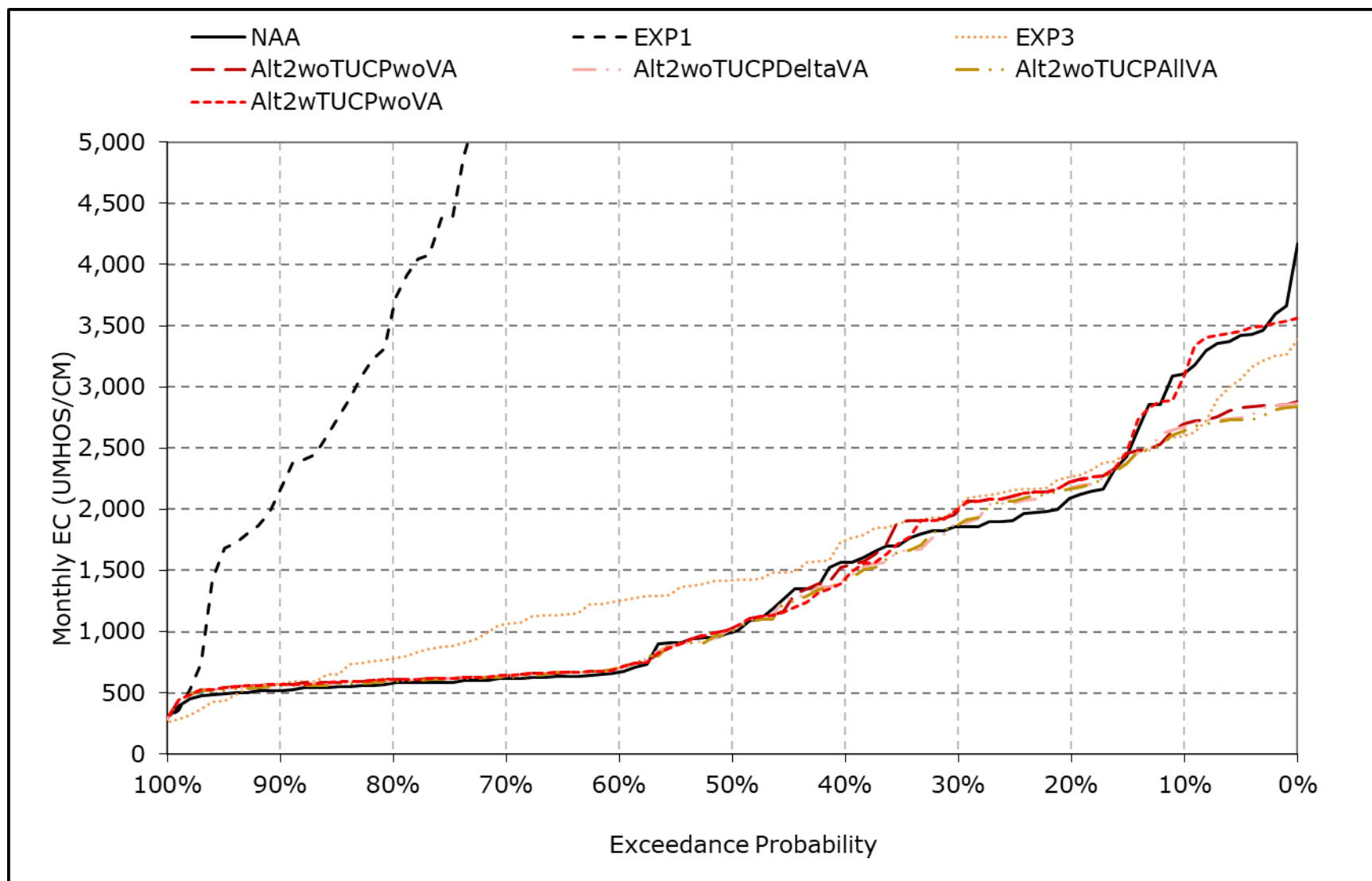
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-13. Sacramento River at Emmaton Salinity, July EC**



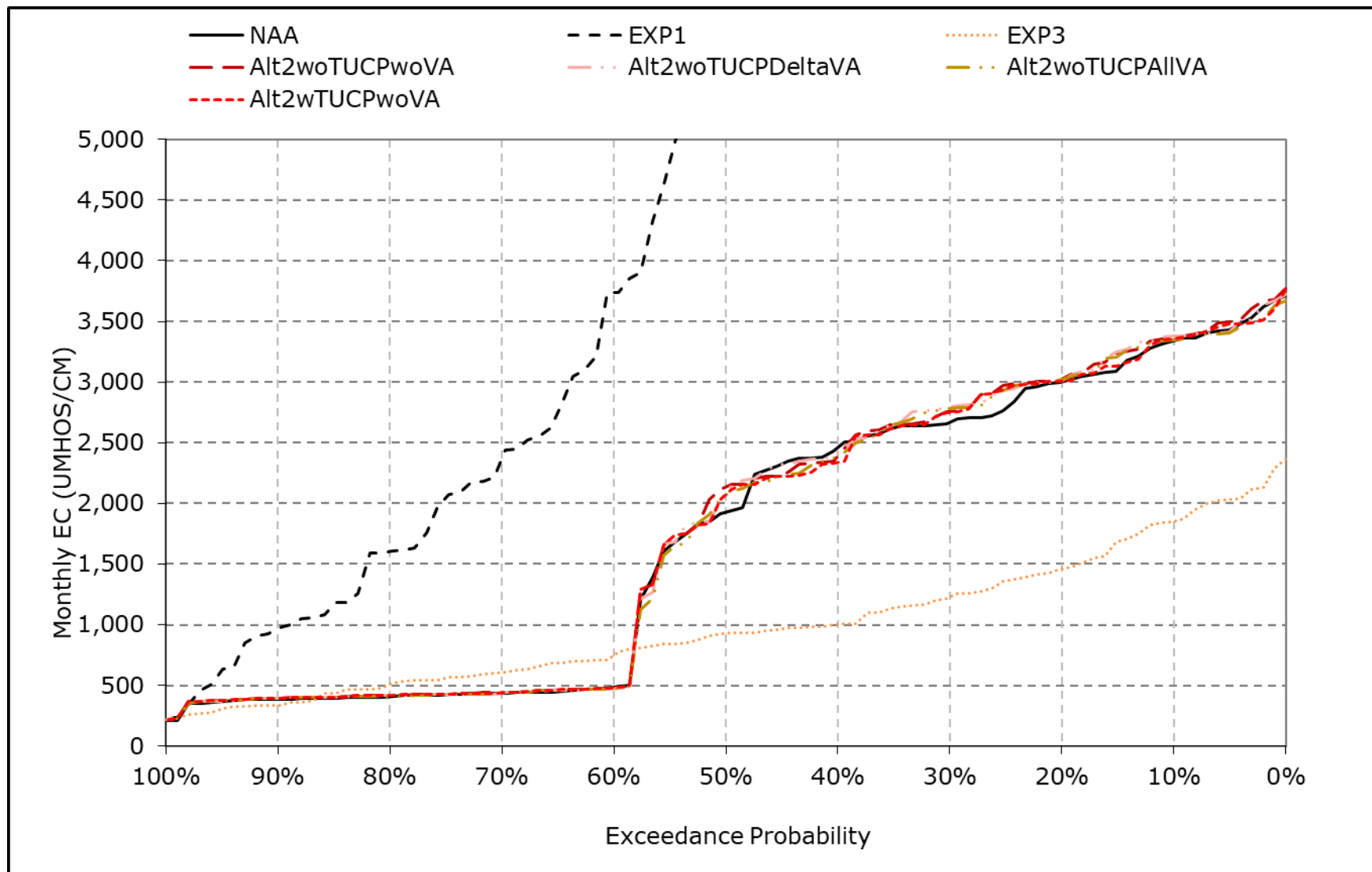
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-14. Sacramento River at Emmaton Salinity, August EC**



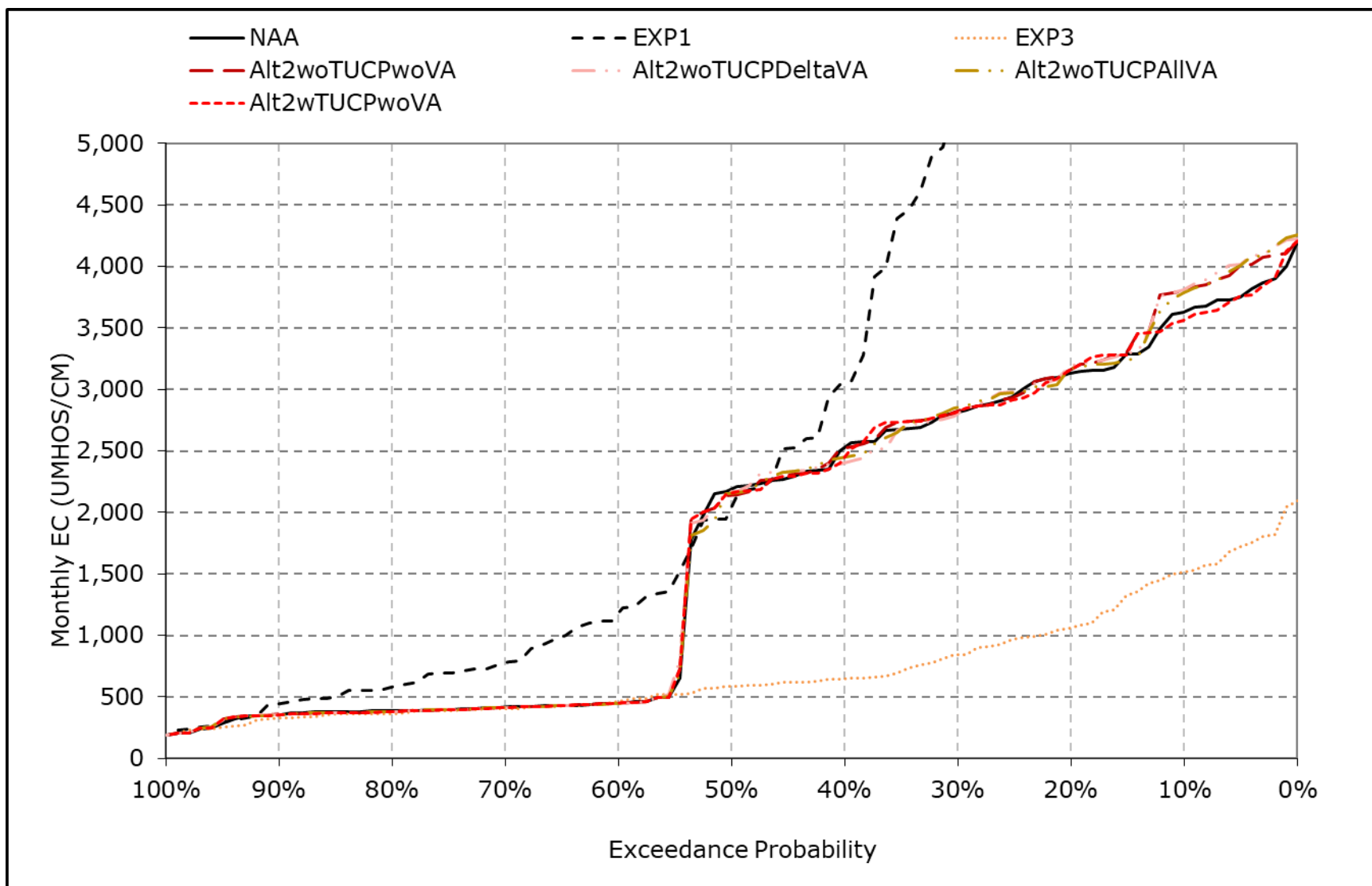
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-15. Sacramento River at Emmaton Salinity, September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

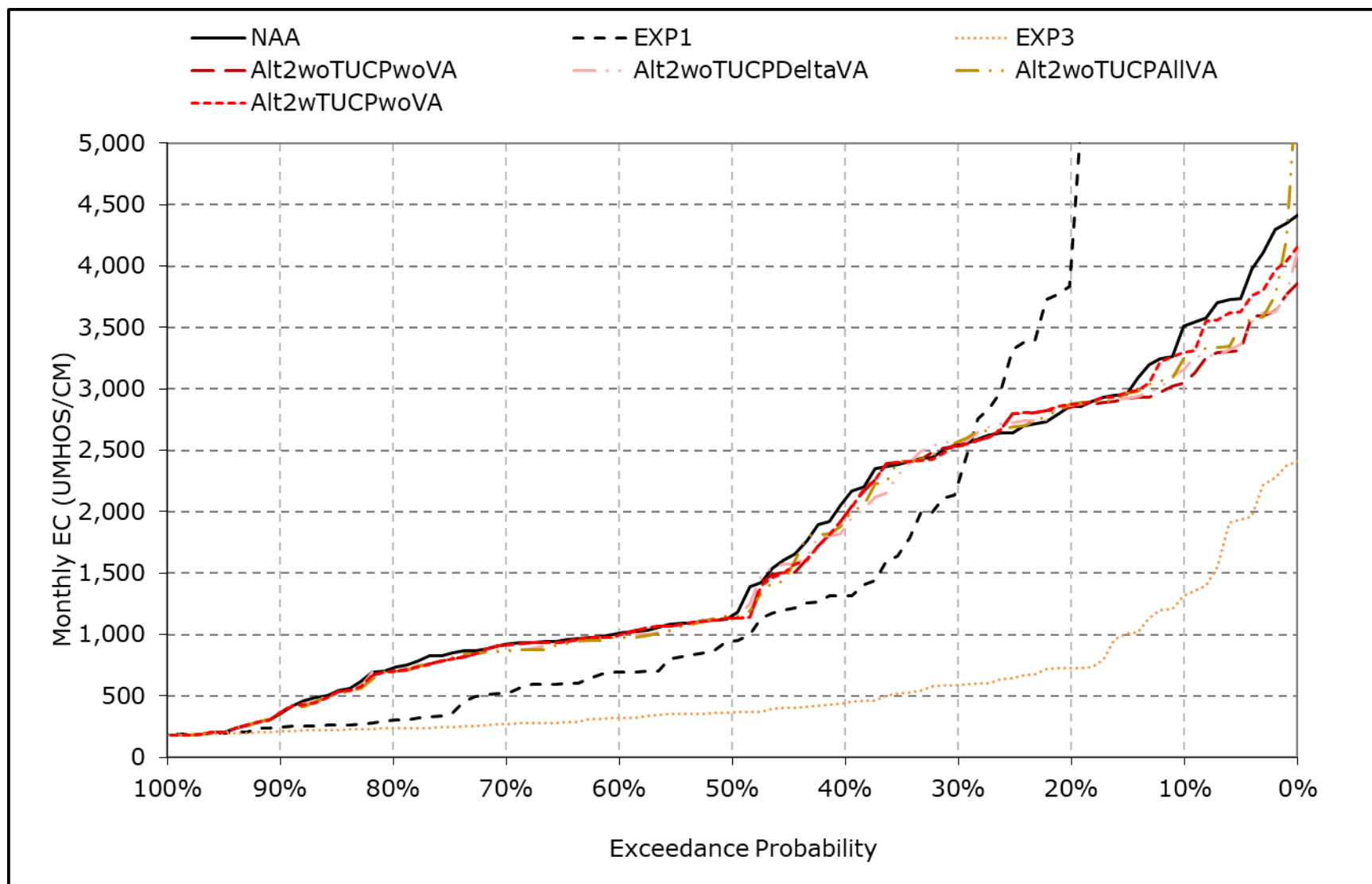
**Figure F.2.5-4-16. Sacramento River at Emmaton Salinity, October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

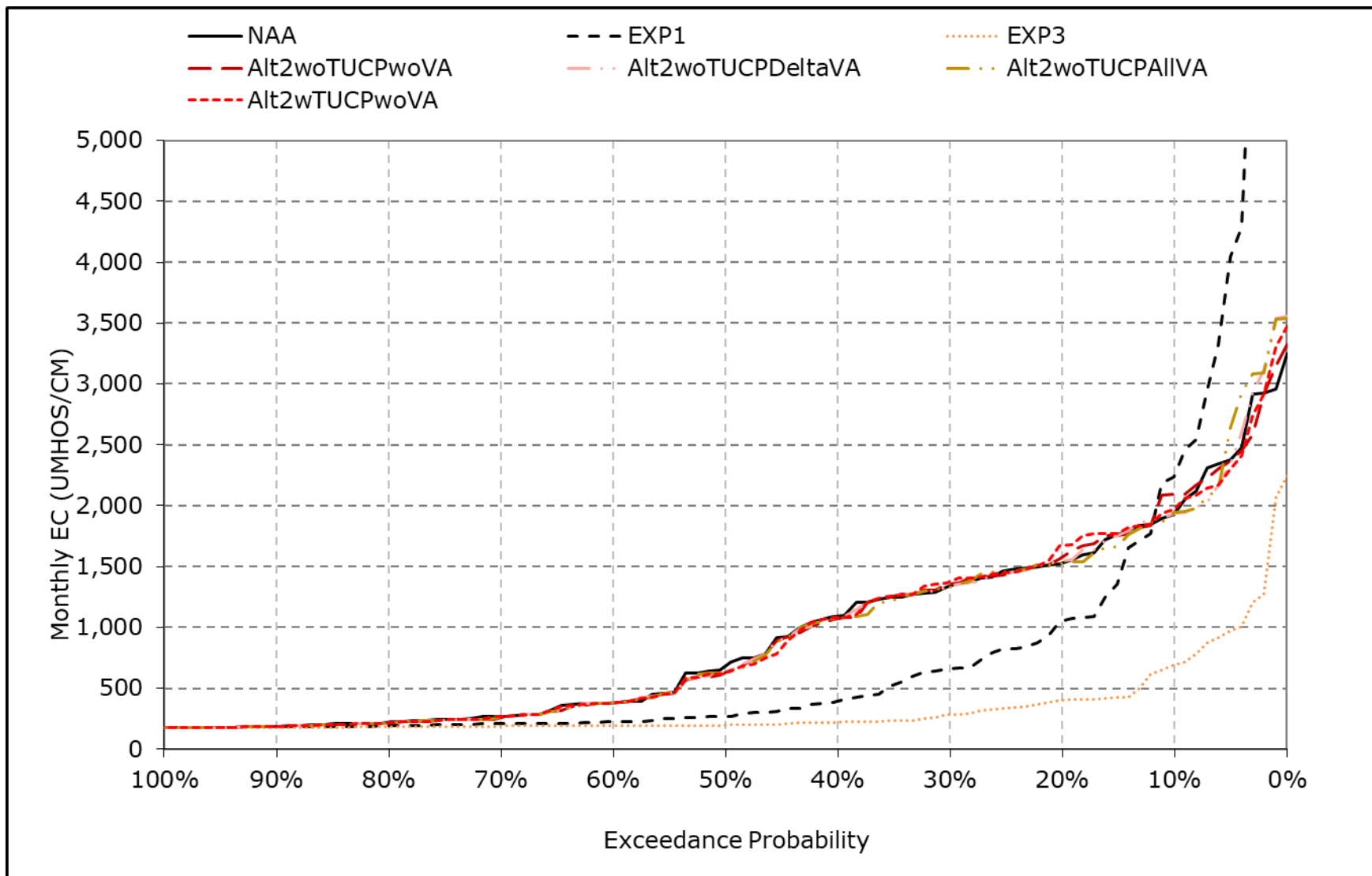


**Figure F.2.5-4-17. Sacramento River at Emmaton Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-4-18. Sacramento River at Emmaton Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-5-1a. Sacramento River at Rio Vista Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 477 | 491 | 342 | 268 | 209 | 202 | 218 | 248 | 399 | 411 | 439 | 449 |
| 20% Exceedance                              | 414 | 402 | 288 | 238 | 196 | 193 | 195 | 192 | 207 | 226 | 318 | 391 |
| 30% Exceedance                              | 377 | 368 | 275 | 205 | 191 | 188 | 189 | 190 | 201 | 216 | 286 | 353 |
| 40% Exceedance                              | 343 | 315 | 252 | 192 | 188 | 187 | 188 | 188 | 197 | 206 | 260 | 333 |
| 50% Exceedance                              | 313 | 241 | 221 | 189 | 185 | 185 | 186 | 186 | 193 | 193 | 224 | 299 |
| 60% Exceedance                              | 189 | 225 | 198 | 185 | 183 | 183 | 184 | 184 | 191 | 186 | 201 | 193 |
| 70% Exceedance                              | 187 | 217 | 187 | 181 | 181 | 180 | 181 | 182 | 189 | 185 | 196 | 190 |
| 80% Exceedance                              | 185 | 208 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 194 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 182 | 191 | 187 |
| Full Simulation Period Average <sup>a</sup> | 303 | 306 | 244 | 210 | 191 | 188 | 196 | 203 | 227 | 238 | 273 | 293 |
| Wet Water Years (28%)                       | 185 | 208 | 221 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 194 | 188 |
| Above Normal Years (14%)                    | 186 | 214 | 230 | 192 | 182 | 181 | 182 | 183 | 188 | 183 | 194 | 189 |
| Below Normal Years (18%)                    | 334 | 315 | 223 | 197 | 189 | 186 | 187 | 185 | 198 | 197 | 233 | 313 |
| Dry Water Years (24%)                       | 367 | 340 | 257 | 226 | 195 | 190 | 189 | 189 | 199 | 218 | 297 | 355 |
| Critical Water Years (16%)                  | 498 | 518 | 305 | 269 | 214 | 210 | 256 | 302 | 411 | 459 | 490 | 451 |

**Table F.2.5-5-1b. Sacramento River at Rio Vista Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 510 | 436 | 349 | 266 | 205 | 199 | 199 | 216 | 249 | 290 | 405 | 433 |
| 20% Exceedance                              | 415 | 415 | 291 | 226 | 195 | 193 | 193 | 193 | 208 | 244 | 340 | 390 |
| 30% Exceedance                              | 383 | 365 | 270 | 206 | 192 | 188 | 189 | 191 | 202 | 217 | 313 | 356 |
| 40% Exceedance                              | 343 | 298 | 252 | 193 | 188 | 187 | 187 | 190 | 198 | 208 | 264 | 336 |
| 50% Exceedance                              | 312 | 238 | 214 | 189 | 184 | 185 | 185 | 186 | 193 | 195 | 227 | 310 |
| 60% Exceedance                              | 189 | 223 | 198 | 185 | 183 | 183 | 184 | 183 | 191 | 186 | 203 | 194 |
| 70% Exceedance                              | 187 | 215 | 187 | 181 | 181 | 181 | 181 | 181 | 190 | 186 | 198 | 191 |
| 80% Exceedance                              | 185 | 206 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 197 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 183 | 194 | 187 |
| Full Simulation Period Average <sup>a</sup> | 306 | 296 | 243 | 211 | 190 | 188 | 188 | 194 | 213 | 219 | 266 | 295 |
| Wet Water Years (28%)                       | 186 | 208 | 223 | 180 | 179 | 180 | 180 | 180 | 184 | 184 | 196 | 189 |
| Above Normal Years (14%)                    | 185 | 213 | 229 | 192 | 182 | 181 | 182 | 183 | 188 | 184 | 197 | 190 |
| Below Normal Years (18%)                    | 334 | 306 | 222 | 197 | 189 | 186 | 187 | 186 | 198 | 197 | 236 | 313 |
| Dry Water Years (24%)                       | 371 | 345 | 256 | 223 | 194 | 190 | 189 | 189 | 201 | 223 | 312 | 362 |
| Critical Water Years (16%)                  | 517 | 455 | 302 | 280 | 212 | 205 | 207 | 241 | 318 | 326 | 411 | 450 |

**Table F.2.5-5-1c. Sacramento River at Rio Vista Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|
| 10% Exceedance                              | 34  | -55 | 8   | -2  | -4  | -3  | -18 | -33 | -151 | -121 | -34 | -16 |
| 20% Exceedance                              | 0   | 14  | 4   | -11 | -1  | 0   | -2  | 1   | 0    | 17   | 23  | -1  |
| 30% Exceedance                              | 6   | -3  | -5  | 1   | 1   | 0   | -1  | 1   | 1    | 1    | 27  | 4   |
| 40% Exceedance                              | 0   | -17 | 0   | 1   | 0   | 0   | 0   | 2   | 1    | 2    | 4   | 3   |
| 50% Exceedance                              | -2  | -2  | -7  | 1   | 0   | 0   | 0   | 0   | -1   | 1    | 2   | 10  |
| 60% Exceedance                              | 0   | -2  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 1   | 1   |
| 70% Exceedance                              | 0   | -2  | 0   | 0   | 0   | 0   | 0   | 0   | 1    | 1    | 2   | 0   |
| 80% Exceedance                              | 0   | -2  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 1    | 2   | 1   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 1    | 3   | 1   |
| Full Simulation Period Average <sup>a</sup> | 4   | -10 | 0   | 1   | -1  | -1  | -8  | -10 | -15  | -20  | -7  | 2   |
| Wet Water Years (28%)                       | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 2   | 1   |
| Above Normal Years (14%)                    | 0   | -2  | -1  | 0   | 0   | 0   | 0   | 0   | 0    | 1    | 3   | 0   |
| Below Normal Years (18%)                    | 0   | -8  | -1  | 0   | 0   | 0   | 0   | 1   | 0    | 1    | 3   | 1   |
| Dry Water Years (24%)                       | 4   | 4   | 0   | -3  | -1  | 0   | 0   | 0   | 2    | 5    | 15  | 7   |
| Critical Water Years (16%)                  | 18  | -62 | -3  | 11  | -2  | -5  | -49 | -62 | -93  | -134 | -79 | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-5-2a. Sacramento River at Rio Vista Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 477 | 491 | 342 | 268 | 209 | 202 | 218 | 248 | 399 | 411 | 439 | 449 |
| 20% Exceedance                              | 414 | 402 | 288 | 238 | 196 | 193 | 195 | 192 | 207 | 226 | 318 | 391 |
| 30% Exceedance                              | 377 | 368 | 275 | 205 | 191 | 188 | 189 | 190 | 201 | 216 | 286 | 353 |
| 40% Exceedance                              | 343 | 315 | 252 | 192 | 188 | 187 | 188 | 188 | 197 | 206 | 260 | 333 |
| 50% Exceedance                              | 313 | 241 | 221 | 189 | 185 | 185 | 186 | 186 | 193 | 193 | 224 | 299 |
| 60% Exceedance                              | 189 | 225 | 198 | 185 | 183 | 183 | 184 | 184 | 191 | 186 | 201 | 193 |
| 70% Exceedance                              | 187 | 217 | 187 | 181 | 181 | 180 | 181 | 182 | 189 | 185 | 196 | 190 |
| 80% Exceedance                              | 185 | 208 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 194 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 182 | 191 | 187 |
| Full Simulation Period Average <sup>a</sup> | 303 | 306 | 244 | 210 | 191 | 188 | 196 | 203 | 227 | 238 | 273 | 293 |
| Wet Water Years (28%)                       | 185 | 208 | 221 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 194 | 188 |
| Above Normal Years (14%)                    | 186 | 214 | 230 | 192 | 182 | 181 | 182 | 183 | 188 | 183 | 194 | 189 |
| Below Normal Years (18%)                    | 334 | 315 | 223 | 197 | 189 | 186 | 187 | 185 | 198 | 197 | 233 | 313 |
| Dry Water Years (24%)                       | 367 | 340 | 257 | 226 | 195 | 190 | 189 | 189 | 199 | 218 | 297 | 355 |
| Critical Water Years (16%)                  | 498 | 518 | 305 | 269 | 214 | 210 | 256 | 302 | 411 | 459 | 490 | 451 |

**Table F.2.5-5-2b. Sacramento River at Rio Vista Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 515 | 453 | 333 | 266 | 207 | 197 | 199 | 217 | 249 | 283 | 399 | 435 |
| 20% Exceedance                              | 404 | 411 | 286 | 229 | 195 | 194 | 194 | 194 | 210 | 235 | 331 | 392 |
| 30% Exceedance                              | 384 | 364 | 274 | 206 | 192 | 188 | 190 | 192 | 203 | 217 | 297 | 362 |
| 40% Exceedance                              | 335 | 289 | 253 | 192 | 188 | 187 | 188 | 191 | 199 | 209 | 257 | 342 |
| 50% Exceedance                              | 311 | 241 | 214 | 189 | 184 | 185 | 185 | 186 | 193 | 195 | 226 | 307 |
| 60% Exceedance                              | 188 | 221 | 199 | 185 | 183 | 183 | 184 | 184 | 192 | 187 | 202 | 193 |
| 70% Exceedance                              | 187 | 214 | 187 | 181 | 181 | 180 | 181 | 182 | 190 | 185 | 198 | 191 |
| 80% Exceedance                              | 185 | 206 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 196 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 183 | 194 | 187 |
| Full Simulation Period Average <sup>a</sup> | 307 | 297 | 245 | 212 | 192 | 188 | 189 | 194 | 213 | 217 | 262 | 295 |
| Wet Water Years (28%)                       | 186 | 207 | 224 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 196 | 189 |
| Above Normal Years (14%)                    | 185 | 212 | 228 | 192 | 182 | 181 | 183 | 184 | 188 | 184 | 196 | 189 |
| Below Normal Years (18%)                    | 328 | 303 | 221 | 198 | 189 | 186 | 188 | 187 | 198 | 198 | 231 | 313 |
| Dry Water Years (24%)                       | 372 | 345 | 253 | 223 | 194 | 190 | 190 | 190 | 202 | 222 | 303 | 366 |
| Critical Water Years (16%)                  | 523 | 466 | 316 | 288 | 225 | 206 | 207 | 241 | 318 | 317 | 406 | 445 |

**Table F.2.5-5-2c. Sacramento River at Rio Vista Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|
| 10% Exceedance                              | 39  | -38 | -8  | -2  | -2  | -5  | -19 | -31 | -150 | -129 | -40 | -14 |
| 20% Exceedance                              | -10 | 10  | -1  | -9  | -1  | 0   | -1  | 2   | 2    | 8    | 13  | 0   |
| 30% Exceedance                              | 7   | -5  | -1  | 1   | 1   | 0   | 1   | 2   | 2    | 2    | 11  | 9   |
| 40% Exceedance                              | -8  | -26 | 1   | 0   | 0   | 0   | 1   | 3   | 2    | 2    | -3  | 9   |
| 50% Exceedance                              | -2  | 0   | -6  | 1   | 0   | 0   | 0   | 0   | 0    | 1    | 2   | 7   |
| 60% Exceedance                              | 0   | -4  | 0   | 0   | 0   | 0   | 1   | 1   | 0    | 1    | 1   | 0   |
| 70% Exceedance                              | 0   | -3  | 0   | 0   | 0   | 0   | 0   | 0   | 1    | 1    | 2   | 0   |
| 80% Exceedance                              | 0   | -2  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 1    | 1   | 1   |
| 90% Exceedance                              | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 2   | 0   |
| Full Simulation Period Average <sup>a</sup> | 4   | -9  | 1   | 3   | 2   | -1  | -7  | -9  | -14  | -21  | -11 | 2   |
| Wet Water Years (28%)                       | 0   | 0   | 3   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 2   | 1   |
| Above Normal Years (14%)                    | 0   | -2  | -2  | 0   | 0   | 0   | 1   | 0   | 0    | 1    | 3   | 0   |
| Below Normal Years (18%)                    | -5  | -11 | -2  | 0   | 0   | 0   | 1   | 2   | 1    | 1    | -2  | 1   |
| Dry Water Years (24%)                       | 5   | 5   | -3  | -2  | -1  | 0   | 1   | 1   | 3    | 4    | 7   | 11  |
| Critical Water Years (16%)                  | 24  | -52 | 11  | 19  | 11  | -4  | -48 | -61 | -93  | -142 | -84 | -5  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-5-3a. Sacramento River at Rio Vista Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 477 | 491 | 342 | 268 | 209 | 202 | 218 | 248 | 399 | 411 | 439 | 449 |
| 20% Exceedance                              | 414 | 402 | 288 | 238 | 196 | 193 | 195 | 192 | 207 | 226 | 318 | 391 |
| 30% Exceedance                              | 377 | 368 | 275 | 205 | 191 | 188 | 189 | 190 | 201 | 216 | 286 | 353 |
| 40% Exceedance                              | 343 | 315 | 252 | 192 | 188 | 187 | 188 | 188 | 197 | 206 | 260 | 333 |
| 50% Exceedance                              | 313 | 241 | 221 | 189 | 185 | 185 | 186 | 186 | 193 | 193 | 224 | 299 |
| 60% Exceedance                              | 189 | 225 | 198 | 185 | 183 | 183 | 184 | 184 | 191 | 186 | 201 | 193 |
| 70% Exceedance                              | 187 | 217 | 187 | 181 | 181 | 180 | 181 | 182 | 189 | 185 | 196 | 190 |
| 80% Exceedance                              | 185 | 208 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 194 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 182 | 191 | 187 |
| Full Simulation Period Average <sup>a</sup> | 303 | 306 | 244 | 210 | 191 | 188 | 196 | 203 | 227 | 238 | 273 | 293 |
| Wet Water Years (28%)                       | 185 | 208 | 221 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 194 | 188 |
| Above Normal Years (14%)                    | 186 | 214 | 230 | 192 | 182 | 181 | 182 | 183 | 188 | 183 | 194 | 189 |
| Below Normal Years (18%)                    | 334 | 315 | 223 | 197 | 189 | 186 | 187 | 185 | 198 | 197 | 233 | 313 |
| Dry Water Years (24%)                       | 367 | 340 | 257 | 226 | 195 | 190 | 189 | 189 | 199 | 218 | 297 | 355 |
| Critical Water Years (16%)                  | 498 | 518 | 305 | 269 | 214 | 210 | 256 | 302 | 411 | 459 | 490 | 451 |

**Table F.2.5-5-3b. Sacramento River at Rio Vista Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 515 | 460 | 334 | 266 | 206 | 197 | 196 | 209 | 240 | 277 | 399 | 433 |
| 20% Exceedance                              | 404 | 411 | 286 | 231 | 195 | 194 | 193 | 192 | 208 | 240 | 332 | 390 |
| 30% Exceedance                              | 385 | 362 | 274 | 206 | 192 | 188 | 188 | 190 | 203 | 218 | 299 | 360 |
| 40% Exceedance                              | 338 | 296 | 251 | 192 | 188 | 187 | 187 | 187 | 197 | 209 | 257 | 331 |
| 50% Exceedance                              | 303 | 240 | 216 | 189 | 184 | 185 | 185 | 185 | 193 | 196 | 223 | 301 |
| 60% Exceedance                              | 188 | 221 | 199 | 185 | 183 | 183 | 183 | 183 | 192 | 187 | 201 | 193 |
| 70% Exceedance                              | 186 | 214 | 187 | 181 | 181 | 180 | 181 | 181 | 189 | 185 | 198 | 191 |
| 80% Exceedance                              | 185 | 206 | 182 | 180 | 179 | 179 | 179 | 179 | 185 | 184 | 195 | 189 |
| 90% Exceedance                              | 184 | 187 | 179 | 178 | 178 | 178 | 179 | 177 | 181 | 183 | 194 | 187 |
| Full Simulation Period Average <sup>a</sup> | 306 | 303 | 246 | 213 | 193 | 188 | 187 | 191 | 210 | 216 | 261 | 293 |
| Wet Water Years (28%)                       | 185 | 207 | 224 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 196 | 188 |
| Above Normal Years (14%)                    | 185 | 212 | 228 | 192 | 182 | 181 | 182 | 182 | 188 | 184 | 196 | 189 |
| Below Normal Years (18%)                    | 329 | 308 | 220 | 197 | 189 | 186 | 185 | 185 | 198 | 198 | 230 | 308 |
| Dry Water Years (24%)                       | 370 | 338 | 255 | 222 | 194 | 190 | 188 | 188 | 201 | 223 | 303 | 366 |
| Critical Water Years (16%)                  | 520 | 509 | 322 | 294 | 227 | 205 | 204 | 226 | 302 | 311 | 402 | 440 |

**Table F.2.5-5-3c. Sacramento River at Rio Vista Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|
| 10% Exceedance                              | 38  | -31 | -8  | -2  | -3  | -6  | -22 | -40 | -160 | -134 | -40 | -16 |
| 20% Exceedance                              | -11 | 9   | -2  | -7  | 0   | 0   | -2  | -1  | 0    | 14   | 14  | -2  |
| 30% Exceedance                              | 8   | -6  | -1  | 1   | 1   | 0   | -1  | 0   | 2    | 2    | 13  | 8   |
| 40% Exceedance                              | -5  | -19 | 0   | 0   | 0   | 0   | -1  | -1  | 0    | 3    | -3  | -2  |
| 50% Exceedance                              | -11 | 0   | -5  | 1   | 0   | 0   | -1  | -1  | 0    | 3    | -1  | 1   |
| 60% Exceedance                              | 0   | -3  | 1   | 0   | 0   | 0   | 0   | -1  | 1    | 1    | 0   | 0   |
| 70% Exceedance                              | 0   | -3  | 0   | 0   | 0   | 0   | 0   | -1  | 0    | 1    | 2   | 0   |
| 80% Exceedance                              | 0   | -2  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 1   | 1   |
| 90% Exceedance                              | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 0    | 1    | 2   | 0   |
| Full Simulation Period Average <sup>a</sup> | 3   | -4  | 2   | 3   | 2   | -1  | -9  | -13 | -17  | -22  | -13 | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 3   | 0   | 0   | 0   | 0   | 0   | 0    | 0    | 1   | 1   |
| Above Normal Years (14%)                    | 0   | -2  | -2  | 0   | 0   | 0   | 0   | -1  | 0    | 1    | 2   | 0   |
| Below Normal Years (18%)                    | -5  | -7  | -3  | 0   | 0   | 0   | -1  | -1  | 1    | 1    | -3  | -4  |
| Dry Water Years (24%)                       | 3   | -3  | -2  | -4  | -1  | 0   | -1  | -1  | 2    | 5    | 6   | 11  |
| Critical Water Years (16%)                  | 22  | -9  | 17  | 26  | 13  | -5  | -51 | -76 | -108 | -148 | -89 | -11 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-5-4a. Sacramento River at Rio Vista Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 477 | 491 | 342 | 268 | 209 | 202 | 218 | 248 | 399 | 411 | 439 | 449 |
| 20% Exceedance                              | 414 | 402 | 288 | 238 | 196 | 193 | 195 | 192 | 207 | 226 | 318 | 391 |
| 30% Exceedance                              | 377 | 368 | 275 | 205 | 191 | 188 | 189 | 190 | 201 | 216 | 286 | 353 |
| 40% Exceedance                              | 343 | 315 | 252 | 192 | 188 | 187 | 188 | 188 | 197 | 206 | 260 | 333 |
| 50% Exceedance                              | 313 | 241 | 221 | 189 | 185 | 185 | 186 | 186 | 193 | 193 | 224 | 299 |
| 60% Exceedance                              | 189 | 225 | 198 | 185 | 183 | 183 | 184 | 184 | 191 | 186 | 201 | 193 |
| 70% Exceedance                              | 187 | 217 | 187 | 181 | 181 | 180 | 181 | 182 | 189 | 185 | 196 | 190 |
| 80% Exceedance                              | 185 | 208 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 194 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 182 | 191 | 187 |
| Full Simulation Period Average <sup>a</sup> | 303 | 306 | 244 | 210 | 191 | 188 | 196 | 203 | 227 | 238 | 273 | 293 |
| Wet Water Years (28%)                       | 185 | 208 | 221 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 194 | 188 |
| Above Normal Years (14%)                    | 186 | 214 | 230 | 192 | 182 | 181 | 182 | 183 | 188 | 183 | 194 | 189 |
| Below Normal Years (18%)                    | 334 | 315 | 223 | 197 | 189 | 186 | 187 | 185 | 198 | 197 | 233 | 313 |
| Dry Water Years (24%)                       | 367 | 340 | 257 | 226 | 195 | 190 | 189 | 189 | 199 | 218 | 297 | 355 |
| Critical Water Years (16%)                  | 498 | 518 | 305 | 269 | 214 | 210 | 256 | 302 | 411 | 459 | 490 | 451 |

**Table F.2.5-5-4b. Sacramento River at Rio Vista Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 481 | 489 | 331 | 265 | 205 | 202 | 205 | 240 | 398 | 450 | 459 | 430 |
| 20% Exceedance                              | 412 | 409 | 291 | 227 | 195 | 193 | 196 | 193 | 209 | 242 | 340 | 388 |
| 30% Exceedance                              | 381 | 367 | 273 | 206 | 191 | 188 | 189 | 191 | 202 | 217 | 311 | 356 |
| 40% Exceedance                              | 340 | 298 | 251 | 192 | 188 | 187 | 187 | 189 | 198 | 206 | 258 | 332 |
| 50% Exceedance                              | 310 | 239 | 214 | 189 | 184 | 185 | 185 | 185 | 193 | 194 | 227 | 303 |
| 60% Exceedance                              | 189 | 223 | 198 | 185 | 183 | 183 | 184 | 183 | 191 | 186 | 203 | 194 |
| 70% Exceedance                              | 187 | 215 | 187 | 181 | 181 | 180 | 181 | 181 | 190 | 186 | 198 | 191 |
| 80% Exceedance                              | 185 | 206 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 197 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 183 | 194 | 187 |
| Full Simulation Period Average <sup>a</sup> | 302 | 301 | 244 | 207 | 190 | 188 | 195 | 202 | 226 | 239 | 277 | 294 |
| Wet Water Years (28%)                       | 186 | 208 | 223 | 180 | 179 | 180 | 180 | 180 | 184 | 184 | 196 | 189 |
| Above Normal Years (14%)                    | 185 | 213 | 229 | 192 | 182 | 181 | 182 | 183 | 188 | 184 | 197 | 190 |
| Below Normal Years (18%)                    | 332 | 305 | 222 | 197 | 189 | 186 | 187 | 186 | 198 | 197 | 232 | 310 |
| Dry Water Years (24%)                       | 371 | 344 | 258 | 223 | 194 | 190 | 189 | 189 | 201 | 223 | 312 | 362 |
| Critical Water Years (16%)                  | 492 | 489 | 299 | 252 | 212 | 210 | 250 | 292 | 403 | 455 | 489 | 447 |

**Table F.2.5-5-4c. Sacramento River at Rio Vista Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 5   | -2  | -10 | -2  | -4  | 0   | -13 | -9  | -2  | 39  | 20  | -19 |
| 20% Exceedance                              | -3  | 7   | 3   | -11 | -1  | 0   | 1   | 1   | 2   | 16  | 22  | -3  |
| 30% Exceedance                              | 4   | -1  | -2  | 1   | 0   | 0   | -1  | 1   | 2   | 1   | 25  | 3   |
| 40% Exceedance                              | -3  | -17 | 0   | 0   | 0   | 0   | 0   | 1   | 1   | -1  | -2  | -1  |
| 50% Exceedance                              | -3  | -2  | -7  | 0   | 0   | 0   | 0   | -1  | -1  | 1   | 2   | 3   |
| 60% Exceedance                              | 0   | -2  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   |
| 70% Exceedance                              | 0   | -2  | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 2   | 1   |
| 80% Exceedance                              | 0   | -2  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 2   | 1   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 3   | 1   |
| Full Simulation Period Average <sup>a</sup> | 0   | -5  | 0   | -3  | -1  | 0   | -1  | -1  | -1  | 1   | 4   | 1   |
| Wet Water Years (28%)                       | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 2   | 1   |
| Above Normal Years (14%)                    | -1  | -2  | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 3   | 0   |
| Below Normal Years (18%)                    | -2  | -9  | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | -1  | -2  |
| Dry Water Years (24%)                       | 4   | 3   | 2   | -2  | -1  | 0   | 0   | 0   | 2   | 5   | 15  | 7   |
| Critical Water Years (16%)                  | -6  | -29 | -6  | -16 | -2  | 0   | -6  | -10 | -8  | -4  | -1  | -4  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-5-5a. Sacramento River at Rio Vista Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 477 | 491 | 342 | 268 | 209 | 202 | 218 | 248 | 399 | 411 | 439 | 449 |
| 20% Exceedance                              | 414 | 402 | 288 | 238 | 196 | 193 | 195 | 192 | 207 | 226 | 318 | 391 |
| 30% Exceedance                              | 377 | 368 | 275 | 205 | 191 | 188 | 189 | 190 | 201 | 216 | 286 | 353 |
| 40% Exceedance                              | 343 | 315 | 252 | 192 | 188 | 187 | 188 | 188 | 197 | 206 | 260 | 333 |
| 50% Exceedance                              | 313 | 241 | 221 | 189 | 185 | 185 | 186 | 186 | 193 | 193 | 224 | 299 |
| 60% Exceedance                              | 189 | 225 | 198 | 185 | 183 | 183 | 184 | 184 | 191 | 186 | 201 | 193 |
| 70% Exceedance                              | 187 | 217 | 187 | 181 | 181 | 180 | 181 | 182 | 189 | 185 | 196 | 190 |
| 80% Exceedance                              | 185 | 208 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 194 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 182 | 191 | 187 |
| Full Simulation Period Average <sup>a</sup> | 303 | 306 | 244 | 210 | 191 | 188 | 196 | 203 | 227 | 238 | 273 | 293 |
| Wet Water Years (28%)                       | 185 | 208 | 221 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 194 | 188 |
| Above Normal Years (14%)                    | 186 | 214 | 230 | 192 | 182 | 181 | 182 | 183 | 188 | 183 | 194 | 189 |
| Below Normal Years (18%)                    | 334 | 315 | 223 | 197 | 189 | 186 | 187 | 185 | 198 | 197 | 233 | 313 |
| Dry Water Years (24%)                       | 367 | 340 | 257 | 226 | 195 | 190 | 189 | 189 | 199 | 218 | 297 | 355 |
| Critical Water Years (16%)                  | 498 | 518 | 305 | 269 | 214 | 210 | 256 | 302 | 411 | 459 | 490 | 451 |

**Table F.2.5-5-5b. Sacramento River at Rio Vista Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 282 | 255 | 219 | 200 | 201 | 204 | 227 | 239 | 345 | 346 | 394 | 296 |
| 20% Exceedance                              | 237 | 213 | 199 | 193 | 194 | 198 | 213 | 221 | 316 | 304 | 352 | 256 |
| 30% Exceedance                              | 218 | 204 | 193 | 189 | 191 | 190 | 205 | 210 | 290 | 282 | 322 | 240 |
| 40% Exceedance                              | 205 | 197 | 186 | 188 | 187 | 187 | 197 | 198 | 238 | 242 | 298 | 219 |
| 50% Exceedance                              | 201 | 193 | 182 | 184 | 185 | 185 | 192 | 193 | 215 | 219 | 259 | 215 |
| 60% Exceedance                              | 197 | 191 | 180 | 182 | 182 | 182 | 186 | 189 | 206 | 209 | 244 | 205 |
| 70% Exceedance                              | 195 | 190 | 179 | 180 | 180 | 180 | 181 | 186 | 195 | 202 | 231 | 199 |
| 80% Exceedance                              | 193 | 187 | 178 | 179 | 179 | 179 | 180 | 180 | 186 | 197 | 211 | 194 |
| 90% Exceedance                              | 191 | 183 | 178 | 178 | 178 | 178 | 179 | 178 | 182 | 192 | 204 | 190 |
| Full Simulation Period Average <sup>a</sup> | 218 | 211 | 193 | 191 | 188 | 189 | 199 | 204 | 247 | 253 | 286 | 228 |
| Wet Water Years (28%)                       | 194 | 188 | 181 | 179 | 179 | 180 | 181 | 182 | 189 | 197 | 215 | 195 |
| Above Normal Years (14%)                    | 196 | 193 | 184 | 183 | 181 | 181 | 185 | 188 | 205 | 203 | 230 | 202 |
| Below Normal Years (18%)                    | 205 | 199 | 190 | 185 | 188 | 186 | 195 | 198 | 249 | 235 | 268 | 215 |
| Dry Water Years (24%)                       | 222 | 209 | 197 | 192 | 190 | 191 | 202 | 208 | 276 | 275 | 325 | 241 |
| Critical Water Years (16%)                  | 291 | 288 | 226 | 222 | 207 | 211 | 244 | 255 | 340 | 380 | 418 | 303 |

**Table F.2.5-5-5c. Sacramento River at Rio Vista Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -194 | -236 | -123 | -68 | -8  | 2   | 9   | -9  | -54 | -65 | -45 | -153 |
| 20% Exceedance                              | -177 | -188 | -89  | -45 | -2  | 5   | 17  | 29  | 108 | 78  | 35  | -136 |
| 30% Exceedance                              | -159 | -164 | -82  | -16 | 0   | 2   | 15  | 20  | 89  | 66  | 36  | -112 |
| 40% Exceedance                              | -138 | -119 | -65  | -5  | 0   | 0   | 9   | 9   | 41  | 35  | 39  | -114 |
| 50% Exceedance                              | -112 | -48  | -39  | -4  | 0   | 0   | 6   | 7   | 22  | 26  | 35  | -84  |
| 60% Exceedance                              | 8    | -33  | -18  | -3  | -1  | -1  | 2   | 5   | 14  | 23  | 43  | 12   |
| 70% Exceedance                              | 8    | -28  | -8   | -1  | 0   | 0   | 0   | 4   | 6   | 18  | 35  | 8    |
| 80% Exceedance                              | 8    | -21  | -4   | -1  | 0   | 0   | 0   | 1   | 1   | 14  | 16  | 6    |
| 90% Exceedance                              | 7    | -4   | -1   | 0   | 0   | 0   | 0   | 0   | 1   | 10  | 12  | 4    |
| Full Simulation Period Average <sup>a</sup> | -85  | -96  | -50  | -19 | -2  | 0   | 3   | 0   | 20  | 15  | 12  | -65  |
| Wet Water Years (28%)                       | 9    | -20  | -41  | -1  | 0   | 1   | 1   | 2   | 4   | 14  | 21  | 7    |
| Above Normal Years (14%)                    | 10   | -22  | -46  | -9  | -1  | 0   | 3   | 4   | 17  | 20  | 36  | 12   |
| Below Normal Years (18%)                    | -129 | -116 | -33  | -12 | -1  | 0   | 8   | 13  | 51  | 38  | 35  | -98  |
| Dry Water Years (24%)                       | -146 | -131 | -60  | -34 | -4  | 1   | 13  | 19  | 77  | 57  | 28  | -114 |
| Critical Water Years (16%)                  | -207 | -230 | -79  | -47 | -7  | 0   | -12 | -47 | -71 | -79 | -72 | -148 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-5-6a. Sacramento River at Rio Vista Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 2,200 | 2,112 | 442 | 207 | 198 | 195 | 201 | 345 | 1,301 | 2,693 | 3,613 | 2,213 |
| 20% Exceedance                              | 1,678 | 764   | 272 | 196 | 190 | 191 | 193 | 225 | 810   | 2,165 | 3,191 | 1,841 |
| 30% Exceedance                              | 1,088 | 447   | 227 | 191 | 187 | 184 | 189 | 200 | 561   | 1,831 | 2,808 | 1,616 |
| 40% Exceedance                              | 531   | 304   | 204 | 187 | 185 | 183 | 185 | 193 | 356   | 1,327 | 2,486 | 1,345 |
| 50% Exceedance                              | 422   | 255   | 191 | 183 | 182 | 182 | 182 | 187 | 273   | 1,071 | 2,323 | 1,051 |
| 60% Exceedance                              | 273   | 225   | 186 | 182 | 181 | 180 | 180 | 184 | 217   | 863   | 1,965 | 615   |
| 70% Exceedance                              | 230   | 208   | 183 | 180 | 180 | 179 | 179 | 181 | 197   | 551   | 1,223 | 396   |
| 80% Exceedance                              | 211   | 193   | 180 | 179 | 179 | 179 | 178 | 178 | 186   | 331   | 641   | 281   |
| 90% Exceedance                              | 198   | 185   | 178 | 178 | 178 | 178 | 178 | 177 | 181   | 246   | 385   | 229   |
| Full Simulation Period Average <sup>a</sup> | 889   | 685   | 292 | 228 | 192 | 186 | 195 | 240 | 519   | 1,296 | 2,085 | 1,132 |
| Wet Water Years (28%)                       | 236   | 216   | 193 | 179 | 179 | 179 | 179 | 181 | 200   | 474   | 885   | 348   |
| Above Normal Years (14%)                    | 332   | 248   | 193 | 182 | 180 | 180 | 180 | 184 | 243   | 853   | 1,697 | 657   |
| Below Normal Years (18%)                    | 718   | 441   | 236 | 187 | 186 | 183 | 184 | 200 | 436   | 1,437 | 2,554 | 1,136 |
| Dry Water Years (24%)                       | 1,090 | 734   | 344 | 195 | 188 | 186 | 189 | 223 | 621   | 1,782 | 2,848 | 1,572 |
| Critical Water Years (16%)                  | 2,546 | 2,215 | 561 | 446 | 241 | 207 | 260 | 466 | 1,262 | 2,233 | 2,854 | 2,252 |

**Table F.2.5-5-6b. Sacramento River at Rio Vista Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 510 | 436 | 349 | 266 | 205 | 199 | 199 | 216 | 249 | 290 | 405 | 433 |
| 20% Exceedance                              | 415 | 415 | 291 | 226 | 195 | 193 | 193 | 193 | 208 | 244 | 340 | 390 |
| 30% Exceedance                              | 383 | 365 | 270 | 206 | 192 | 188 | 189 | 191 | 202 | 217 | 313 | 356 |
| 40% Exceedance                              | 343 | 298 | 252 | 193 | 188 | 187 | 187 | 190 | 198 | 208 | 264 | 336 |
| 50% Exceedance                              | 312 | 238 | 214 | 189 | 184 | 185 | 185 | 186 | 193 | 195 | 227 | 310 |
| 60% Exceedance                              | 189 | 223 | 198 | 185 | 183 | 183 | 184 | 183 | 191 | 186 | 203 | 194 |
| 70% Exceedance                              | 187 | 215 | 187 | 181 | 181 | 181 | 181 | 181 | 190 | 186 | 198 | 191 |
| 80% Exceedance                              | 185 | 206 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 197 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 183 | 194 | 187 |
| Full Simulation Period Average <sup>a</sup> | 306 | 296 | 243 | 211 | 190 | 188 | 188 | 194 | 213 | 219 | 266 | 295 |
| Wet Water Years (28%)                       | 186 | 208 | 223 | 180 | 179 | 180 | 180 | 180 | 184 | 184 | 196 | 189 |
| Above Normal Years (14%)                    | 185 | 213 | 229 | 192 | 182 | 181 | 182 | 183 | 188 | 184 | 197 | 190 |
| Below Normal Years (18%)                    | 334 | 306 | 222 | 197 | 189 | 186 | 187 | 186 | 198 | 197 | 236 | 313 |
| Dry Water Years (24%)                       | 371 | 345 | 256 | 223 | 194 | 190 | 189 | 189 | 201 | 223 | 312 | 362 |
| Critical Water Years (16%)                  | 517 | 455 | 302 | 280 | 212 | 205 | 207 | 241 | 318 | 326 | 411 | 450 |

**Table F.2.5-5-6c. Sacramento River at Rio Vista Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -1,690 | -1,675 | -93  | 58   | 7   | 4   | -1  | -130 | -1,052 | -2,403 | -3,207 | -1,781 |
| 20% Exceedance                              | -1,264 | -349   | 20   | 30   | 5   | 2   | 0   | -32  | -603   | -1,921 | -2,850 | -1,450 |
| 30% Exceedance                              | -705   | -83    | 43   | 15   | 5   | 4   | 0   | -9   | -360   | -1,614 | -2,495 | -1,260 |
| 40% Exceedance                              | -188   | -6     | 48   | 6    | 3   | 4   | 3   | -3   | -158   | -1,119 | -2,222 | -1,009 |
| 50% Exceedance                              | -110   | -17    | 23   | 6    | 2   | 3   | 3   | -2   | -81    | -876   | -2,097 | -741   |
| 60% Exceedance                              | -84    | -2     | 12   | 3    | 2   | 2   | 3   | -1   | -26    | -677   | -1,763 | -420   |
| 70% Exceedance                              | -43    | 7      | 3    | 1    | 1   | 1   | 3   | 0    | -7     | -366   | -1,025 | -205   |
| 80% Exceedance                              | -26    | 13     | 2    | 0    | 0   | 1   | 2   | 1    | -1     | -146   | -445   | -92    |
| 90% Exceedance                              | -14    | 2      | 1    | 0    | 0   | 0   | 1   | 1    | 1      | -63    | -190   | -41    |
| Full Simulation Period Average <sup>a</sup> | -582   | -389   | -49  | -17  | -2  | 2   | -7  | -47  | -307   | -1,077 | -1,820 | -837   |
| Wet Water Years (28%)                       | -51    | -8     | 30   | 1    | 0   | 1   | 1   | 0    | -16    | -290   | -690   | -159   |
| Above Normal Years (14%)                    | -147   | -36    | 36   | 10   | 1   | 1   | 2   | -1   | -55    | -669   | -1,500 | -468   |
| Below Normal Years (18%)                    | -384   | -135   | -14  | 10   | 3   | 3   | 3   | -14  | -238   | -1,240 | -2,317 | -823   |
| Dry Water Years (24%)                       | -719   | -390   | -88  | 27   | 6   | 4   | 0   | -33  | -419   | -1,559 | -2,536 | -1,210 |
| Critical Water Years (16%)                  | -2,029 | -1,760 | -259 | -167 | -29 | -1  | -53 | -225 | -944   | -1,907 | -2,443 | -1,802 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-5-7a. Sacramento River at Rio Vista Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 2,200 | 2,112 | 442 | 207 | 198 | 195 | 201 | 345 | 1,301 | 2,693 | 3,613 | 2,213 |
| 20% Exceedance                              | 1,678 | 764   | 272 | 196 | 190 | 191 | 193 | 225 | 810   | 2,165 | 3,191 | 1,841 |
| 30% Exceedance                              | 1,088 | 447   | 227 | 191 | 187 | 184 | 189 | 200 | 561   | 1,831 | 2,808 | 1,616 |
| 40% Exceedance                              | 531   | 304   | 204 | 187 | 185 | 183 | 185 | 193 | 356   | 1,327 | 2,486 | 1,345 |
| 50% Exceedance                              | 422   | 255   | 191 | 183 | 182 | 182 | 182 | 187 | 273   | 1,071 | 2,323 | 1,051 |
| 60% Exceedance                              | 273   | 225   | 186 | 182 | 181 | 180 | 180 | 184 | 217   | 863   | 1,965 | 615   |
| 70% Exceedance                              | 230   | 208   | 183 | 180 | 180 | 179 | 179 | 181 | 197   | 551   | 1,223 | 396   |
| 80% Exceedance                              | 211   | 193   | 180 | 179 | 179 | 179 | 178 | 178 | 186   | 331   | 641   | 281   |
| 90% Exceedance                              | 198   | 185   | 178 | 178 | 178 | 178 | 178 | 177 | 181   | 246   | 385   | 229   |
| Full Simulation Period Average <sup>a</sup> | 889   | 685   | 292 | 228 | 192 | 186 | 195 | 240 | 519   | 1,296 | 2,085 | 1,132 |
| Wet Water Years (28%)                       | 236   | 216   | 193 | 179 | 179 | 179 | 179 | 181 | 200   | 474   | 885   | 348   |
| Above Normal Years (14%)                    | 332   | 248   | 193 | 182 | 180 | 180 | 180 | 184 | 243   | 853   | 1,697 | 657   |
| Below Normal Years (18%)                    | 718   | 441   | 236 | 187 | 186 | 183 | 184 | 200 | 436   | 1,437 | 2,554 | 1,136 |
| Dry Water Years (24%)                       | 1,090 | 734   | 344 | 195 | 188 | 186 | 189 | 223 | 621   | 1,782 | 2,848 | 1,572 |
| Critical Water Years (16%)                  | 2,546 | 2,215 | 561 | 446 | 241 | 207 | 260 | 466 | 1,262 | 2,233 | 2,854 | 2,252 |

**Table F.2.5-5-7b. Sacramento River at Rio Vista Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 515 | 453 | 333 | 266 | 207 | 197 | 199 | 217 | 249 | 283 | 399 | 435 |
| 20% Exceedance                              | 404 | 411 | 286 | 229 | 195 | 194 | 194 | 194 | 210 | 235 | 331 | 392 |
| 30% Exceedance                              | 384 | 364 | 274 | 206 | 192 | 188 | 190 | 192 | 203 | 217 | 297 | 362 |
| 40% Exceedance                              | 335 | 289 | 253 | 192 | 188 | 187 | 188 | 191 | 199 | 209 | 257 | 342 |
| 50% Exceedance                              | 311 | 241 | 214 | 189 | 184 | 185 | 185 | 186 | 193 | 195 | 226 | 307 |
| 60% Exceedance                              | 188 | 221 | 199 | 185 | 183 | 183 | 184 | 184 | 192 | 187 | 202 | 193 |
| 70% Exceedance                              | 187 | 214 | 187 | 181 | 181 | 180 | 181 | 182 | 190 | 185 | 198 | 191 |
| 80% Exceedance                              | 185 | 206 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 196 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 183 | 194 | 187 |
| Full Simulation Period Average <sup>a</sup> | 307 | 297 | 245 | 212 | 192 | 188 | 189 | 194 | 213 | 217 | 262 | 295 |
| Wet Water Years (28%)                       | 186 | 207 | 224 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 196 | 189 |
| Above Normal Years (14%)                    | 185 | 212 | 228 | 192 | 182 | 181 | 183 | 184 | 188 | 184 | 196 | 189 |
| Below Normal Years (18%)                    | 328 | 303 | 221 | 198 | 189 | 186 | 188 | 187 | 198 | 198 | 231 | 313 |
| Dry Water Years (24%)                       | 372 | 345 | 253 | 223 | 194 | 190 | 190 | 190 | 202 | 222 | 303 | 366 |
| Critical Water Years (16%)                  | 523 | 466 | 316 | 288 | 225 | 206 | 207 | 241 | 318 | 317 | 406 | 445 |

**Table F.2.5-5-7c. Sacramento River at Rio Vista Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -1,685 | -1,659 | -109 | 59   | 9   | 2   | -2  | -128 | -1,052 | -2,411 | -3,213 | -1,778 |
| 20% Exceedance                              | -1,274 | -353   | 15   | 33   | 5   | 3   | 2   | -31  | -601   | -1,930 | -2,860 | -1,449 |
| 30% Exceedance                              | -704   | -84    | 47   | 15   | 5   | 4   | 1   | -8   | -358   | -1,614 | -2,511 | -1,255 |
| 40% Exceedance                              | -196   | -15    | 49   | 6    | 3   | 4   | 4   | -2   | -158   | -1,118 | -2,229 | -1,003 |
| 50% Exceedance                              | -111   | -14    | 24   | 6    | 2   | 3   | 3   | -1   | -80    | -876   | -2,097 | -744   |
| 60% Exceedance                              | -84    | -4     | 13   | 3    | 2   | 3   | 4   | 0    | -25    | -676   | -1,763 | -421   |
| 70% Exceedance                              | -43    | 6      | 4    | 1    | 1   | 1   | 2   | 0    | -7     | -366   | -1,025 | -205   |
| 80% Exceedance                              | -26    | 13     | 2    | 0    | 0   | 1   | 2   | 1    | -1     | -147   | -446   | -92    |
| 90% Exceedance                              | -14    | 3      | 1    | 0    | 0   | 0   | 1   | 1    | 1      | -63    | -191   | -42    |
| Full Simulation Period Average <sup>a</sup> | -582   | -388   | -47  | -15  | 0   | 2   | -7  | -46  | -306   | -1,079 | -1,824 | -837   |
| Wet Water Years (28%)                       | -50    | -8     | 31   | 1    | 0   | 1   | 1   | 0    | -16    | -290   | -690   | -159   |
| Above Normal Years (14%)                    | -146   | -36    | 35   | 10   | 1   | 1   | 3   | 0    | -54    | -669   | -1,500 | -468   |
| Below Normal Years (18%)                    | -390   | -137   | -15  | 10   | 3   | 3   | 4   | -13  | -237   | -1,239 | -2,323 | -823   |
| Dry Water Years (24%)                       | -718   | -389   | -91  | 28   | 6   | 4   | 1   | -33  | -419   | -1,560 | -2,544 | -1,205 |
| Critical Water Years (16%)                  | -2,023 | -1,750 | -245 | -159 | -16 | -1  | -52 | -225 | -944   | -1,916 | -2,448 | -1,807 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-5-8a. Sacramento River at Rio Vista Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 2,200 | 2,112 | 442 | 207 | 198 | 195 | 201 | 345 | 1,301 | 2,693 | 3,613 | 2,213 |
| 20% Exceedance                              | 1,678 | 764   | 272 | 196 | 190 | 191 | 193 | 225 | 810   | 2,165 | 3,191 | 1,841 |
| 30% Exceedance                              | 1,088 | 447   | 227 | 191 | 187 | 184 | 189 | 200 | 561   | 1,831 | 2,808 | 1,616 |
| 40% Exceedance                              | 531   | 304   | 204 | 187 | 185 | 183 | 185 | 193 | 356   | 1,327 | 2,486 | 1,345 |
| 50% Exceedance                              | 422   | 255   | 191 | 183 | 182 | 182 | 182 | 187 | 273   | 1,071 | 2,323 | 1,051 |
| 60% Exceedance                              | 273   | 225   | 186 | 182 | 181 | 180 | 180 | 184 | 217   | 863   | 1,965 | 615   |
| 70% Exceedance                              | 230   | 208   | 183 | 180 | 180 | 179 | 179 | 181 | 197   | 551   | 1,223 | 396   |
| 80% Exceedance                              | 211   | 193   | 180 | 179 | 179 | 179 | 178 | 178 | 186   | 331   | 641   | 281   |
| 90% Exceedance                              | 198   | 185   | 178 | 178 | 178 | 178 | 178 | 177 | 181   | 246   | 385   | 229   |
| Full Simulation Period Average <sup>a</sup> | 889   | 685   | 292 | 228 | 192 | 186 | 195 | 240 | 519   | 1,296 | 2,085 | 1,132 |
| Wet Water Years (28%)                       | 236   | 216   | 193 | 179 | 179 | 179 | 179 | 181 | 200   | 474   | 885   | 348   |
| Above Normal Years (14%)                    | 332   | 248   | 193 | 182 | 180 | 180 | 180 | 184 | 243   | 853   | 1,697 | 657   |
| Below Normal Years (18%)                    | 718   | 441   | 236 | 187 | 186 | 183 | 184 | 200 | 436   | 1,437 | 2,554 | 1,136 |
| Dry Water Years (24%)                       | 1,090 | 734   | 344 | 195 | 188 | 186 | 189 | 223 | 621   | 1,782 | 2,848 | 1,572 |
| Critical Water Years (16%)                  | 2,546 | 2,215 | 561 | 446 | 241 | 207 | 260 | 466 | 1,262 | 2,233 | 2,854 | 2,252 |

**Table F.2.5-5-8b. Sacramento River at Rio Vista Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 515 | 460 | 334 | 266 | 206 | 197 | 196 | 209 | 240 | 277 | 399 | 433 |
| 20% Exceedance                              | 404 | 411 | 286 | 231 | 195 | 194 | 193 | 192 | 208 | 240 | 332 | 390 |
| 30% Exceedance                              | 385 | 362 | 274 | 206 | 192 | 188 | 188 | 190 | 203 | 218 | 299 | 360 |
| 40% Exceedance                              | 338 | 296 | 251 | 192 | 188 | 187 | 187 | 187 | 197 | 209 | 257 | 331 |
| 50% Exceedance                              | 303 | 240 | 216 | 189 | 184 | 185 | 185 | 185 | 193 | 196 | 223 | 301 |
| 60% Exceedance                              | 188 | 221 | 199 | 185 | 183 | 183 | 183 | 183 | 192 | 187 | 201 | 193 |
| 70% Exceedance                              | 186 | 214 | 187 | 181 | 181 | 180 | 181 | 181 | 189 | 185 | 198 | 191 |
| 80% Exceedance                              | 185 | 206 | 182 | 180 | 179 | 179 | 179 | 179 | 185 | 184 | 195 | 189 |
| 90% Exceedance                              | 184 | 187 | 179 | 178 | 178 | 178 | 179 | 177 | 181 | 183 | 194 | 187 |
| Full Simulation Period Average <sup>a</sup> | 306 | 303 | 246 | 213 | 193 | 188 | 187 | 191 | 210 | 216 | 261 | 293 |
| Wet Water Years (28%)                       | 185 | 207 | 224 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 196 | 188 |
| Above Normal Years (14%)                    | 185 | 212 | 228 | 192 | 182 | 181 | 182 | 182 | 188 | 184 | 196 | 189 |
| Below Normal Years (18%)                    | 329 | 308 | 220 | 197 | 189 | 186 | 185 | 185 | 198 | 198 | 230 | 308 |
| Dry Water Years (24%)                       | 370 | 338 | 255 | 222 | 194 | 190 | 188 | 188 | 201 | 223 | 303 | 366 |
| Critical Water Years (16%)                  | 520 | 509 | 322 | 294 | 227 | 205 | 204 | 226 | 302 | 311 | 402 | 440 |

**Table F.2.5-5-8c. Sacramento River at Rio Vista Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -1,686 | -1,651 | -109 | 58   | 8   | 2   | -5  | -137 | -1,061 | -2,416 | -3,214 | -1,781 |
| 20% Exceedance                              | -1,275 | -354   | 14   | 35   | 5   | 3   | 0   | -34  | -603   | -1,925 | -2,859 | -1,451 |
| 30% Exceedance                              | -703   | -85    | 47   | 16   | 5   | 4   | -1  | -11  | -358   | -1,613 | -2,509 | -1,256 |
| 40% Exceedance                              | -193   | -8     | 47   | 6    | 3   | 4   | 2   | -6   | -159   | -1,118 | -2,230 | -1,014 |
| 50% Exceedance                              | -119   | -15    | 25   | 6    | 2   | 3   | 3   | -3   | -80    | -875   | -2,100 | -750   |
| 60% Exceedance                              | -84    | -3     | 13   | 3    | 2   | 3   | 3   | -2   | -25    | -676   | -1,764 | -421   |
| 70% Exceedance                              | -43    | 6      | 4    | 1    | 1   | 1   | 2   | 0    | -8     | -366   | -1,025 | -205   |
| 80% Exceedance                              | -26    | 13     | 2    | 0    | 0   | 1   | 2   | 1    | -1     | -147   | -446   | -92    |
| 90% Exceedance                              | -14    | 2      | 1    | 0    | 0   | 0   | 1   | 0    | 1      | -63    | -191   | -42    |
| Full Simulation Period Average <sup>a</sup> | -583   | -383   | -46  | -15  | 0   | 2   | -8  | -50  | -309   | -1,080 | -1,825 | -839   |
| Wet Water Years (28%)                       | -51    | -8     | 31   | 1    | 0   | 1   | 1   | 0    | -15    | -290   | -690   | -159   |
| Above Normal Years (14%)                    | -147   | -36    | 34   | 10   | 1   | 1   | 2   | -1   | -55    | -669   | -1,501 | -469   |
| Below Normal Years (18%)                    | -389   | -133   | -16  | 10   | 3   | 3   | 1   | -16  | -237   | -1,239 | -2,324 | -828   |
| Dry Water Years (24%)                       | -720   | -397   | -89  | 26   | 7   | 4   | -1  | -35  | -420   | -1,559 | -2,545 | -1,206 |
| Critical Water Years (16%)                  | -2,025 | -1,707 | -240 | -152 | -14 | -1  | -55 | -239 | -959   | -1,922 | -2,452 | -1,813 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-5-9a. Sacramento River at Rio Vista Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 2,200 | 2,112 | 442 | 207 | 198 | 195 | 201 | 345 | 1,301 | 2,693 | 3,613 | 2,213 |
| 20% Exceedance                              | 1,678 | 764   | 272 | 196 | 190 | 191 | 193 | 225 | 810   | 2,165 | 3,191 | 1,841 |
| 30% Exceedance                              | 1,088 | 447   | 227 | 191 | 187 | 184 | 189 | 200 | 561   | 1,831 | 2,808 | 1,616 |
| 40% Exceedance                              | 531   | 304   | 204 | 187 | 185 | 183 | 185 | 193 | 356   | 1,327 | 2,486 | 1,345 |
| 50% Exceedance                              | 422   | 255   | 191 | 183 | 182 | 182 | 182 | 187 | 273   | 1,071 | 2,323 | 1,051 |
| 60% Exceedance                              | 273   | 225   | 186 | 182 | 181 | 180 | 180 | 184 | 217   | 863   | 1,965 | 615   |
| 70% Exceedance                              | 230   | 208   | 183 | 180 | 180 | 179 | 179 | 181 | 197   | 551   | 1,223 | 396   |
| 80% Exceedance                              | 211   | 193   | 180 | 179 | 179 | 179 | 178 | 178 | 186   | 331   | 641   | 281   |
| 90% Exceedance                              | 198   | 185   | 178 | 178 | 178 | 178 | 178 | 177 | 181   | 246   | 385   | 229   |
| Full Simulation Period Average <sup>a</sup> | 889   | 685   | 292 | 228 | 192 | 186 | 195 | 240 | 519   | 1,296 | 2,085 | 1,132 |
| Wet Water Years (28%)                       | 236   | 216   | 193 | 179 | 179 | 179 | 179 | 181 | 200   | 474   | 885   | 348   |
| Above Normal Years (14%)                    | 332   | 248   | 193 | 182 | 180 | 180 | 180 | 184 | 243   | 853   | 1,697 | 657   |
| Below Normal Years (18%)                    | 718   | 441   | 236 | 187 | 186 | 183 | 184 | 200 | 436   | 1,437 | 2,554 | 1,136 |
| Dry Water Years (24%)                       | 1,090 | 734   | 344 | 195 | 188 | 186 | 189 | 223 | 621   | 1,782 | 2,848 | 1,572 |
| Critical Water Years (16%)                  | 2,546 | 2,215 | 561 | 446 | 241 | 207 | 260 | 466 | 1,262 | 2,233 | 2,854 | 2,252 |

**Table F.2.5-5-9b. Sacramento River at Rio Vista Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 481 | 489 | 331 | 265 | 205 | 202 | 205 | 240 | 398 | 450 | 459 | 430 |
| 20% Exceedance                              | 412 | 409 | 291 | 227 | 195 | 193 | 196 | 193 | 209 | 242 | 340 | 388 |
| 30% Exceedance                              | 381 | 367 | 273 | 206 | 191 | 188 | 189 | 191 | 202 | 217 | 311 | 356 |
| 40% Exceedance                              | 340 | 298 | 251 | 192 | 188 | 187 | 187 | 189 | 198 | 206 | 258 | 332 |
| 50% Exceedance                              | 310 | 239 | 214 | 189 | 184 | 185 | 185 | 185 | 193 | 194 | 227 | 303 |
| 60% Exceedance                              | 189 | 223 | 198 | 185 | 183 | 183 | 184 | 183 | 191 | 186 | 203 | 194 |
| 70% Exceedance                              | 187 | 215 | 187 | 181 | 181 | 180 | 181 | 181 | 190 | 186 | 198 | 191 |
| 80% Exceedance                              | 185 | 206 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 197 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 183 | 194 | 187 |
| Full Simulation Period Average <sup>a</sup> | 302 | 301 | 244 | 207 | 190 | 188 | 195 | 202 | 226 | 239 | 277 | 294 |
| Wet Water Years (28%)                       | 186 | 208 | 223 | 180 | 179 | 180 | 180 | 180 | 184 | 184 | 196 | 189 |
| Above Normal Years (14%)                    | 185 | 213 | 229 | 192 | 182 | 181 | 182 | 183 | 188 | 184 | 197 | 190 |
| Below Normal Years (18%)                    | 332 | 305 | 222 | 197 | 189 | 186 | 187 | 186 | 198 | 197 | 232 | 310 |
| Dry Water Years (24%)                       | 371 | 344 | 258 | 223 | 194 | 190 | 189 | 189 | 201 | 223 | 312 | 362 |
| Critical Water Years (16%)                  | 492 | 489 | 299 | 252 | 212 | 210 | 250 | 292 | 403 | 455 | 489 | 447 |

**Table F.2.5-5-9c. Sacramento River at Rio Vista Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun  | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|------|--------|--------|--------|
| 10% Exceedance                              | -1,719 | -1,623 | -111 | 58   | 7   | 7   | 4   | -105 | -903 | -2,243 | -3,153 | -1,783 |
| 20% Exceedance                              | -1,267 | -356   | 19   | 31   | 5   | 2   | 3   | -32  | -601 | -1,922 | -2,850 | -1,453 |
| 30% Exceedance                              | -707   | -81    | 46   | 15   | 4   | 4   | 0   | -9   | -359 | -1,614 | -2,498 | -1,260 |
| 40% Exceedance                              | -190   | -6     | 48   | 5    | 3   | 4   | 3   | -3   | -158 | -1,121 | -2,228 | -1,013 |
| 50% Exceedance                              | -112   | -16    | 23   | 5    | 2   | 3   | 3   | -2   | -81  | -876   | -2,097 | -748   |
| 60% Exceedance                              | -84    | -2     | 12   | 3    | 2   | 2   | 3   | -1   | -26  | -677   | -1,763 | -420   |
| 70% Exceedance                              | -43    | 7      | 3    | 1    | 1   | 1   | 3   | 0    | -7   | -366   | -1,024 | -205   |
| 80% Exceedance                              | -26    | 13     | 2    | 0    | 0   | 1   | 2   | 1    | -1   | -146   | -445   | -92    |
| 90% Exceedance                              | -14    | 2      | 1    | 0    | 0   | 0   | 1   | 1    | 1    | -63    | -191   | -41    |
| Full Simulation Period Average <sup>a</sup> | -586   | -385   | -49  | -21  | -2  | 2   | 0   | -38  | -293 | -1,057 | -1,808 | -838   |
| Wet Water Years (28%)                       | -51    | -8     | 30   | 1    | 0   | 1   | 1   | 0    | -16  | -290   | -690   | -159   |
| Above Normal Years (14%)                    | -147   | -35    | 36   | 10   | 1   | 1   | 2   | -1   | -55  | -669   | -1,500 | -468   |
| Below Normal Years (18%)                    | -386   | -135   | -13  | 10   | 3   | 3   | 3   | -14  | -238 | -1,240 | -2,322 | -826   |
| Dry Water Years (24%)                       | -719   | -391   | -86  | 28   | 6   | 4   | 0   | -33  | -419 | -1,559 | -2,536 | -1,210 |
| Critical Water Years (16%)                  | -2,054 | -1,727 | -262 | -194 | -29 | 4   | -10 | -173 | -859 | -1,778 | -2,365 | -1,805 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-5-10a. Sacramento River at Rio Vista Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 2,200 | 2,112 | 442 | 207 | 198 | 195 | 201 | 345 | 1,301 | 2,693 | 3,613 | 2,213 |
| 20% Exceedance                              | 1,678 | 764   | 272 | 196 | 190 | 191 | 193 | 225 | 810   | 2,165 | 3,191 | 1,841 |
| 30% Exceedance                              | 1,088 | 447   | 227 | 191 | 187 | 184 | 189 | 200 | 561   | 1,831 | 2,808 | 1,616 |
| 40% Exceedance                              | 531   | 304   | 204 | 187 | 185 | 183 | 185 | 193 | 356   | 1,327 | 2,486 | 1,345 |
| 50% Exceedance                              | 422   | 255   | 191 | 183 | 182 | 182 | 182 | 187 | 273   | 1,071 | 2,323 | 1,051 |
| 60% Exceedance                              | 273   | 225   | 186 | 182 | 181 | 180 | 180 | 184 | 217   | 863   | 1,965 | 615   |
| 70% Exceedance                              | 230   | 208   | 183 | 180 | 180 | 179 | 179 | 181 | 197   | 551   | 1,223 | 396   |
| 80% Exceedance                              | 211   | 193   | 180 | 179 | 179 | 179 | 178 | 178 | 186   | 331   | 641   | 281   |
| 90% Exceedance                              | 198   | 185   | 178 | 178 | 178 | 178 | 178 | 177 | 181   | 246   | 385   | 229   |
| Full Simulation Period Average <sup>a</sup> | 889   | 685   | 292 | 228 | 192 | 186 | 195 | 240 | 519   | 1,296 | 2,085 | 1,132 |
| Wet Water Years (28%)                       | 236   | 216   | 193 | 179 | 179 | 179 | 179 | 181 | 200   | 474   | 885   | 348   |
| Above Normal Years (14%)                    | 332   | 248   | 193 | 182 | 180 | 180 | 180 | 184 | 243   | 853   | 1,697 | 657   |
| Below Normal Years (18%)                    | 718   | 441   | 236 | 187 | 186 | 183 | 184 | 200 | 436   | 1,437 | 2,554 | 1,136 |
| Dry Water Years (24%)                       | 1,090 | 734   | 344 | 195 | 188 | 186 | 189 | 223 | 621   | 1,782 | 2,848 | 1,572 |
| Critical Water Years (16%)                  | 2,546 | 2,215 | 561 | 446 | 241 | 207 | 260 | 466 | 1,262 | 2,233 | 2,854 | 2,252 |

**Table F.2.5-5-10b. Sacramento River at Rio Vista Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 477 | 491 | 342 | 268 | 209 | 202 | 218 | 248 | 399 | 411 | 439 | 449 |
| 20% Exceedance                              | 414 | 402 | 288 | 238 | 196 | 193 | 195 | 192 | 207 | 226 | 318 | 391 |
| 30% Exceedance                              | 377 | 368 | 275 | 205 | 191 | 188 | 189 | 190 | 201 | 216 | 286 | 353 |
| 40% Exceedance                              | 343 | 315 | 252 | 192 | 188 | 187 | 188 | 188 | 197 | 206 | 260 | 333 |
| 50% Exceedance                              | 313 | 241 | 221 | 189 | 185 | 185 | 186 | 186 | 193 | 193 | 224 | 299 |
| 60% Exceedance                              | 189 | 225 | 198 | 185 | 183 | 183 | 184 | 184 | 191 | 186 | 201 | 193 |
| 70% Exceedance                              | 187 | 217 | 187 | 181 | 181 | 180 | 181 | 182 | 189 | 185 | 196 | 190 |
| 80% Exceedance                              | 185 | 208 | 182 | 180 | 179 | 179 | 180 | 179 | 185 | 184 | 194 | 189 |
| 90% Exceedance                              | 184 | 188 | 179 | 178 | 178 | 178 | 179 | 178 | 181 | 182 | 191 | 187 |
| Full Simulation Period Average <sup>a</sup> | 303 | 306 | 244 | 210 | 191 | 188 | 196 | 203 | 227 | 238 | 273 | 293 |
| Wet Water Years (28%)                       | 185 | 208 | 221 | 180 | 179 | 180 | 180 | 180 | 185 | 184 | 194 | 188 |
| Above Normal Years (14%)                    | 186 | 214 | 230 | 192 | 182 | 181 | 182 | 183 | 188 | 183 | 194 | 189 |
| Below Normal Years (18%)                    | 334 | 315 | 223 | 197 | 189 | 186 | 187 | 185 | 198 | 197 | 233 | 313 |
| Dry Water Years (24%)                       | 367 | 340 | 257 | 226 | 195 | 190 | 189 | 189 | 199 | 218 | 297 | 355 |
| Critical Water Years (16%)                  | 498 | 518 | 305 | 269 | 214 | 210 | 256 | 302 | 411 | 459 | 490 | 451 |

**Table F.2.5-5-10c. Sacramento River at Rio Vista Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun  | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|------|--------|--------|--------|
| 10% Exceedance                              | -1,723 | -1,621 | -101 | 60   | 11  | 7   | 17  | -97  | -901 | -2,282 | -3,174 | -1,764 |
| 20% Exceedance                              | -1,264 | -363   | 16   | 42   | 6   | 2   | 2   | -33  | -603 | -1,938 | -2,873 | -1,449 |
| 30% Exceedance                              | -711   | -79    | 48   | 14   | 4   | 4   | 1   | -10  | -361 | -1,615 | -2,522 | -1,263 |
| 40% Exceedance                              | -188   | 11     | 48   | 5    | 3   | 4   | 3   | -5   | -159 | -1,120 | -2,226 | -1,012 |
| 50% Exceedance                              | -109   | -14    | 30   | 5    | 2   | 3   | 4   | -1   | -80  | -878   | -2,099 | -751   |
| 60% Exceedance                              | -84    | 0      | 12   | 3    | 2   | 2   | 3   | -1   | -26  | -677   | -1,764 | -421   |
| 70% Exceedance                              | -43    | 9      | 4    | 1    | 1   | 1   | 3   | 0    | -8   | -366   | -1,027 | -206   |
| 80% Exceedance                              | -26    | 15     | 2    | 0    | 0   | 1   | 2   | 1    | -1   | -147   | -447   | -92    |
| 90% Exceedance                              | -14    | 2      | 1    | 0    | 0   | 0   | 1   | 1    | 1    | -64    | -193   | -42    |
| Full Simulation Period Average <sup>a</sup> | -586   | -379   | -48  | -18  | -2  | 2   | 1   | -37  | -292 | -1,058 | -1,812 | -839   |
| Wet Water Years (28%)                       | -51    | -8     | 28   | 1    | 0   | 1   | 1   | 0    | -15  | -291   | -691   | -160   |
| Above Normal Years (14%)                    | -146   | -34    | 36   | 10   | 1   | 1   | 2   | 0    | -55  | -670   | -1,503 | -468   |
| Below Normal Years (18%)                    | -385   | -126   | -13  | 10   | 3   | 3   | 3   | -15  | -238 | -1,241 | -2,321 | -824   |
| Dry Water Years (24%)                       | -723   | -394   | -87  | 30   | 7   | 4   | 0   | -34  | -422 | -1,564 | -2,551 | -1,217 |
| Critical Water Years (16%)                  | -2,047 | -1,698 | -256 | -178 | -27 | 3   | -4  | -163 | -851 | -1,774 | -2,364 | -1,802 |

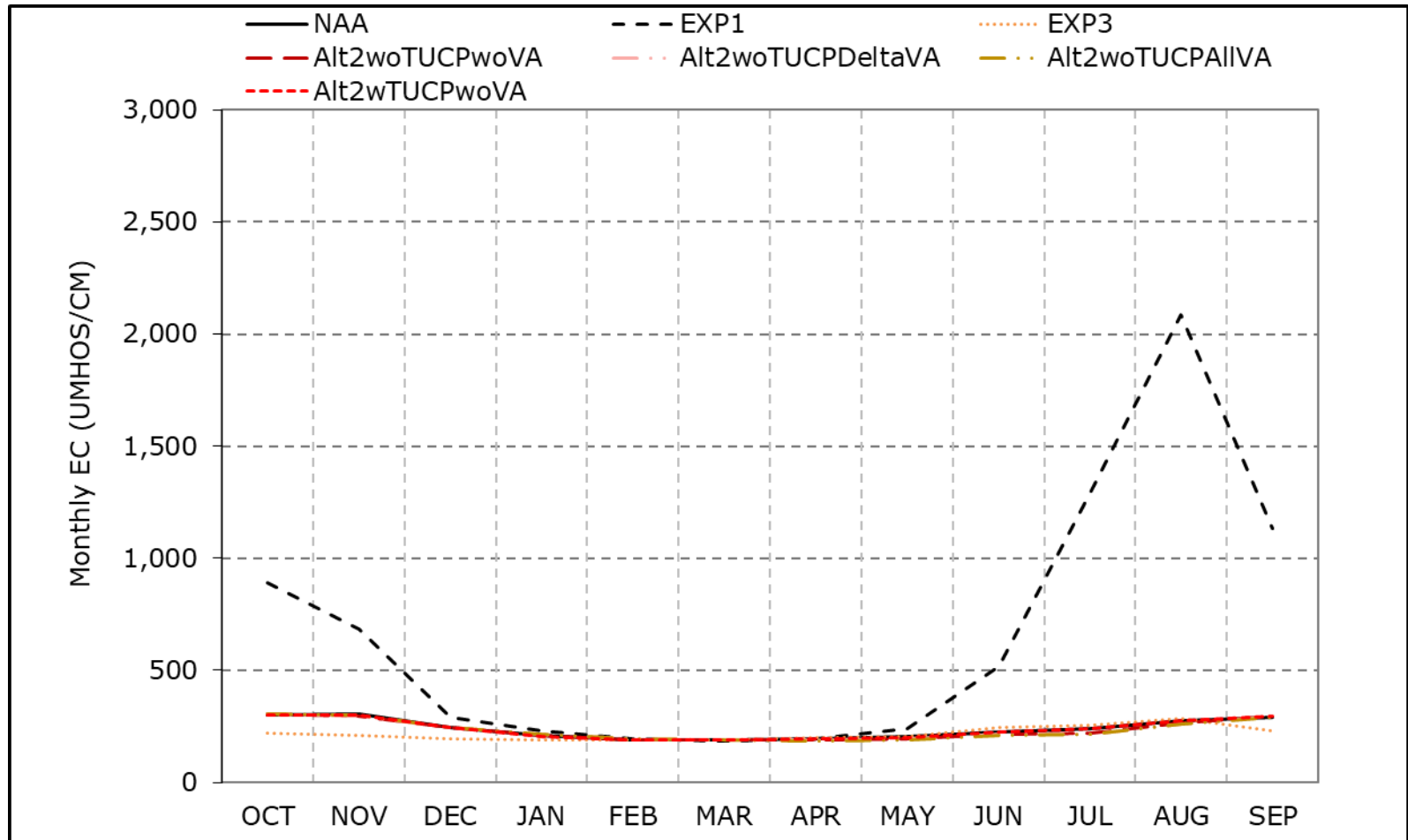
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-5-1. Sacramento River at Rio Vista Salinity, Long-Term Average EC**

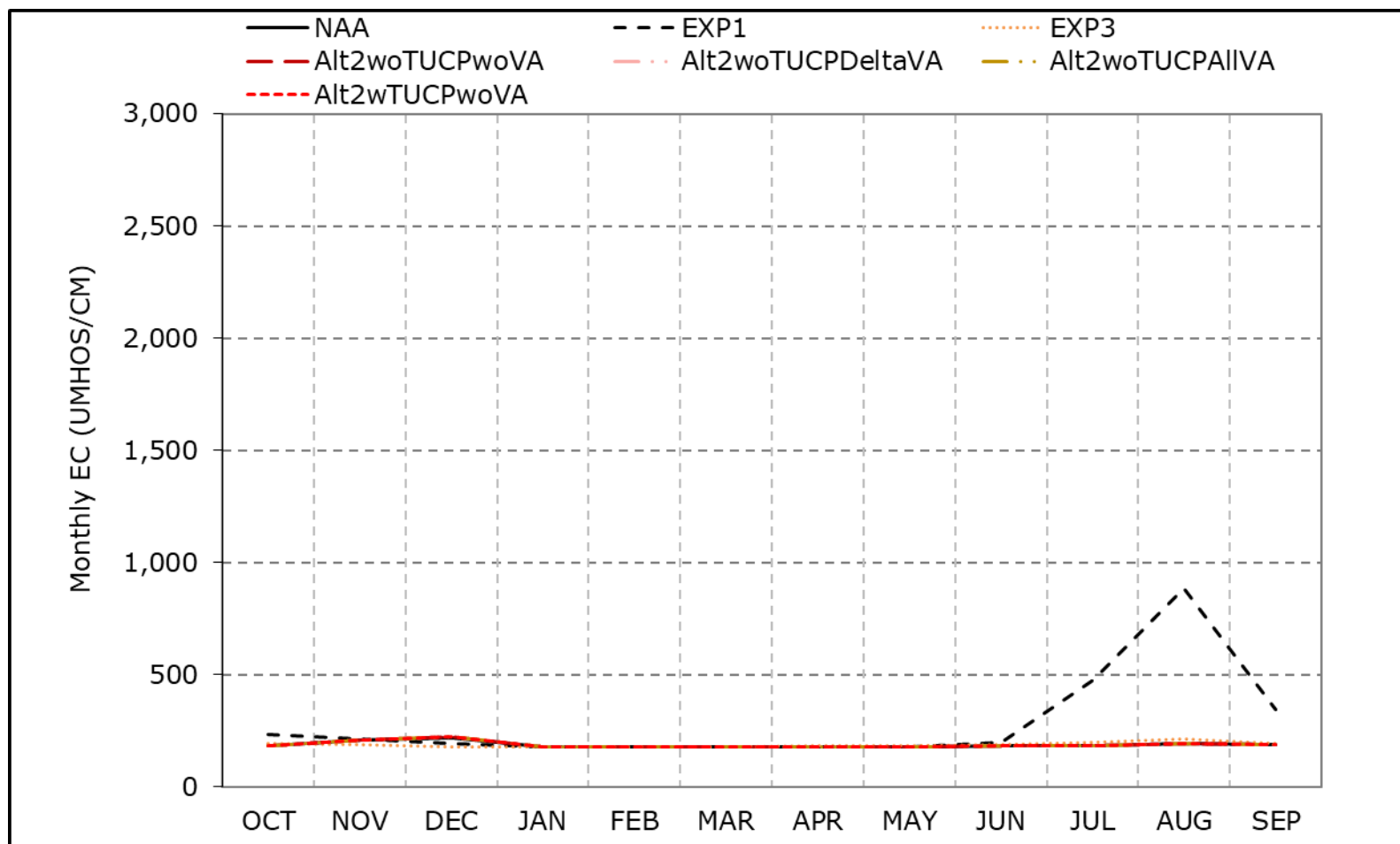


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-2. Sacramento River at Rio Vista Salinity, Wet Year Average EC**

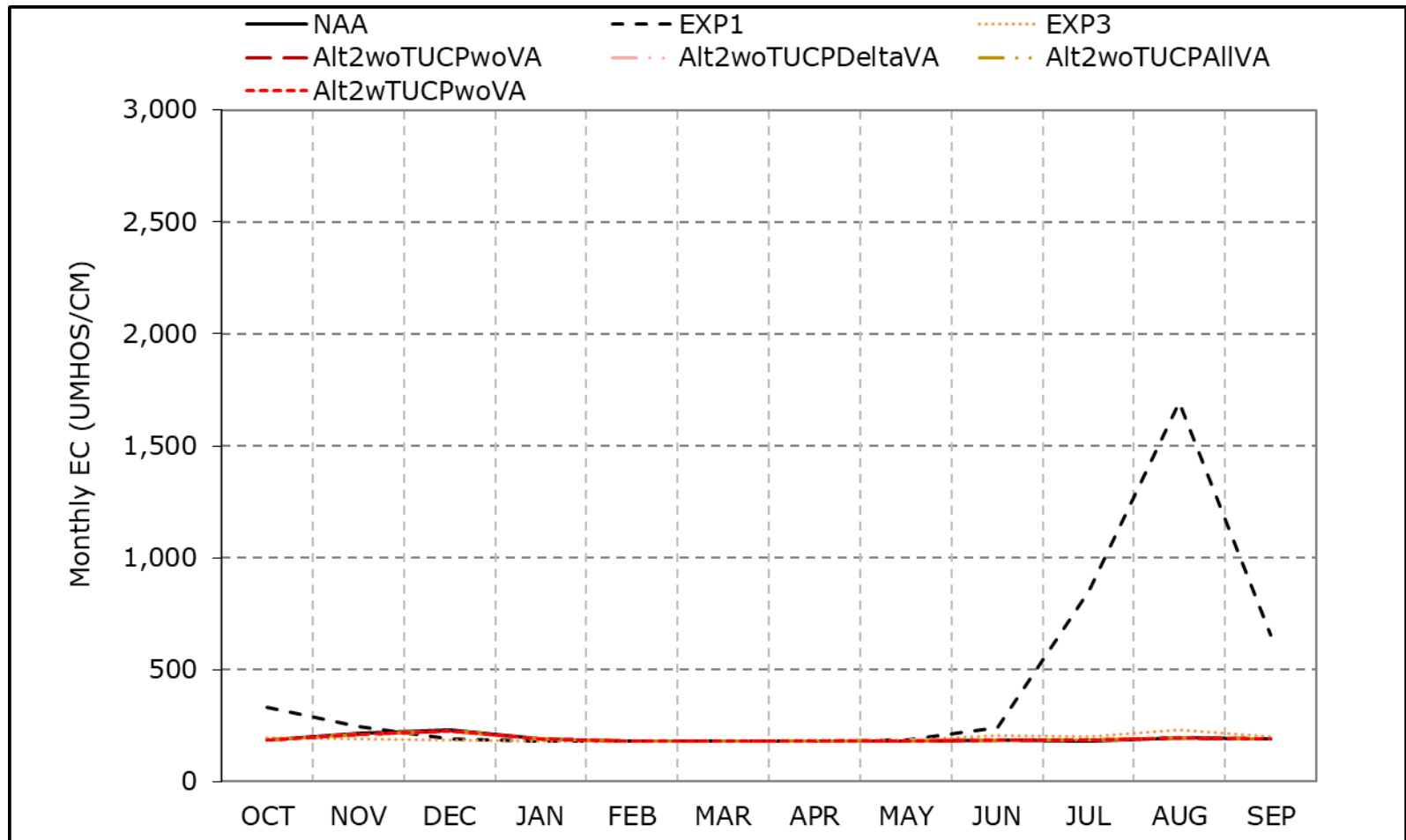


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-3. Sacramento River at Rio Vista Salinity, Above Normal Year Average EC**

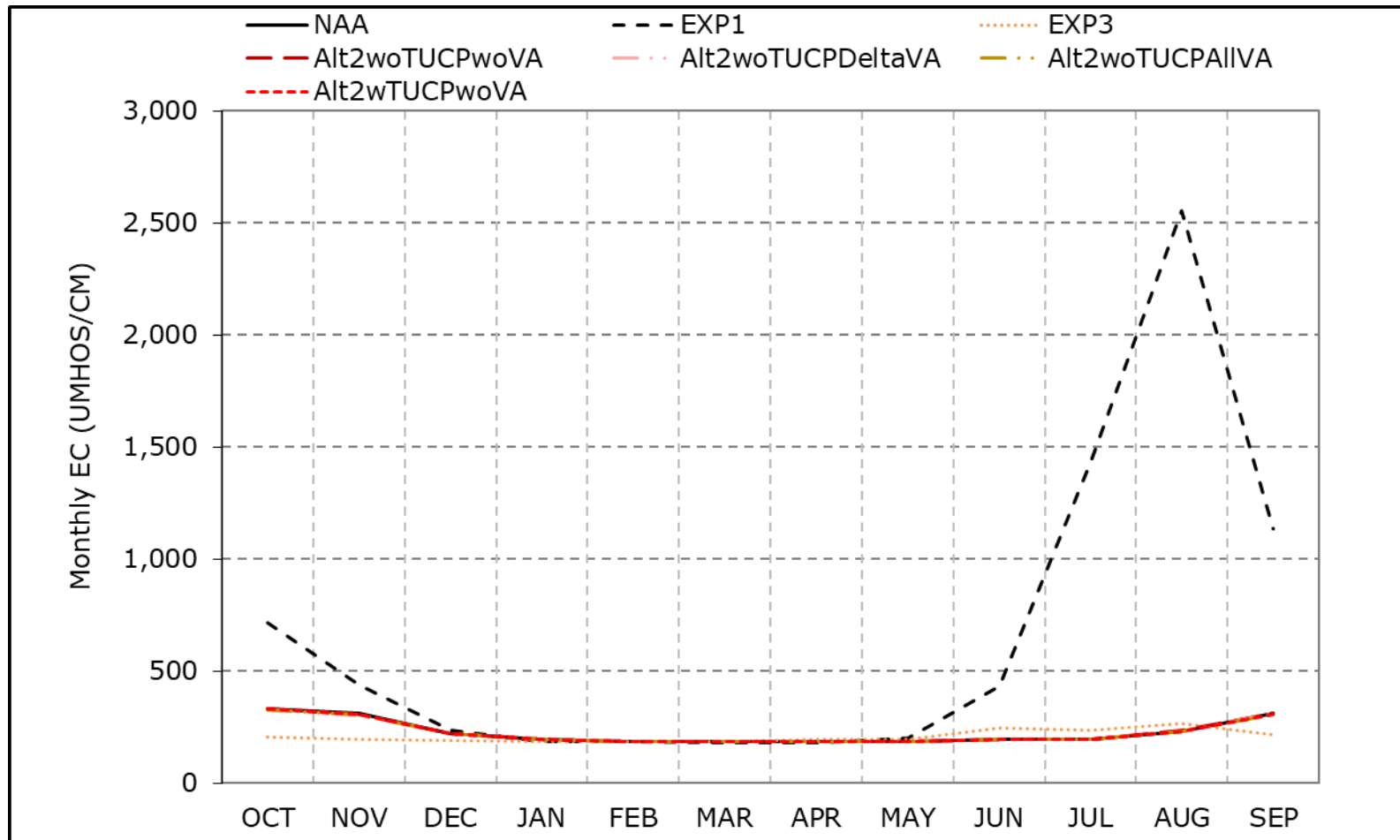


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-4. Sacramento River at Rio Vista Salinity, Below Normal Year Average EC**



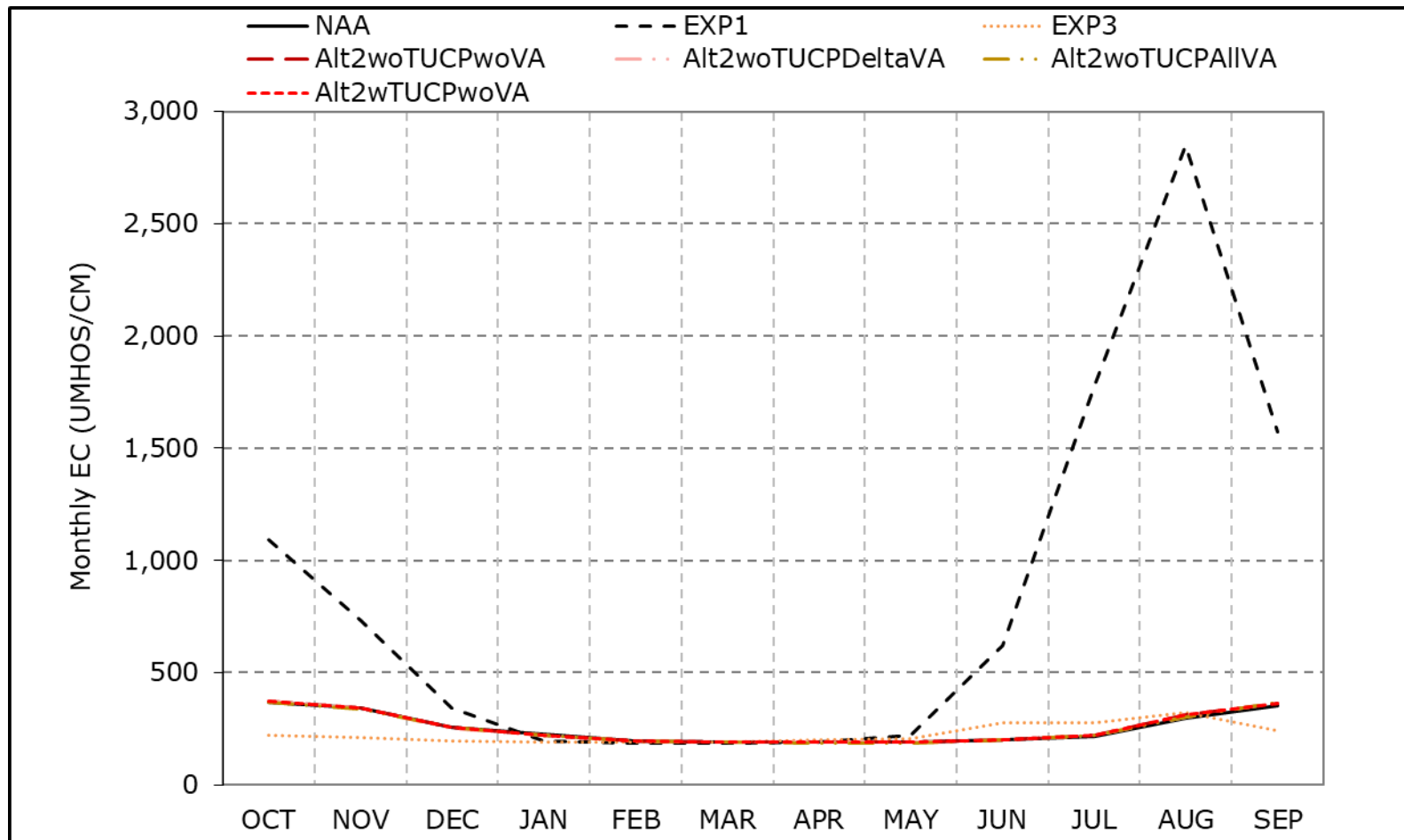
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-5-5. Sacramento River at Rio Vista Salinity, Dry Year Average EC**

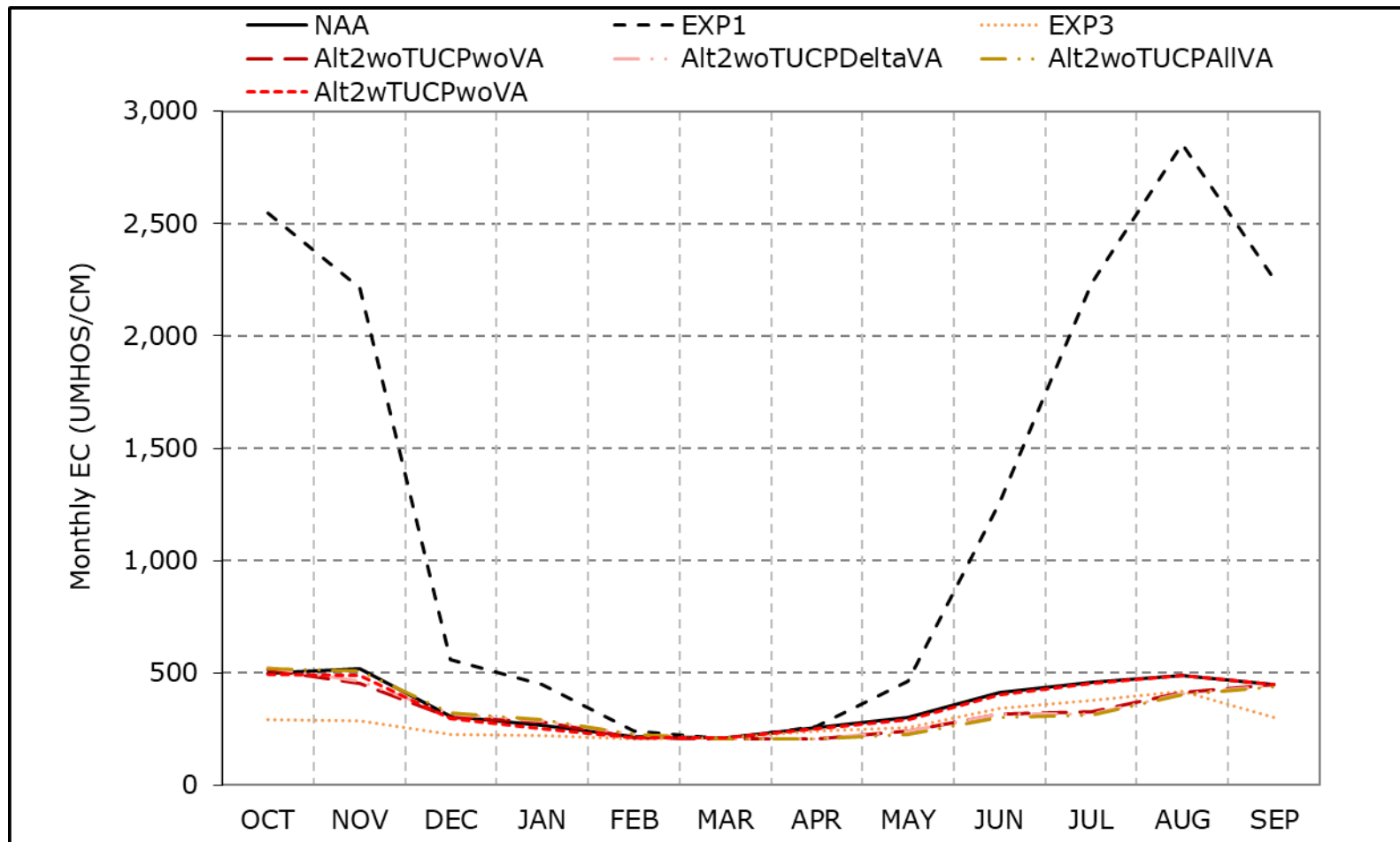


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-6. Sacramento River at Rio Vista Salinity, Critical Year Average EC**

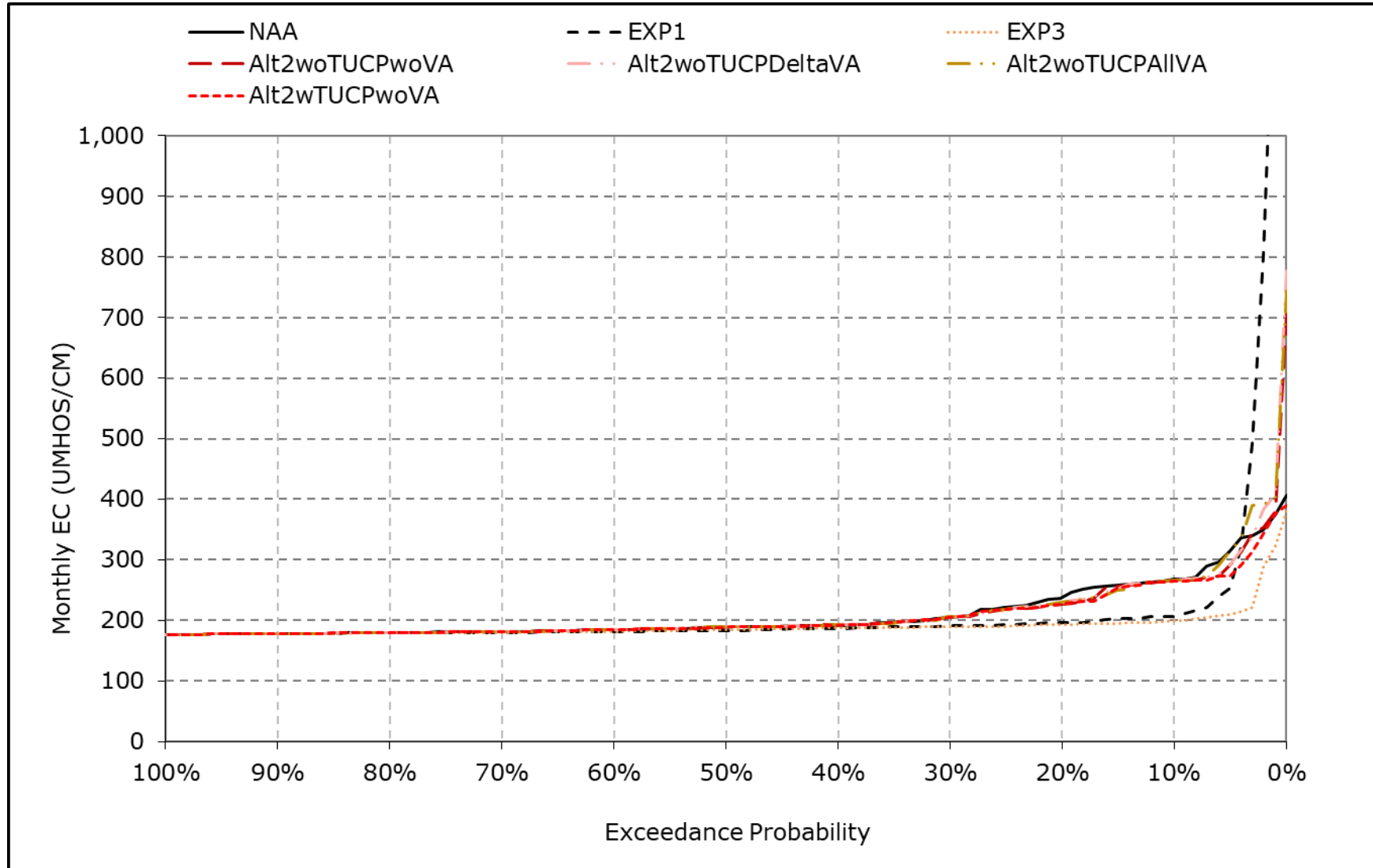


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

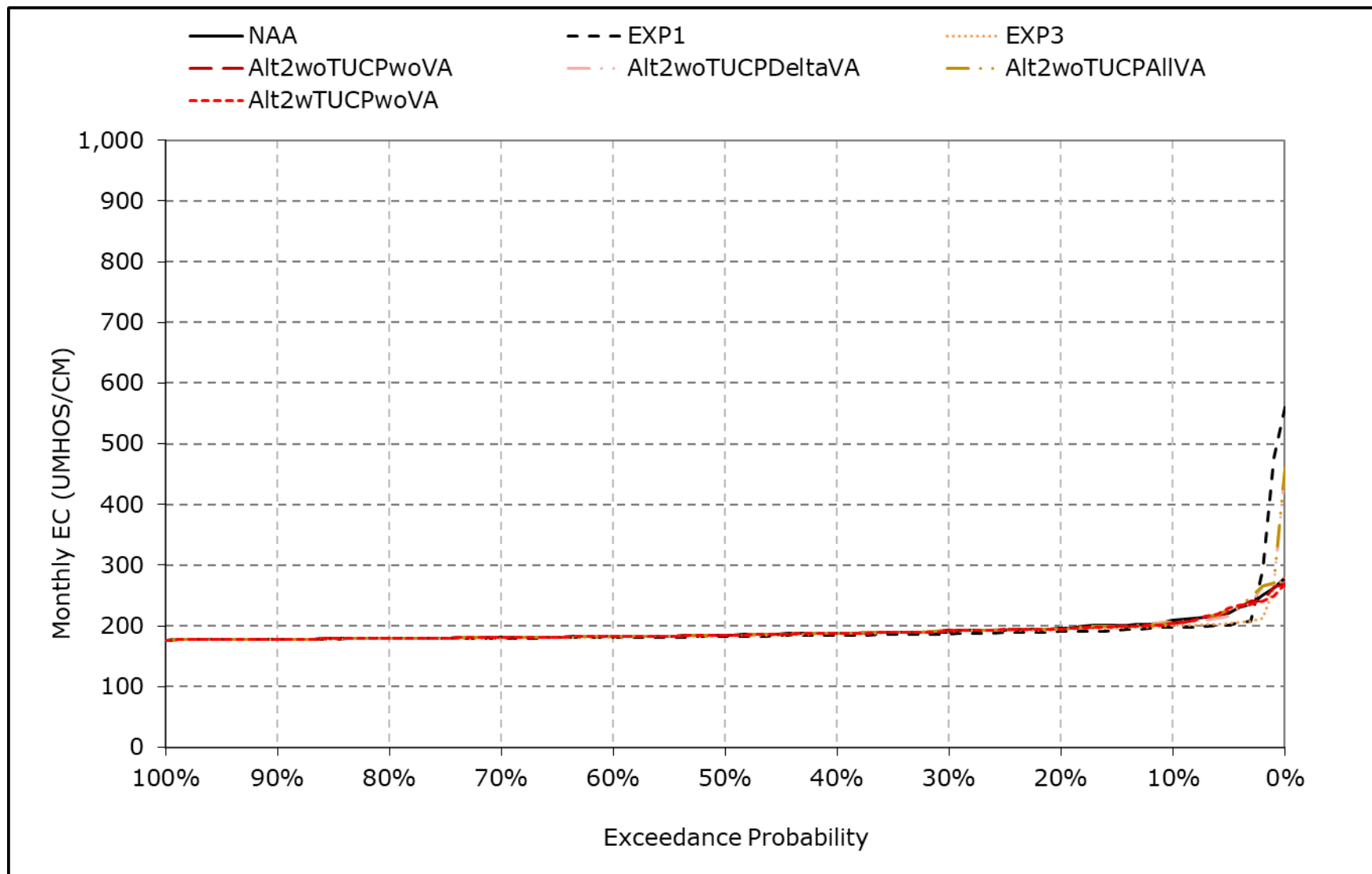
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-7. Sacramento River at Rio Vista Salinity, January EC**



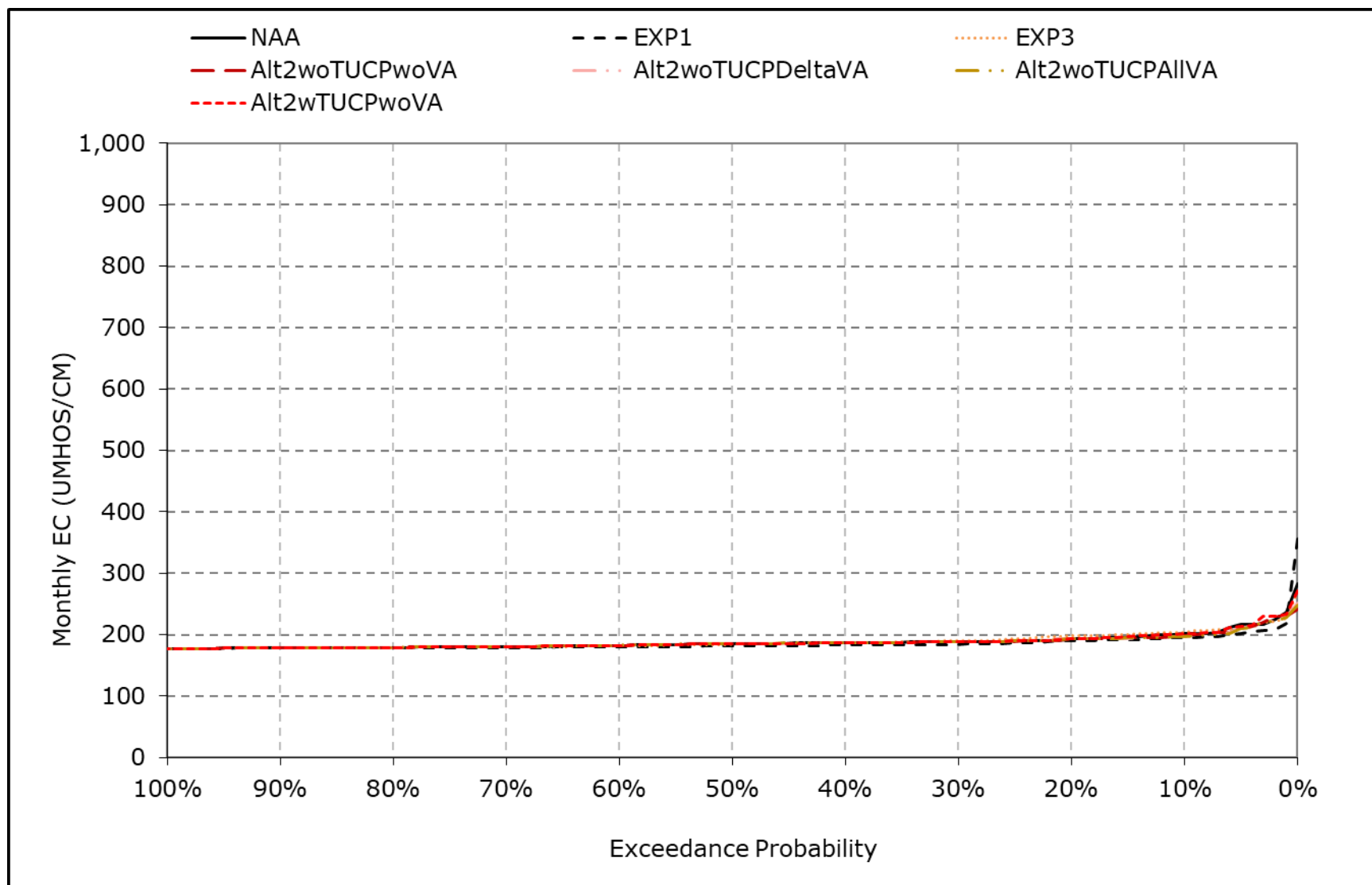
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-8. Sacramento River at Rio Vista Salinity, February EC**



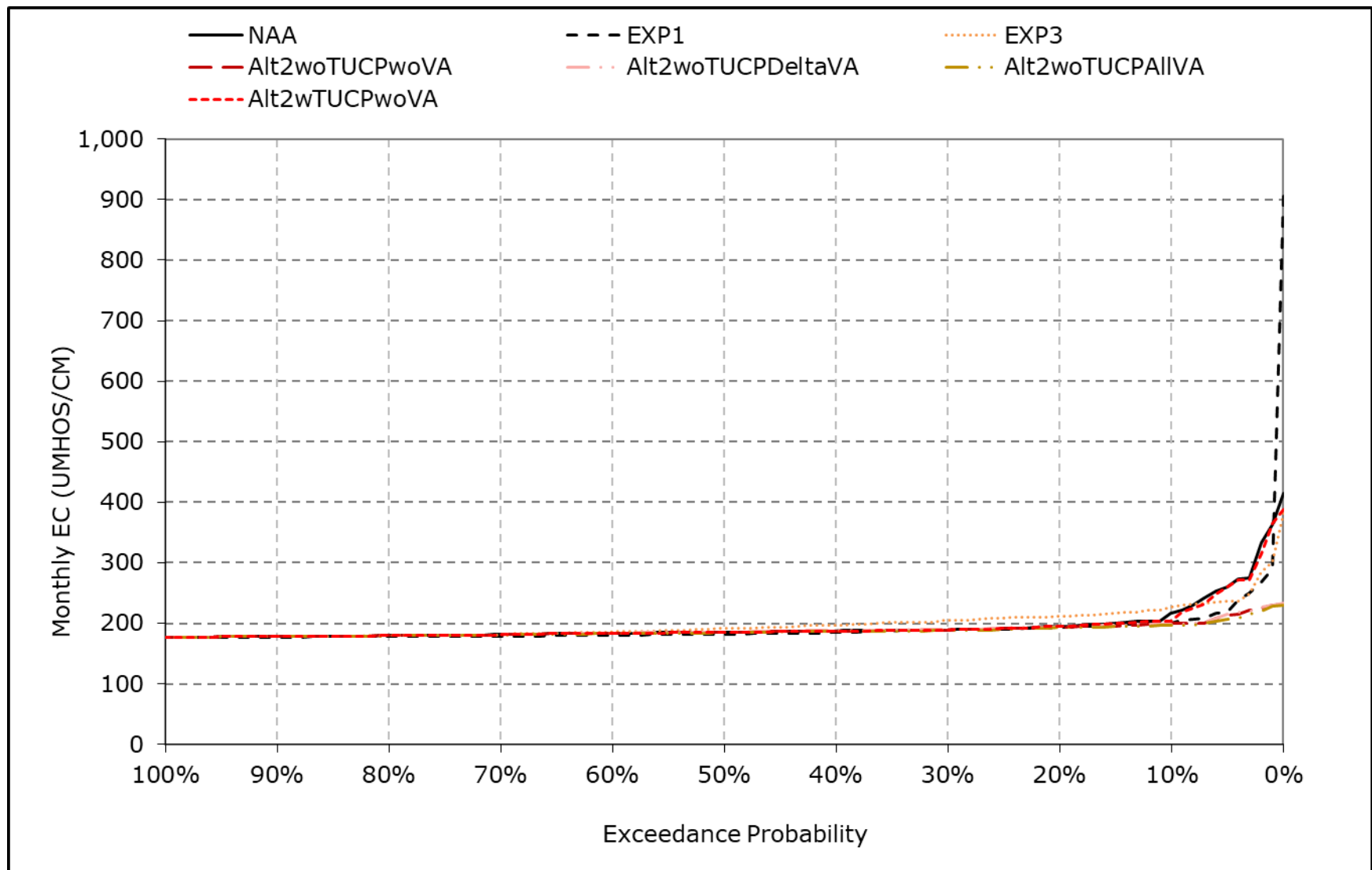
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-9. Sacramento River at Rio Vista Salinity, March EC**



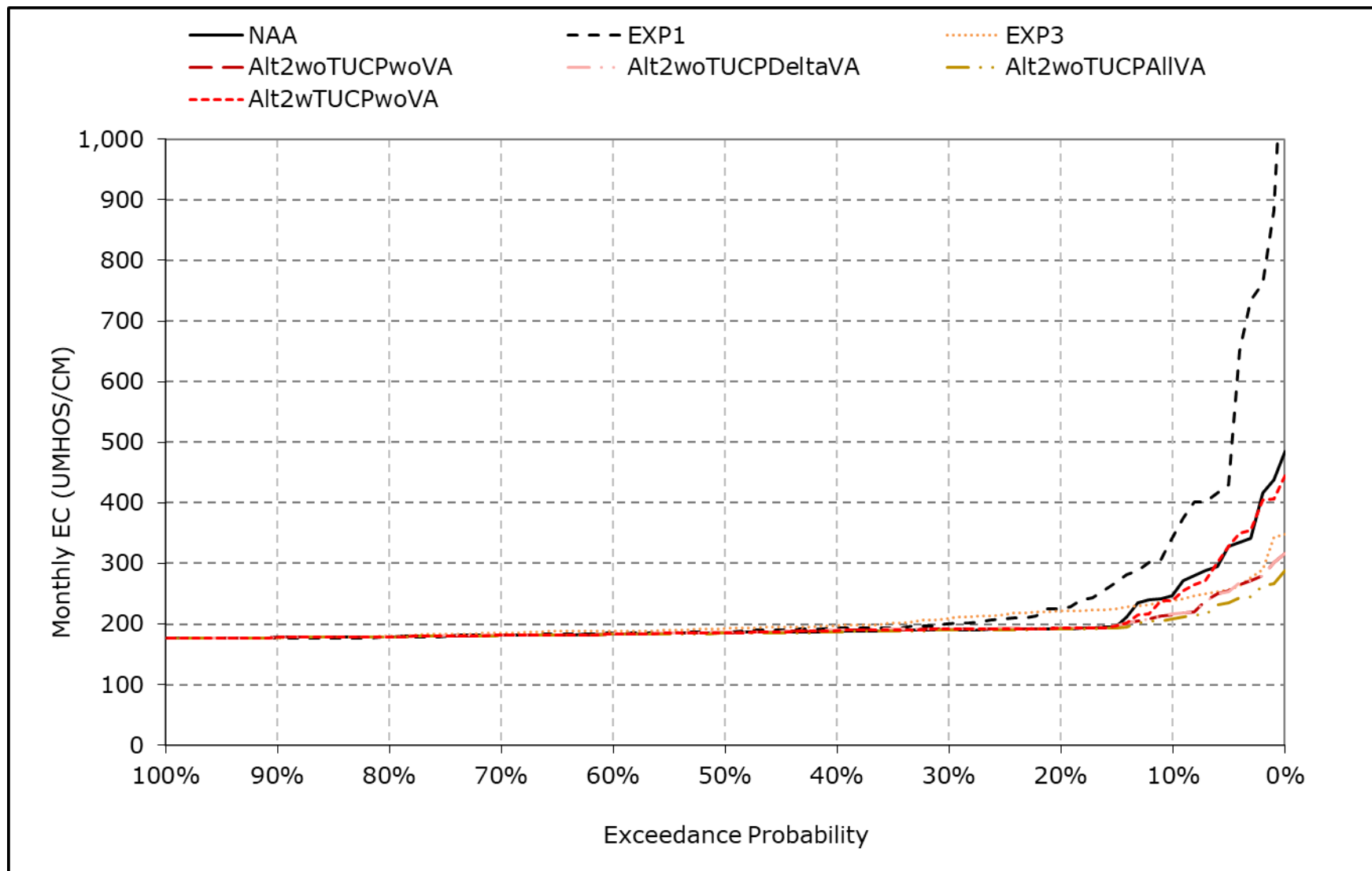
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-10. Sacramento River at Rio Vista Salinity, April EC**



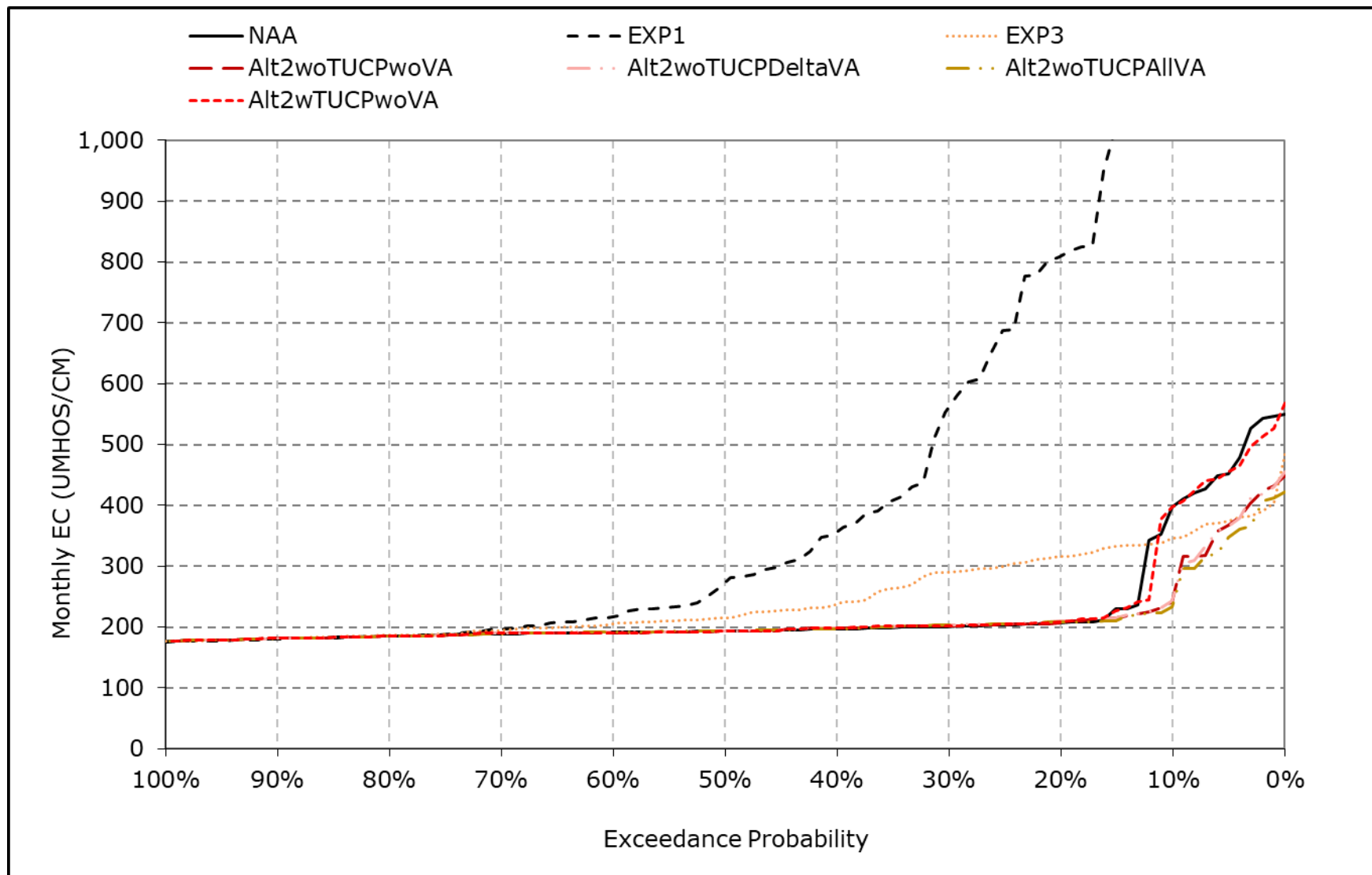
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-11. Sacramento River at Rio Vista Salinity, May EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

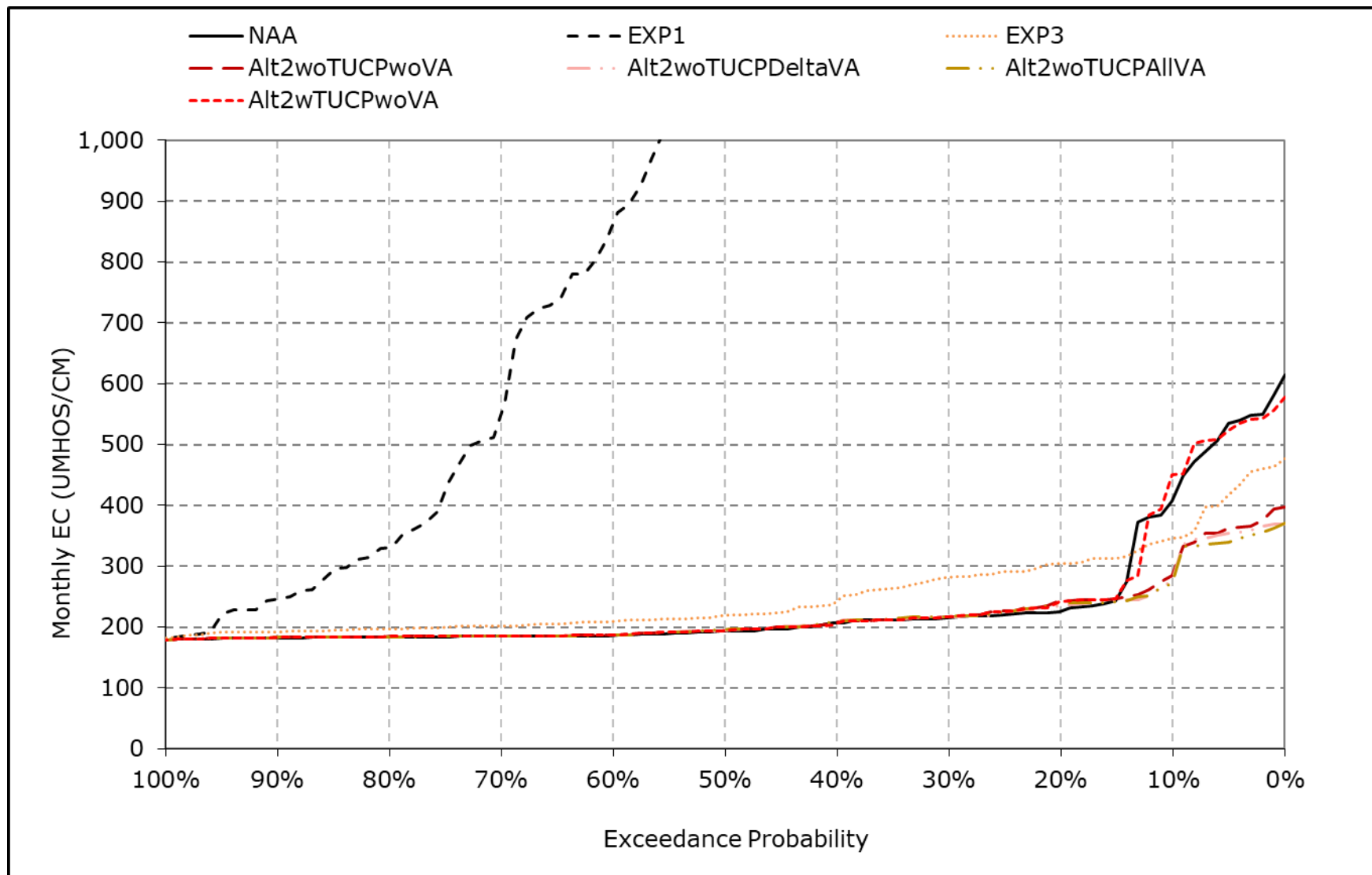
**Figure F.2.5-5-12. Sacramento River at Rio Vista Salinity, June EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

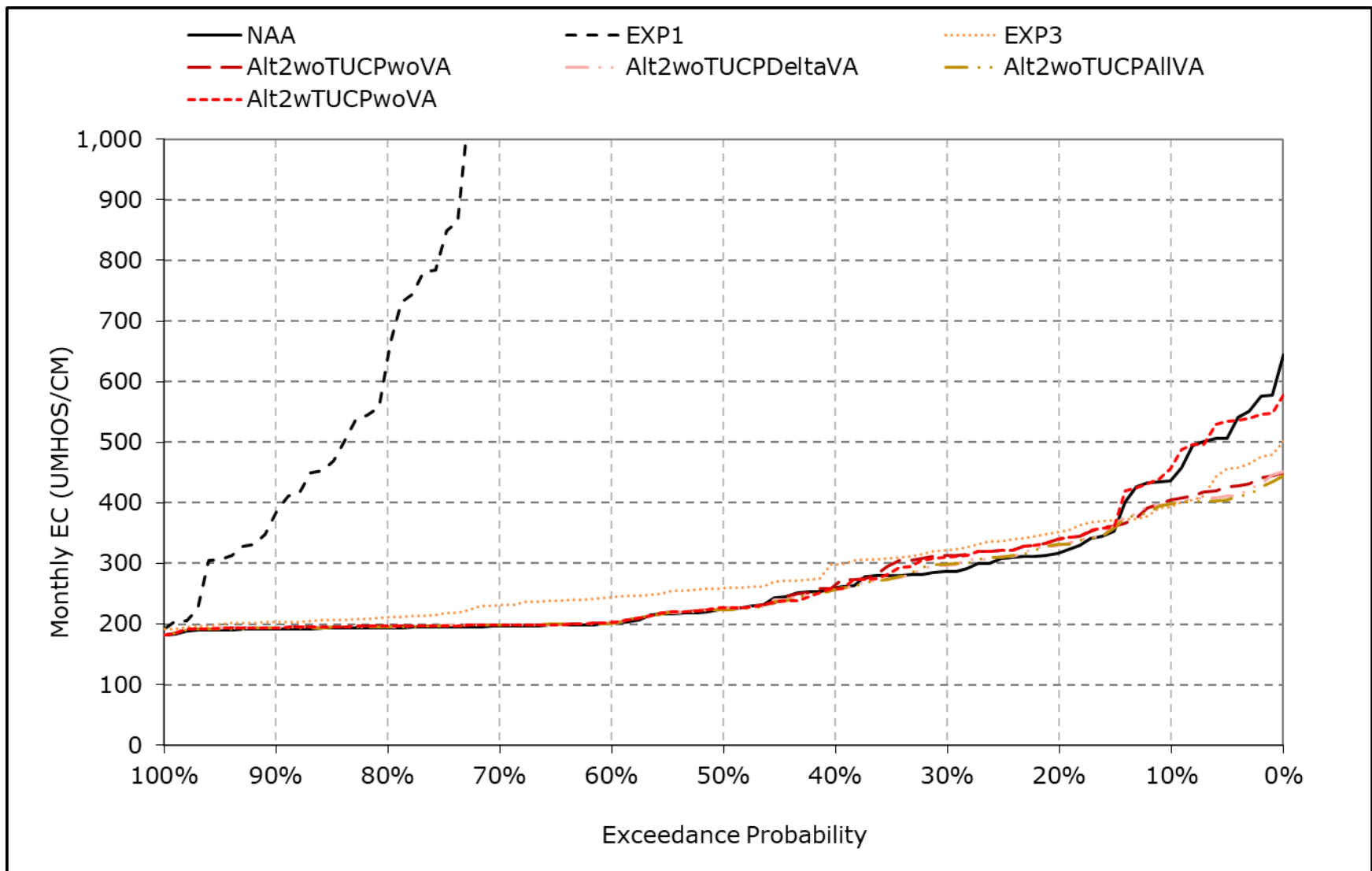


**Figure F.2.5-5-13. Sacramento River at Rio Vista Salinity, July EC**



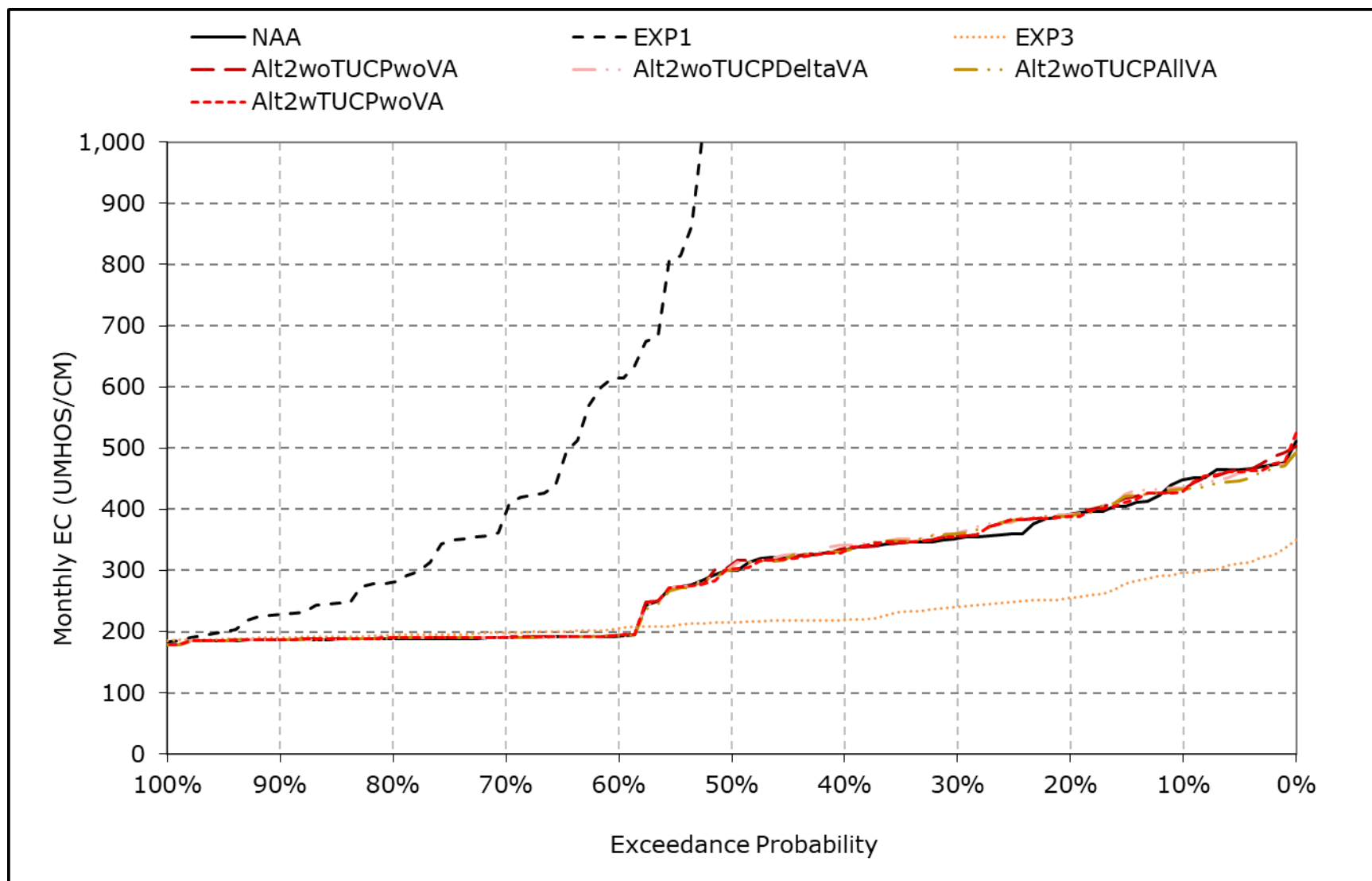
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-14. Sacramento River at Rio Vista Salinity, August EC**



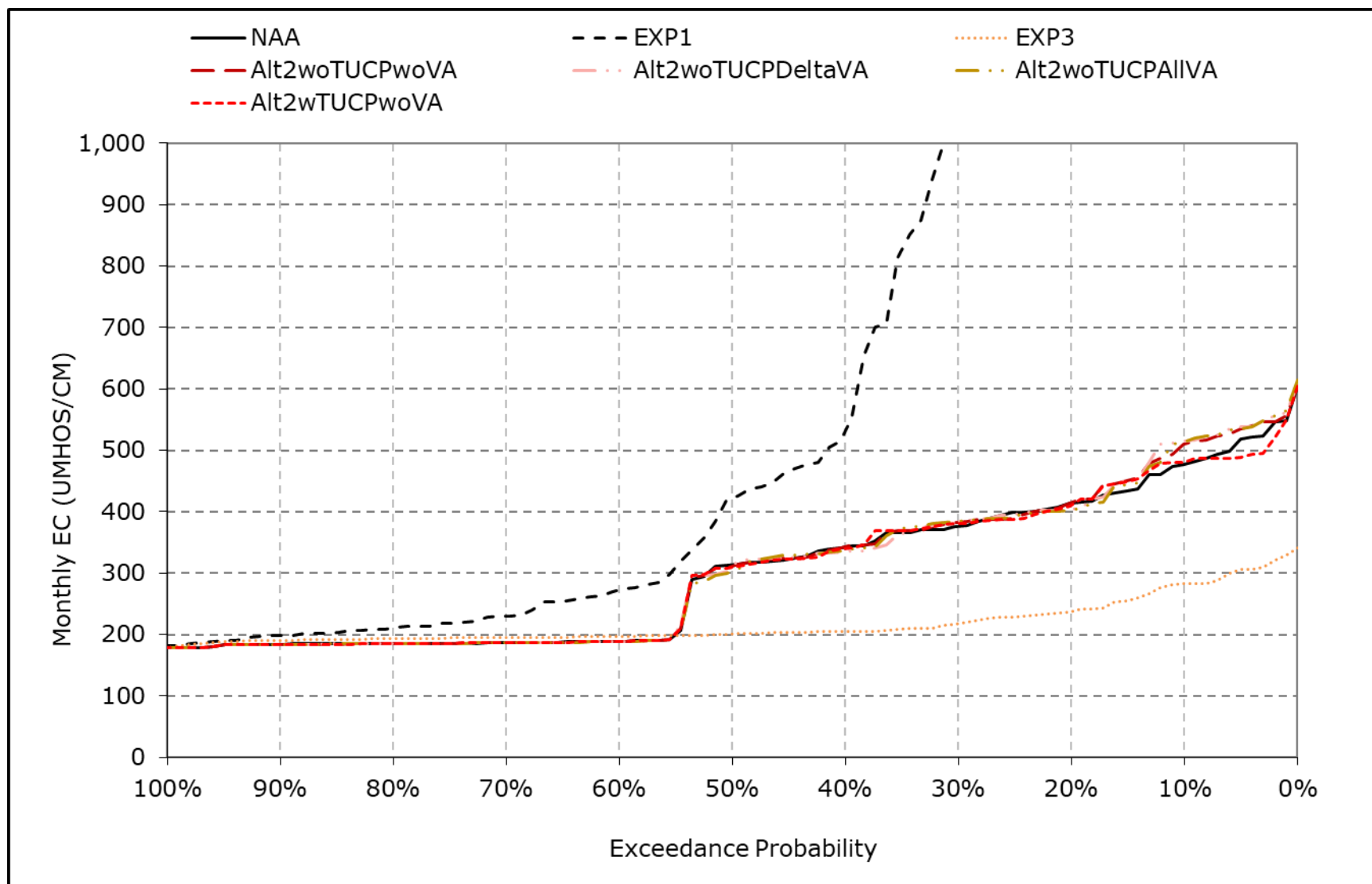
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-15. Sacramento River at Rio Vista Salinity, September EC**



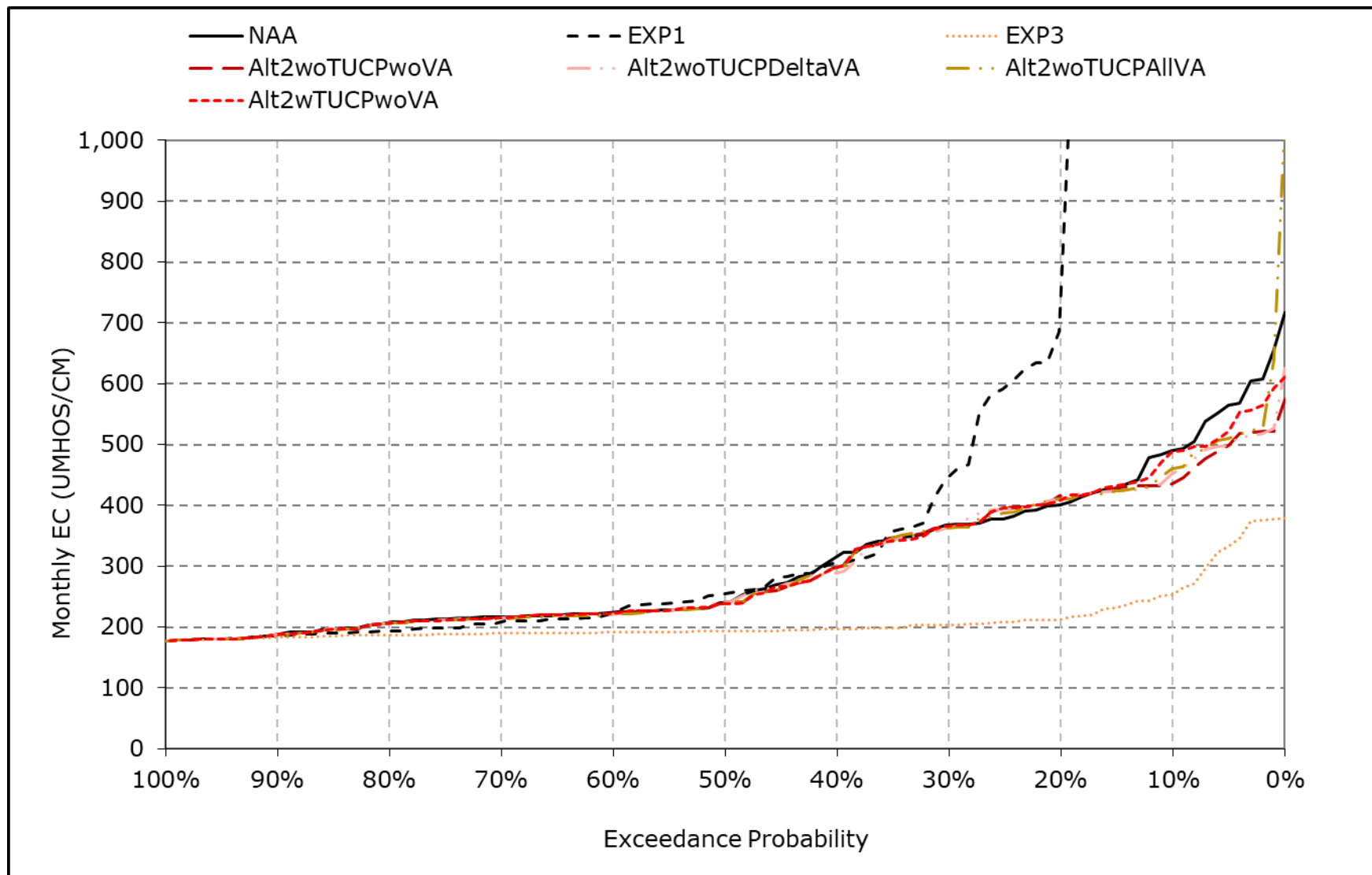
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-16. Sacramento River at Rio Vista Salinity, October EC**



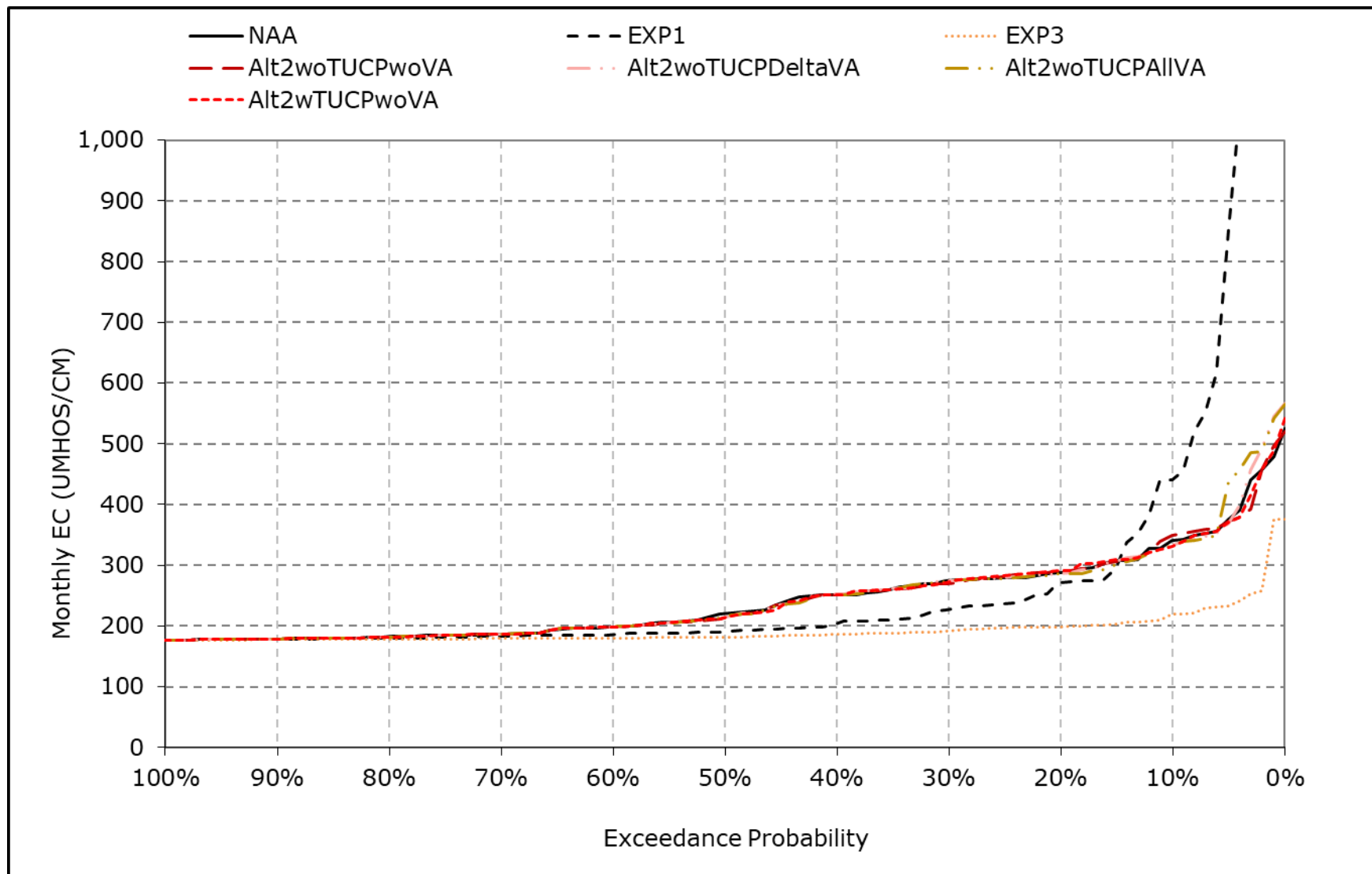
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-17. Sacramento River at Rio Vista Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-5-18. Sacramento River at Rio Vista Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-6-1a. San Joaquin River at Vernalis Salinity (40-30-30), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (28%)                       | 548 | 650 | 612 | 486 | 381 | 318 | 246 | 211 | 343 | 495 | 522 | 521 |
| Above Normal Years (14%)                    | 615 | 714 | 721 | 652 | 558 | 513 | 422 | 383 | 475 | 565 | 579 | 586 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 655 | 591 | 646 | 477 | 431 | 522 | 585 | 596 | 605 |
| Dry Water Years (24%)                       | 667 | 738 | 692 | 685 | 693 | 770 | 576 | 502 | 583 | 619 | 615 | 615 |
| Critical Water Years (16%)                  | 680 | 743 | 742 | 719 | 719 | 799 | 599 | 545 | 597 | 639 | 628 | 634 |

**Table F.2.5-6-1b. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 693 | 764 | 786 | 772 | 732 | 820 | 607 | 552 | 607 | 641 | 631 | 632 |
| 20% Exceedance                              | 679 | 748 | 743 | 716 | 714 | 804 | 601 | 537 | 595 | 636 | 622 | 628 |
| 30% Exceedance                              | 671 | 738 | 730 | 706 | 699 | 783 | 589 | 521 | 588 | 613 | 613 | 622 |
| 40% Exceedance                              | 663 | 733 | 721 | 700 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 614 |
| 50% Exceedance                              | 650 | 724 | 711 | 687 | 678 | 742 | 515 | 460 | 547 | 594 | 599 | 599 |
| 60% Exceedance                              | 635 | 712 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 584 | 589 |
| 70% Exceedance                              | 619 | 698 | 688 | 636 | 541 | 400 | 354 | 345 | 488 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 662 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (28%)                       | 548 | 650 | 611 | 485 | 375 | 319 | 249 | 213 | 347 | 498 | 522 | 520 |
| Above Normal Years (14%)                    | 615 | 715 | 722 | 661 | 559 | 514 | 423 | 387 | 479 | 568 | 580 | 586 |
| Below Normal Years (18%)                    | 649 | 748 | 696 | 653 | 587 | 644 | 482 | 440 | 529 | 589 | 596 | 603 |
| Dry Water Years (24%)                       | 667 | 738 | 690 | 686 | 689 | 767 | 579 | 505 | 585 | 621 | 616 | 616 |
| Critical Water Years (16%)                  | 676 | 739 | 740 | 720 | 716 | 797 | 598 | 545 | 585 | 619 | 606 | 624 |

**Table F.2.5-6-1c. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 1   | -4  | -1  | 2   | -7  | -2  | -1  | 0   | -4  | -3  | 1   | -2  |
| 20% Exceedance                              | 3   | 1   | -1  | 0   | -1  | -3  | -1  | 1   | -1  | -2  | -5  | 0   |
| 30% Exceedance                              | -1  | 0   | 0   | 0   | -4  | -3  | 2   | 0   | 1   | -2  | -2  | 0   |
| 40% Exceedance                              | -1  | 2   | 2   | 1   | -4  | -3  | 4   | 8   | 4   | 2   | -2  | -2  |
| 50% Exceedance                              | 2   | 0   | 0   | 0   | -4  | 6   | 0   | 8   | 0   | -2  | -1  | -3  |
| 60% Exceedance                              | 0   | 1   | 1   | 1   | -2  | -21 | 0   | 10  | 1   | 4   | -1  | 0   |
| 70% Exceedance                              | 3   | 0   | 2   | 0   | -3  | -3  | 4   | 9   | 8   | -3  | -3  | -1  |
| 80% Exceedance                              | -2  | 0   | -1  | -18 | -3  | 0   | -1  | 0   | 11  | 0   | -5  | 0   |
| 90% Exceedance                              | -3  | 0   | -3  | 1   | 0   | -3  | -5  | 0   | 0   | 0   | -19 | -10 |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -1  | 1   | -4  | -1  | 2   | 4   | 2   | -1  | -3  | -2  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -1  | -6  | 2   | 2   | 2   | 4   | 3   | 0   | 0   |
| Above Normal Years (14%)                    | 1   | 2   | 1   | 9   | 1   | 1   | 1   | 4   | 4   | 3   | 1   | 0   |
| Below Normal Years (18%)                    | 1   | 1   | 0   | -1  | -5  | -2  | 5   | 9   | 7   | 4   | 0   | -1  |
| Dry Water Years (24%)                       | 0   | 0   | -2  | 1   | -4  | -3  | 3   | 3   | 2   | 2   | 1   | 1   |
| Critical Water Years (16%)                  | -3  | -4  | -3  | 1   | -4  | -3  | -1  | 0   | -12 | -20 | -22 | -10 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-6-2a. San Joaquin River at Vernalis Salinity (40-30-30), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (28%)                       | 548 | 650 | 612 | 486 | 381 | 318 | 246 | 211 | 343 | 495 | 522 | 521 |
| Above Normal Years (14%)                    | 615 | 714 | 721 | 652 | 558 | 513 | 422 | 383 | 475 | 565 | 579 | 586 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 655 | 591 | 646 | 477 | 431 | 522 | 585 | 596 | 605 |
| Dry Water Years (24%)                       | 667 | 738 | 692 | 685 | 693 | 770 | 576 | 502 | 583 | 619 | 615 | 615 |
| Critical Water Years (16%)                  | 680 | 743 | 742 | 719 | 719 | 799 | 599 | 545 | 597 | 639 | 628 | 634 |

**Table F.2.5-6-2b. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 690 | 761 | 784 | 772 | 732 | 821 | 608 | 553 | 607 | 641 | 631 | 632 |
| 20% Exceedance                              | 678 | 747 | 743 | 716 | 714 | 804 | 601 | 537 | 595 | 636 | 622 | 628 |
| 30% Exceedance                              | 671 | 737 | 730 | 706 | 699 | 784 | 589 | 521 | 588 | 613 | 614 | 622 |
| 40% Exceedance                              | 660 | 733 | 718 | 701 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 614 |
| 50% Exceedance                              | 649 | 724 | 712 | 687 | 678 | 742 | 515 | 460 | 547 | 594 | 599 | 598 |
| 60% Exceedance                              | 637 | 714 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 585 | 589 |
| 70% Exceedance                              | 619 | 698 | 687 | 636 | 542 | 400 | 354 | 345 | 487 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 663 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (28%)                       | 548 | 650 | 610 | 485 | 375 | 319 | 249 | 213 | 347 | 498 | 522 | 520 |
| Above Normal Years (14%)                    | 616 | 715 | 722 | 661 | 559 | 514 | 423 | 387 | 479 | 567 | 580 | 586 |
| Below Normal Years (18%)                    | 649 | 748 | 697 | 653 | 587 | 644 | 482 | 440 | 529 | 589 | 596 | 603 |
| Dry Water Years (24%)                       | 668 | 739 | 690 | 686 | 689 | 768 | 579 | 505 | 585 | 621 | 616 | 616 |
| Critical Water Years (16%)                  | 674 | 738 | 739 | 720 | 716 | 797 | 598 | 545 | 585 | 619 | 606 | 624 |

**Table F.2.5-6-2c. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -2  | -7  | -3  | 2   | -7  | 0   | -1  | 0   | -3  | -3  | 1   | -2  |
| 20% Exceedance                              | 2   | 0   | -1  | -1  | -1  | -3  | -1  | 1   | -1  | -2  | -5  | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | -3  | -1  | 2   | 0   | 1   | -2  | -2  | 0   |
| 40% Exceedance                              | -3  | 1   | -1  | 2   | -3  | -2  | 4   | 8   | 4   | 2   | -2  | -2  |
| 50% Exceedance                              | 1   | 1   | 1   | 0   | -4  | 5   | 0   | 8   | 0   | -2  | -1  | -4  |
| 60% Exceedance                              | 2   | 4   | 1   | 1   | -3  | -21 | 0   | 11  | 1   | 4   | -1  | 0   |
| 70% Exceedance                              | 3   | 0   | 1   | 0   | -1  | -2  | 4   | 9   | 8   | -3  | -2  | 0   |
| 80% Exceedance                              | -2  | 0   | -1  | -18 | -3  | 0   | -1  | 0   | 11  | 0   | -5  | 0   |
| 90% Exceedance                              | -3  | -1  | -3  | 1   | 0   | -3  | -5  | 0   | 0   | 0   | -19 | -10 |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -1  | 1   | -4  | -1  | 2   | 4   | 2   | -1  | -3  | -2  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -1  | -6  | 1   | 2   | 2   | 4   | 3   | 0   | 0   |
| Above Normal Years (14%)                    | 1   | 1   | 1   | 9   | 1   | 1   | 1   | 4   | 4   | 2   | 1   | 0   |
| Below Normal Years (18%)                    | 1   | 1   | 0   | -2  | -5  | -1  | 6   | 9   | 7   | 4   | 0   | -2  |
| Dry Water Years (24%)                       | 1   | 1   | -2  | 1   | -4  | -2  | 3   | 3   | 2   | 2   | 1   | 1   |
| Critical Water Years (16%)                  | -5  | -5  | -3  | 1   | -3  | -2  | -1  | 0   | -12 | -20 | -22 | -10 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-6-3a. San Joaquin River at Vernalis Salinity (40-30-30), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (28%)                       | 548 | 650 | 612 | 486 | 381 | 318 | 246 | 211 | 343 | 495 | 522 | 521 |
| Above Normal Years (14%)                    | 615 | 714 | 721 | 652 | 558 | 513 | 422 | 383 | 475 | 565 | 579 | 586 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 655 | 591 | 646 | 477 | 431 | 522 | 585 | 596 | 605 |
| Dry Water Years (24%)                       | 667 | 738 | 692 | 685 | 693 | 770 | 576 | 502 | 583 | 619 | 615 | 615 |
| Critical Water Years (16%)                  | 680 | 743 | 742 | 719 | 719 | 799 | 599 | 545 | 597 | 639 | 628 | 634 |

**Table F.2.5-6-3b. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 694 | 766 | 783 | 772 | 732 | 821 | 608 | 552 | 607 | 642 | 632 | 632 |
| 20% Exceedance                              | 680 | 747 | 743 | 716 | 714 | 805 | 601 | 538 | 595 | 635 | 622 | 626 |
| 30% Exceedance                              | 671 | 737 | 730 | 707 | 699 | 784 | 589 | 520 | 588 | 613 | 613 | 621 |
| 40% Exceedance                              | 661 | 733 | 719 | 701 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 612 |
| 50% Exceedance                              | 650 | 724 | 712 | 687 | 678 | 738 | 515 | 460 | 547 | 594 | 599 | 599 |
| 60% Exceedance                              | 637 | 715 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 585 | 589 |
| 70% Exceedance                              | 619 | 698 | 688 | 636 | 542 | 400 | 354 | 345 | 487 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 662 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (28%)                       | 548 | 650 | 610 | 485 | 375 | 319 | 248 | 213 | 347 | 498 | 522 | 520 |
| Above Normal Years (14%)                    | 616 | 715 | 722 | 661 | 559 | 514 | 423 | 387 | 479 | 567 | 580 | 586 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 653 | 587 | 644 | 482 | 440 | 529 | 589 | 596 | 603 |
| Dry Water Years (24%)                       | 669 | 740 | 692 | 686 | 689 | 768 | 579 | 505 | 585 | 621 | 616 | 616 |
| Critical Water Years (16%)                  | 675 | 738 | 740 | 720 | 716 | 797 | 598 | 545 | 585 | 619 | 606 | 624 |

**Table F.2.5-6-3c. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 2   | -2  | -4  | 2   | -7  | 0   | -1  | -1  | -3  | -2  | 2   | -2  |
| 20% Exceedance                              | 4   | 1   | -1  | 0   | -1  | -2  | -1  | 1   | -1  | -2  | -5  | -2  |
| 30% Exceedance                              | 0   | -1  | 1   | 1   | -3  | -1  | 3   | 0   | 0   | -2  | -2  | 0   |
| 40% Exceedance                              | -3  | 1   | 0   | 2   | -3  | -2  | 4   | 8   | 4   | 2   | -2  | -3  |
| 50% Exceedance                              | 2   | 1   | 1   | 0   | -4  | 2   | 0   | 8   | 0   | -2  | -1  | -2  |
| 60% Exceedance                              | 2   | 4   | 1   | 1   | -3  | -21 | 0   | 11  | 1   | 4   | -1  | 0   |
| 70% Exceedance                              | 3   | 0   | 2   | 0   | -1  | -2  | 4   | 9   | 7   | -3  | -2  | 0   |
| 80% Exceedance                              | -2  | 0   | -1  | -18 | -3  | 0   | -1  | 0   | 11  | 0   | -5  | 0   |
| 90% Exceedance                              | -3  | -1  | -3  | 1   | 0   | -3  | -5  | 0   | 0   | 0   | -19 | -10 |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -1  | 1   | -4  | -1  | 2   | 4   | 2   | -1  | -3  | -2  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -1  | -6  | 1   | 2   | 2   | 4   | 3   | 0   | 0   |
| Above Normal Years (14%)                    | 2   | 2   | 1   | 9   | 1   | 1   | 1   | 4   | 4   | 2   | 1   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | -1  | -2  | -4  | -1  | 6   | 9   | 7   | 4   | 0   | -2  |
| Dry Water Years (24%)                       | 2   | 2   | 0   | 1   | -4  | -2  | 3   | 3   | 2   | 2   | 1   | 1   |
| Critical Water Years (16%)                  | -4  | -5  | -3  | 1   | -3  | -2  | -1  | 0   | -12 | -20 | -22 | -10 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-6-4a. San Joaquin River at Vernalis Salinity (40-30-30), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (28%)                       | 548 | 650 | 612 | 486 | 381 | 318 | 246 | 211 | 343 | 495 | 522 | 521 |
| Above Normal Years (14%)                    | 615 | 714 | 721 | 652 | 558 | 513 | 422 | 383 | 475 | 565 | 579 | 586 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 655 | 591 | 646 | 477 | 431 | 522 | 585 | 596 | 605 |
| Dry Water Years (24%)                       | 667 | 738 | 692 | 685 | 693 | 770 | 576 | 502 | 583 | 619 | 615 | 615 |
| Critical Water Years (16%)                  | 680 | 743 | 742 | 719 | 719 | 799 | 599 | 545 | 597 | 639 | 628 | 634 |

**Table F.2.5-6-4b. San Joaquin River at Vernalis Salinity (40-30-30), Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 691 | 762 | 785 | 771 | 732 | 820 | 607 | 552 | 606 | 644 | 632 | 632 |
| 20% Exceedance                              | 677 | 747 | 742 | 718 | 714 | 804 | 601 | 537 | 595 | 638 | 624 | 628 |
| 30% Exceedance                              | 670 | 740 | 729 | 706 | 699 | 783 | 589 | 521 | 588 | 614 | 614 | 621 |
| 40% Exceedance                              | 663 | 735 | 720 | 699 | 689 | 760 | 576 | 510 | 580 | 606 | 608 | 611 |
| 50% Exceedance                              | 649 | 724 | 712 | 688 | 678 | 733 | 515 | 459 | 548 | 597 | 599 | 600 |
| 60% Exceedance                              | 636 | 713 | 698 | 674 | 619 | 551 | 412 | 401 | 506 | 579 | 585 | 590 |
| 70% Exceedance                              | 619 | 698 | 688 | 632 | 540 | 400 | 354 | 345 | 487 | 561 | 571 | 582 |
| 80% Exceedance                              | 565 | 680 | 663 | 510 | 309 | 326 | 286 | 243 | 399 | 536 | 556 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 625 | 568 | 588 | 450 | 401 | 494 | 574 | 581 | 584 |
| Wet Water Years (28%)                       | 548 | 650 | 610 | 485 | 374 | 316 | 248 | 213 | 347 | 498 | 522 | 520 |
| Above Normal Years (14%)                    | 615 | 715 | 722 | 658 | 557 | 513 | 423 | 387 | 479 | 567 | 580 | 585 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 653 | 587 | 643 | 482 | 440 | 528 | 588 | 595 | 603 |
| Dry Water Years (24%)                       | 668 | 739 | 690 | 686 | 689 | 767 | 579 | 505 | 585 | 621 | 616 | 615 |
| Critical Water Years (16%)                  | 675 | 741 | 740 | 720 | 716 | 797 | 598 | 545 | 589 | 627 | 614 | 626 |

**Table F.2.5-6-4c. San Joaquin River at Vernalis Salinity (40-30-30), Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | -6  | -2  | 0   | -8  | -2  | -1  | 0   | -4  | 0   | 2   | -2  |
| 20% Exceedance                              | 0   | 0   | -2  | 1   | -1  | -3  | -1  | 0   | -1  | 0   | -3  | -1  |
| 30% Exceedance                              | -1  | 2   | 0   | 0   | -4  | -3  | 2   | 0   | 1   | -1  | -1  | 0   |
| 40% Exceedance                              | -1  | 3   | 2   | 1   | -4  | -3  | 4   | 8   | 6   | 3   | -1  | -4  |
| 50% Exceedance                              | 1   | 0   | 1   | 1   | -4  | -4  | 0   | 7   | 1   | 1   | -1  | -1  |
| 60% Exceedance                              | 1   | 2   | 1   | 1   | -2  | -21 | 0   | 10  | 1   | 6   | 0   | 1   |
| 70% Exceedance                              | 2   | 0   | 1   | -4  | -3  | -3  | 4   | 9   | 7   | -2  | 0   | 0   |
| 80% Exceedance                              | -2  | 0   | -1  | -18 | -3  | 0   | -1  | 0   | 11  | 2   | -4  | 0   |
| 90% Exceedance                              | -3  | 0   | -3  | 1   | 0   | -3  | -5  | 0   | 0   | 0   | -19 | -10 |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -1  | 1   | -4  | -2  | 2   | 3   | 2   | 0   | -2  | -2  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | 0   | -6  | -1  | 1   | 2   | 4   | 3   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 1   | 1   | 6   | -1  | 0   | 0   | 4   | 4   | 2   | 1   | -1  |
| Below Normal Years (18%)                    | 0   | 0   | -1  | -2  | -5  | -2  | 5   | 8   | 6   | 3   | -1  | -2  |
| Dry Water Years (24%)                       | 1   | 1   | -1  | 1   | -4  | -3  | 3   | 3   | 2   | 2   | 1   | 0   |
| Critical Water Years (16%)                  | -4  | -3  | -2  | 2   | -3  | -3  | -1  | 0   | -8  | -12 | -14 | -8  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-6-5a. San Joaquin River at Vernalis Salinity (40-30-30), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (28%)                       | 548 | 650 | 612 | 486 | 381 | 318 | 246 | 211 | 343 | 495 | 522 | 521 |
| Above Normal Years (14%)                    | 615 | 714 | 721 | 652 | 558 | 513 | 422 | 383 | 475 | 565 | 579 | 586 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 655 | 591 | 646 | 477 | 431 | 522 | 585 | 596 | 605 |
| Dry Water Years (24%)                       | 667 | 738 | 692 | 685 | 693 | 770 | 576 | 502 | 583 | 619 | 615 | 615 |
| Critical Water Years (16%)                  | 680 | 743 | 742 | 719 | 719 | 799 | 599 | 545 | 597 | 639 | 628 | 634 |

**Table F.2.5-6-5b. San Joaquin River at Vernalis Salinity (40-30-30), EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 694 | 774 | 781 | 763 | 740 | 814 | 603 | 547 | 577 | 590 | 631 | 643 |
| 20% Exceedance                              | 686 | 755 | 747 | 711 | 710 | 794 | 590 | 537 | 562 | 587 | 618 | 636 |
| 30% Exceedance                              | 676 | 745 | 732 | 701 | 690 | 766 | 577 | 526 | 553 | 584 | 601 | 630 |
| 40% Exceedance                              | 672 | 736 | 725 | 687 | 677 | 740 | 562 | 506 | 545 | 581 | 597 | 627 |
| 50% Exceedance                              | 665 | 728 | 718 | 677 | 650 | 699 | 513 | 459 | 539 | 579 | 594 | 622 |
| 60% Exceedance                              | 651 | 712 | 704 | 645 | 602 | 575 | 384 | 400 | 519 | 572 | 590 | 615 |
| 70% Exceedance                              | 623 | 700 | 665 | 621 | 466 | 390 | 342 | 347 | 498 | 562 | 586 | 593 |
| 80% Exceedance                              | 546 | 661 | 636 | 478 | 292 | 324 | 275 | 275 | 423 | 533 | 579 | 534 |
| 90% Exceedance                              | 492 | 626 | 520 | 250 | 174 | 210 | 179 | 114 | 293 | 486 | 463 | 444 |
| Full Simulation Period Average <sup>a</sup> | 628 | 706 | 673 | 609 | 552 | 579 | 440 | 404 | 485 | 556 | 576 | 587 |
| Wet Water Years (28%)                       | 544 | 639 | 597 | 467 | 364 | 321 | 244 | 222 | 365 | 505 | 518 | 505 |
| Above Normal Years (14%)                    | 622 | 706 | 715 | 626 | 527 | 505 | 411 | 394 | 480 | 564 | 607 | 604 |
| Below Normal Years (18%)                    | 650 | 742 | 688 | 633 | 563 | 628 | 467 | 439 | 512 | 566 | 592 | 608 |
| Dry Water Years (24%)                       | 679 | 731 | 676 | 677 | 672 | 751 | 565 | 508 | 561 | 580 | 597 | 627 |
| Critical Water Years (16%)                  | 682 | 747 | 750 | 712 | 712 | 784 | 590 | 534 | 557 | 590 | 602 | 633 |

**Table F.2.5-6-5c. San Joaquin River at Vernalis Salinity (40-30-30), EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 2   | 6   | -5  | -7  | 0   | -8  | -6  | -6  | -34 | -54 | 1   | 9   |
| 20% Exceedance                              | 10  | 9   | 3   | -6  | -4  | -13 | -11 | 1   | -34 | -51 | -8  | 8   |
| 30% Exceedance                              | 5   | 7   | 3   | -5  | -12 | -20 | -10 | 5   | -34 | -31 | -14 | 9   |
| 40% Exceedance                              | 8   | 4   | 6   | -12 | -15 | -23 | -10 | 4   | -29 | -22 | -11 | 12  |
| 50% Exceedance                              | 17  | 5   | 7   | -10 | -31 | -38 | -1  | 7   | -8  | -17 | -6  | 21  |
| 60% Exceedance                              | 17  | 1   | 6   | -28 | -19 | 3   | -28 | 9   | 14  | -1  | 5   | 26  |
| 70% Exceedance                              | 7   | 2   | -22 | -15 | -77 | -13 | -8  | 12  | 18  | -1  | 15  | 11  |
| 80% Exceedance                              | -21 | -20 | -27 | -50 | -20 | -1  | -12 | 32  | 36  | -2  | 19  | -33 |
| 90% Exceedance                              | -15 | -20 | -59 | -24 | 1   | -5  | -4  | 2   | 21  | 9   | -62 | -36 |
| Full Simulation Period Average <sup>a</sup> | 4   | -6  | -9  | -16 | -20 | -10 | -8  | 6   | -6  | -18 | -7  | 2   |
| Wet Water Years (28%)                       | -4  | -11 | -15 | -19 | -16 | 3   | -3  | 11  | 22  | 10  | -5  | -16 |
| Above Normal Years (14%)                    | 7   | -7  | -6  | -26 | -31 | -9  | -11 | 11  | 5   | -1  | 28  | 18  |
| Below Normal Years (18%)                    | 2   | -4  | -9  | -21 | -29 | -18 | -10 | 8   | -9  | -19 | -4  | 4   |
| Dry Water Years (24%)                       | 12  | -8  | -16 | -8  | -21 | -19 | -11 | 6   | -22 | -39 | -18 | 12  |
| Critical Water Years (16%)                  | 2   | 4   | 8   | -6  | -7  | -15 | -9  | -11 | -39 | -49 | -26 | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-6-6a. San Joaquin River at Vernalis Salinity (40-30-30), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (28%)                       | 620 | 686 | 623 | 403 | 312 | 273 | 211 | 199 | 342 | 488 | 555 | 598 |
| Above Normal Years (14%)                    | 660 | 729 | 718 | 590 | 485 | 421 | 356 | 352 | 460 | 552 | 587 | 619 |
| Below Normal Years (18%)                    | 685 | 758 | 667 | 619 | 544 | 558 | 423 | 417 | 503 | 560 | 586 | 628 |
| Dry Water Years (24%)                       | 708 | 741 | 654 | 665 | 639 | 688 | 525 | 486 | 542 | 580 | 597 | 632 |
| Critical Water Years (16%)                  | 719 | 771 | 766 | 717 | 694 | 764 | 594 | 549 | 554 | 590 | 600 | 638 |

**Table F.2.5-6-6b. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 693 | 764 | 786 | 772 | 732 | 820 | 607 | 552 | 607 | 641 | 631 | 632 |
| 20% Exceedance                              | 679 | 748 | 743 | 716 | 714 | 804 | 601 | 537 | 595 | 636 | 622 | 628 |
| 30% Exceedance                              | 671 | 738 | 730 | 706 | 699 | 783 | 589 | 521 | 588 | 613 | 613 | 622 |
| 40% Exceedance                              | 663 | 733 | 721 | 700 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 614 |
| 50% Exceedance                              | 650 | 724 | 711 | 687 | 678 | 742 | 515 | 460 | 547 | 594 | 599 | 599 |
| 60% Exceedance                              | 635 | 712 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 584 | 589 |
| 70% Exceedance                              | 619 | 698 | 688 | 636 | 541 | 400 | 354 | 345 | 488 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 662 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (28%)                       | 548 | 650 | 611 | 485 | 375 | 319 | 249 | 213 | 347 | 498 | 522 | 520 |
| Above Normal Years (14%)                    | 615 | 715 | 722 | 661 | 559 | 514 | 423 | 387 | 479 | 568 | 580 | 586 |
| Below Normal Years (18%)                    | 649 | 748 | 696 | 653 | 587 | 644 | 482 | 440 | 529 | 589 | 596 | 603 |
| Dry Water Years (24%)                       | 667 | 738 | 690 | 686 | 689 | 767 | 579 | 505 | 585 | 621 | 616 | 616 |
| Critical Water Years (16%)                  | 676 | 739 | 740 | 720 | 716 | 797 | 598 | 545 | 585 | 619 | 606 | 624 |

**Table F.2.5-6-6c. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -36 | -23 | 10  | 36  | 30  | 39  | -1  | -10 | 41  | 51  | 29  | -11  |
| 20% Exceedance                              | -39 | -17 | -8  | 10  | 32  | 70  | 23  | -4  | 35  | 48  | 22  | -9   |
| 30% Exceedance                              | -38 | -18 | -14 | 17  | 54  | 80  | 39  | -7  | 36  | 28  | 16  | -11  |
| 40% Exceedance                              | -39 | -15 | -10 | 30  | 66  | 95  | 58  | 27  | 34  | 23  | 11  | -16  |
| 50% Exceedance                              | -47 | -20 | -12 | 50  | 83  | 158 | 87  | 43  | 30  | 18  | 5   | -30  |
| 60% Exceedance                              | -53 | -23 | 0   | 64  | 96  | 99  | 55  | 36  | 0   | 15  | -4  | -35  |
| 70% Exceedance                              | -45 | -24 | 10  | 78  | 86  | 52  | 48  | 45  | -2  | 11  | -13 | -30  |
| 80% Exceedance                              | -58 | -24 | 34  | 38  | 47  | 42  | 53  | 16  | 17  | 25  | -16 | -37  |
| 90% Exceedance                              | -64 | -41 | 54  | 8   | 21  | 28  | 56  | 13  | 17  | 2   | -43 | -117 |
| Full Simulation Period Average <sup>a</sup> | -49 | -19 | 7   | 45  | 51  | 66  | 44  | 17  | 24  | 24  | -3  | -37  |
| Wet Water Years (28%)                       | -72 | -35 | -12 | 83  | 63  | 46  | 37  | 14  | 5   | 9   | -33 | -78  |
| Above Normal Years (14%)                    | -45 | -14 | 4   | 71  | 74  | 94  | 67  | 35  | 19  | 16  | -7  | -33  |
| Below Normal Years (18%)                    | -36 | -10 | 29  | 35  | 42  | 86  | 59  | 23  | 26  | 29  | 10  | -25  |
| Dry Water Years (24%)                       | -40 | -3  | 36  | 21  | 50  | 79  | 53  | 19  | 43  | 41  | 19  | -17  |
| Critical Water Years (16%)                  | -42 | -31 | -26 | 2   | 22  | 33  | 4   | -3  | 31  | 29  | 6   | -13  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-6-7a. San Joaquin River at Vernalis Salinity (40-30-30), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (28%)                       | 620 | 686 | 623 | 403 | 312 | 273 | 211 | 199 | 342 | 488 | 555 | 598 |
| Above Normal Years (14%)                    | 660 | 729 | 718 | 590 | 485 | 421 | 356 | 352 | 460 | 552 | 587 | 619 |
| Below Normal Years (18%)                    | 685 | 758 | 667 | 619 | 544 | 558 | 423 | 417 | 503 | 560 | 586 | 628 |
| Dry Water Years (24%)                       | 708 | 741 | 654 | 665 | 639 | 688 | 525 | 486 | 542 | 580 | 597 | 632 |
| Critical Water Years (16%)                  | 719 | 771 | 766 | 717 | 694 | 764 | 594 | 549 | 554 | 590 | 600 | 638 |

**Table F.2.5-6-7b. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 690 | 761 | 784 | 772 | 732 | 821 | 608 | 553 | 607 | 641 | 631 | 632 |
| 20% Exceedance                              | 678 | 747 | 743 | 716 | 714 | 804 | 601 | 537 | 595 | 636 | 622 | 628 |
| 30% Exceedance                              | 671 | 737 | 730 | 706 | 699 | 784 | 589 | 521 | 588 | 613 | 614 | 622 |
| 40% Exceedance                              | 660 | 733 | 718 | 701 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 614 |
| 50% Exceedance                              | 649 | 724 | 712 | 687 | 678 | 742 | 515 | 460 | 547 | 594 | 599 | 598 |
| 60% Exceedance                              | 637 | 714 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 585 | 589 |
| 70% Exceedance                              | 619 | 698 | 687 | 636 | 542 | 400 | 354 | 345 | 487 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 663 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (28%)                       | 548 | 650 | 610 | 485 | 375 | 319 | 249 | 213 | 347 | 498 | 522 | 520 |
| Above Normal Years (14%)                    | 616 | 715 | 722 | 661 | 559 | 514 | 423 | 387 | 479 | 567 | 580 | 586 |
| Below Normal Years (18%)                    | 649 | 748 | 697 | 653 | 587 | 644 | 482 | 440 | 529 | 589 | 596 | 603 |
| Dry Water Years (24%)                       | 668 | 739 | 690 | 686 | 689 | 768 | 579 | 505 | 585 | 621 | 616 | 616 |
| Critical Water Years (16%)                  | 674 | 738 | 739 | 720 | 716 | 797 | 598 | 545 | 585 | 619 | 606 | 624 |

**Table F.2.5-6-7c. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -39 | -26 | 8   | 36  | 30  | 41  | 0   | -10 | 42  | 51  | 29  | -11  |
| 20% Exceedance                              | -40 | -18 | -8  | 10  | 32  | 70  | 23  | -4  | 35  | 48  | 22  | -9   |
| 30% Exceedance                              | -38 | -18 | -13 | 17  | 55  | 81  | 40  | -7  | 35  | 27  | 17  | -11  |
| 40% Exceedance                              | -42 | -16 | -13 | 32  | 66  | 95  | 58  | 27  | 34  | 23  | 11  | -16  |
| 50% Exceedance                              | -47 | -19 | -11 | 50  | 83  | 158 | 87  | 43  | 30  | 17  | 5   | -31  |
| 60% Exceedance                              | -51 | -20 | 0   | 64  | 95  | 99  | 55  | 37  | 0   | 15  | -4  | -35  |
| 70% Exceedance                              | -45 | -24 | 9   | 78  | 88  | 52  | 48  | 45  | -2  | 11  | -12 | -29  |
| 80% Exceedance                              | -58 | -24 | 34  | 38  | 47  | 42  | 53  | 16  | 17  | 25  | -16 | -37  |
| 90% Exceedance                              | -64 | -41 | 54  | 8   | 21  | 28  | 56  | 13  | 17  | 2   | -42 | -117 |
| Full Simulation Period Average <sup>a</sup> | -49 | -19 | 7   | 45  | 51  | 66  | 44  | 17  | 24  | 24  | -3  | -37  |
| Wet Water Years (28%)                       | -72 | -36 | -12 | 83  | 63  | 46  | 37  | 15  | 5   | 9   | -33 | -78  |
| Above Normal Years (14%)                    | -44 | -14 | 4   | 71  | 74  | 94  | 67  | 35  | 19  | 16  | -7  | -33  |
| Below Normal Years (18%)                    | -36 | -10 | 30  | 34  | 43  | 87  | 59  | 23  | 26  | 29  | 10  | -25  |
| Dry Water Years (24%)                       | -39 | -3  | 37  | 21  | 50  | 80  | 54  | 19  | 43  | 41  | 19  | -17  |
| Critical Water Years (16%)                  | -44 | -33 | -27 | 2   | 22  | 34  | 4   | -3  | 31  | 29  | 6   | -14  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-6-8a. San Joaquin River at Vernalis Salinity (40-30-30), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (28%)                       | 620 | 686 | 623 | 403 | 312 | 273 | 211 | 199 | 342 | 488 | 555 | 598 |
| Above Normal Years (14%)                    | 660 | 729 | 718 | 590 | 485 | 421 | 356 | 352 | 460 | 552 | 587 | 619 |
| Below Normal Years (18%)                    | 685 | 758 | 667 | 619 | 544 | 558 | 423 | 417 | 503 | 560 | 586 | 628 |
| Dry Water Years (24%)                       | 708 | 741 | 654 | 665 | 639 | 688 | 525 | 486 | 542 | 580 | 597 | 632 |
| Critical Water Years (16%)                  | 719 | 771 | 766 | 717 | 694 | 764 | 594 | 549 | 554 | 590 | 600 | 638 |

**Table F.2.5-6-8b. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 694 | 766 | 783 | 772 | 732 | 821 | 608 | 552 | 607 | 642 | 632 | 632 |
| 20% Exceedance                              | 680 | 747 | 743 | 716 | 714 | 805 | 601 | 538 | 595 | 635 | 622 | 626 |
| 30% Exceedance                              | 671 | 737 | 730 | 707 | 699 | 784 | 589 | 520 | 588 | 613 | 613 | 621 |
| 40% Exceedance                              | 661 | 733 | 719 | 701 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 612 |
| 50% Exceedance                              | 650 | 724 | 712 | 687 | 678 | 738 | 515 | 460 | 547 | 594 | 599 | 599 |
| 60% Exceedance                              | 637 | 715 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 585 | 589 |
| 70% Exceedance                              | 619 | 698 | 688 | 636 | 542 | 400 | 354 | 345 | 487 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 662 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (28%)                       | 548 | 650 | 610 | 485 | 375 | 319 | 248 | 213 | 347 | 498 | 522 | 520 |
| Above Normal Years (14%)                    | 616 | 715 | 722 | 661 | 559 | 514 | 423 | 387 | 479 | 567 | 580 | 586 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 653 | 587 | 644 | 482 | 440 | 529 | 589 | 596 | 603 |
| Dry Water Years (24%)                       | 669 | 740 | 692 | 686 | 689 | 768 | 579 | 505 | 585 | 621 | 616 | 616 |
| Critical Water Years (16%)                  | 675 | 738 | 740 | 720 | 716 | 797 | 598 | 545 | 585 | 619 | 606 | 624 |

**Table F.2.5-6-8c. San Joaquin River at Vernalis Salinity (40-30-30), Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -35 | -21 | 7   | 36  | 30  | 41  | 0   | -10 | 41  | 52  | 30  | -11  |
| 20% Exceedance                              | -38 | -18 | -8  | 10  | 32  | 71  | 23  | -4  | 35  | 48  | 22  | -10  |
| 30% Exceedance                              | -38 | -19 | -13 | 18  | 55  | 81  | 40  | -7  | 35  | 27  | 16  | -11  |
| 40% Exceedance                              | -41 | -16 | -12 | 32  | 66  | 95  | 58  | 27  | 34  | 22  | 11  | -18  |
| 50% Exceedance                              | -47 | -19 | -11 | 50  | 83  | 154 | 87  | 43  | 30  | 18  | 5   | -29  |
| 60% Exceedance                              | -51 | -19 | -1  | 64  | 95  | 99  | 55  | 37  | 0   | 15  | -4  | -35  |
| 70% Exceedance                              | -45 | -24 | 10  | 78  | 88  | 52  | 48  | 45  | -2  | 11  | -13 | -29  |
| 80% Exceedance                              | -58 | -24 | 34  | 38  | 47  | 42  | 53  | 16  | 17  | 25  | -16 | -37  |
| 90% Exceedance                              | -64 | -41 | 54  | 8   | 21  | 28  | 56  | 13  | 17  | 2   | -42 | -117 |
| Full Simulation Period Average <sup>a</sup> | -49 | -19 | 8   | 45  | 51  | 66  | 44  | 17  | 24  | 24  | -3  | -37  |
| Wet Water Years (28%)                       | -72 | -35 | -12 | 82  | 63  | 45  | 37  | 14  | 5   | 9   | -33 | -78  |
| Above Normal Years (14%)                    | -44 | -14 | 4   | 71  | 74  | 94  | 67  | 35  | 19  | 16  | -7  | -33  |
| Below Normal Years (18%)                    | -37 | -11 | 29  | 34  | 43  | 87  | 59  | 23  | 26  | 29  | 9   | -25  |
| Dry Water Years (24%)                       | -39 | -1  | 38  | 21  | 50  | 80  | 53  | 19  | 42  | 41  | 19  | -17  |
| Critical Water Years (16%)                  | -43 | -32 | -26 | 2   | 22  | 34  | 4   | -3  | 31  | 29  | 6   | -14  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-6-9a. San Joaquin River at Vernalis Salinity (40-30-30), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (28%)                       | 620 | 686 | 623 | 403 | 312 | 273 | 211 | 199 | 342 | 488 | 555 | 598 |
| Above Normal Years (14%)                    | 660 | 729 | 718 | 590 | 485 | 421 | 356 | 352 | 460 | 552 | 587 | 619 |
| Below Normal Years (18%)                    | 685 | 758 | 667 | 619 | 544 | 558 | 423 | 417 | 503 | 560 | 586 | 628 |
| Dry Water Years (24%)                       | 708 | 741 | 654 | 665 | 639 | 688 | 525 | 486 | 542 | 580 | 597 | 632 |
| Critical Water Years (16%)                  | 719 | 771 | 766 | 717 | 694 | 764 | 594 | 549 | 554 | 590 | 600 | 638 |

**Table F.2.5-6-9b. San Joaquin River at Vernalis Salinity (40-30-30), Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 691 | 762 | 785 | 771 | 732 | 820 | 607 | 552 | 606 | 644 | 632 | 632 |
| 20% Exceedance                              | 677 | 747 | 742 | 718 | 714 | 804 | 601 | 537 | 595 | 638 | 624 | 628 |
| 30% Exceedance                              | 670 | 740 | 729 | 706 | 699 | 783 | 589 | 521 | 588 | 614 | 614 | 621 |
| 40% Exceedance                              | 663 | 735 | 720 | 699 | 689 | 760 | 576 | 510 | 580 | 606 | 608 | 611 |
| 50% Exceedance                              | 649 | 724 | 712 | 688 | 678 | 733 | 515 | 459 | 548 | 597 | 599 | 600 |
| 60% Exceedance                              | 636 | 713 | 698 | 674 | 619 | 551 | 412 | 401 | 506 | 579 | 585 | 590 |
| 70% Exceedance                              | 619 | 698 | 688 | 632 | 540 | 400 | 354 | 345 | 487 | 561 | 571 | 582 |
| 80% Exceedance                              | 565 | 680 | 663 | 510 | 309 | 326 | 286 | 243 | 399 | 536 | 556 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 625 | 568 | 588 | 450 | 401 | 494 | 574 | 581 | 584 |
| Wet Water Years (28%)                       | 548 | 650 | 610 | 485 | 374 | 316 | 248 | 213 | 347 | 498 | 522 | 520 |
| Above Normal Years (14%)                    | 615 | 715 | 722 | 658 | 557 | 513 | 423 | 387 | 479 | 567 | 580 | 585 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 653 | 587 | 643 | 482 | 440 | 528 | 588 | 595 | 603 |
| Dry Water Years (24%)                       | 668 | 739 | 690 | 686 | 689 | 767 | 579 | 505 | 585 | 621 | 616 | 615 |
| Critical Water Years (16%)                  | 675 | 741 | 740 | 720 | 716 | 797 | 598 | 545 | 589 | 627 | 614 | 626 |

**Table F.2.5-6-9c. San Joaquin River at Vernalis Salinity (40-30-30), Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -38 | -26 | 9   | 34  | 30  | 39  | -1  | -10 | 41  | 54  | 30  | -11  |
| 20% Exceedance                              | -42 | -18 | -9  | 11  | 32  | 70  | 23  | -4  | 35  | 50  | 24  | -9   |
| 30% Exceedance                              | -39 | -16 | -14 | 17  | 54  | 80  | 39  | -7  | 36  | 29  | 17  | -11  |
| 40% Exceedance                              | -39 | -14 | -11 | 30  | 66  | 95  | 58  | 27  | 36  | 23  | 12  | -19  |
| 50% Exceedance                              | -47 | -20 | -11 | 50  | 83  | 149 | 87  | 42  | 31  | 20  | 5   | -28  |
| 60% Exceedance                              | -52 | -21 | -1  | 64  | 96  | 99  | 55  | 36  | 0   | 17  | -3  | -34  |
| 70% Exceedance                              | -45 | -24 | 9   | 74  | 86  | 52  | 47  | 45  | -3  | 13  | -10 | -29  |
| 80% Exceedance                              | -58 | -24 | 34  | 38  | 47  | 42  | 53  | 16  | 17  | 27  | -15 | -37  |
| 90% Exceedance                              | -64 | -41 | 54  | 8   | 21  | 28  | 56  | 13  | 17  | 2   | -43 | -117 |
| Full Simulation Period Average <sup>a</sup> | -50 | -19 | 7   | 44  | 51  | 65  | 44  | 17  | 24  | 25  | -2  | -37  |
| Wet Water Years (28%)                       | -72 | -36 | -12 | 83  | 63  | 43  | 36  | 14  | 5   | 9   | -33 | -78  |
| Above Normal Years (14%)                    | -45 | -14 | 4   | 68  | 72  | 92  | 67  | 35  | 19  | 16  | -7  | -34  |
| Below Normal Years (18%)                    | -37 | -11 | 29  | 34  | 43  | 86  | 59  | 23  | 26  | 28  | 9   | -25  |
| Dry Water Years (24%)                       | -39 | -2  | 37  | 21  | 50  | 79  | 53  | 19  | 43  | 40  | 19  | -17  |
| Critical Water Years (16%)                  | -43 | -30 | -25 | 3   | 22  | 33  | 4   | -3  | 35  | 37  | 15  | -12  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-6-10a. San Joaquin River at Vernalis Salinity (40-30-30), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (28%)                       | 620 | 686 | 623 | 403 | 312 | 273 | 211 | 199 | 342 | 488 | 555 | 598 |
| Above Normal Years (14%)                    | 660 | 729 | 718 | 590 | 485 | 421 | 356 | 352 | 460 | 552 | 587 | 619 |
| Below Normal Years (18%)                    | 685 | 758 | 667 | 619 | 544 | 558 | 423 | 417 | 503 | 560 | 586 | 628 |
| Dry Water Years (24%)                       | 708 | 741 | 654 | 665 | 639 | 688 | 525 | 486 | 542 | 580 | 597 | 632 |
| Critical Water Years (16%)                  | 719 | 771 | 766 | 717 | 694 | 764 | 594 | 549 | 554 | 590 | 600 | 638 |

**Table F.2.5-6-10b. San Joaquin River at Vernalis Salinity (40-30-30), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (28%)                       | 548 | 650 | 612 | 486 | 381 | 318 | 246 | 211 | 343 | 495 | 522 | 521 |
| Above Normal Years (14%)                    | 615 | 714 | 721 | 652 | 558 | 513 | 422 | 383 | 475 | 565 | 579 | 586 |
| Below Normal Years (18%)                    | 648 | 746 | 696 | 655 | 591 | 646 | 477 | 431 | 522 | 585 | 596 | 605 |
| Dry Water Years (24%)                       | 667 | 738 | 692 | 685 | 693 | 770 | 576 | 502 | 583 | 619 | 615 | 615 |
| Critical Water Years (16%)                  | 680 | 743 | 742 | 719 | 719 | 799 | 599 | 545 | 597 | 639 | 628 | 634 |

**Table F.2.5-6-10c. San Joaquin River at Vernalis Salinity (40-30-30), NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -37 | -20 | 11  | 34  | 38  | 42  | 0   | -10 | 45  | 54  | 28  | -9   |
| 20% Exceedance                              | -42 | -19 | -8  | 10  | 33  | 73  | 23  | -5  | 36  | 50  | 26  | -8   |
| 30% Exceedance                              | -38 | -18 | -14 | 17  | 58  | 82  | 37  | -7  | 35  | 30  | 18  | -11  |
| 40% Exceedance                              | -38 | -17 | -12 | 29  | 70  | 98  | 54  | 19  | 30  | 21  | 13  | -15  |
| 50% Exceedance                              | -49 | -20 | -12 | 49  | 87  | 152 | 87  | 35  | 30  | 19  | 6   | -27  |
| 60% Exceedance                              | -53 | -24 | -2  | 62  | 98  | 119 | 55  | 26  | -1  | 11  | -3  | -35  |
| 70% Exceedance                              | -48 | -24 | 8   | 78  | 89  | 55  | 44  | 36  | -10 | 15  | -10 | -29  |
| 80% Exceedance                              | -56 | -24 | 35  | 56  | 50  | 42  | 54  | 16  | 6   | 25  | -11 | -37  |
| 90% Exceedance                              | -60 | -40 | 56  | 6   | 21  | 31  | 60  | 13  | 18  | 2   | -24 | -107 |
| Full Simulation Period Average <sup>a</sup> | -49 | -19 | 8   | 43  | 55  | 67  | 42  | 14  | 22  | 25  | 0   | -35  |
| Wet Water Years (28%)                       | -72 | -36 | -11 | 83  | 69  | 44  | 35  | 12  | 1   | 6   | -33 | -77  |
| Above Normal Years (14%)                    | -45 | -15 | 3   | 62  | 73  | 93  | 66  | 31  | 15  | 13  | -8  | -33  |
| Below Normal Years (18%)                    | -37 | -11 | 30  | 36  | 47  | 88  | 54  | 15  | 19  | 25  | 10  | -23  |
| Dry Water Years (24%)                       | -41 | -3  | 38  | 20  | 54  | 82  | 51  | 16  | 40  | 39  | 18  | -18  |
| Critical Water Years (16%)                  | -39 | -27 | -24 | 1   | 26  | 36  | 5   | -3  | 43  | 49  | 28  | -4   |

<sup>a</sup> Based on the 100-year simulation period.

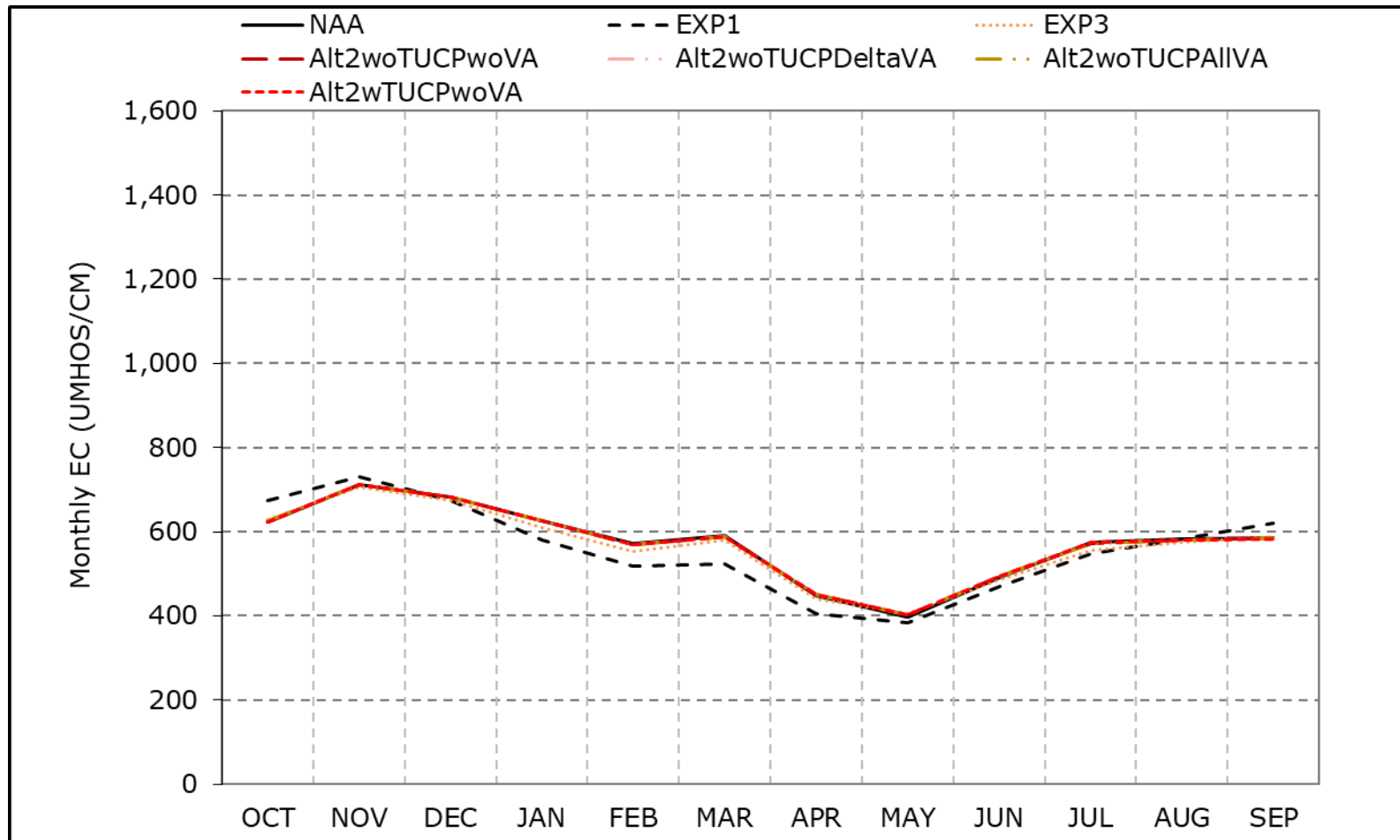
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-6-1. San Joaquin River at Vernalis Salinity (40-30-30), Long-Term Average EC**

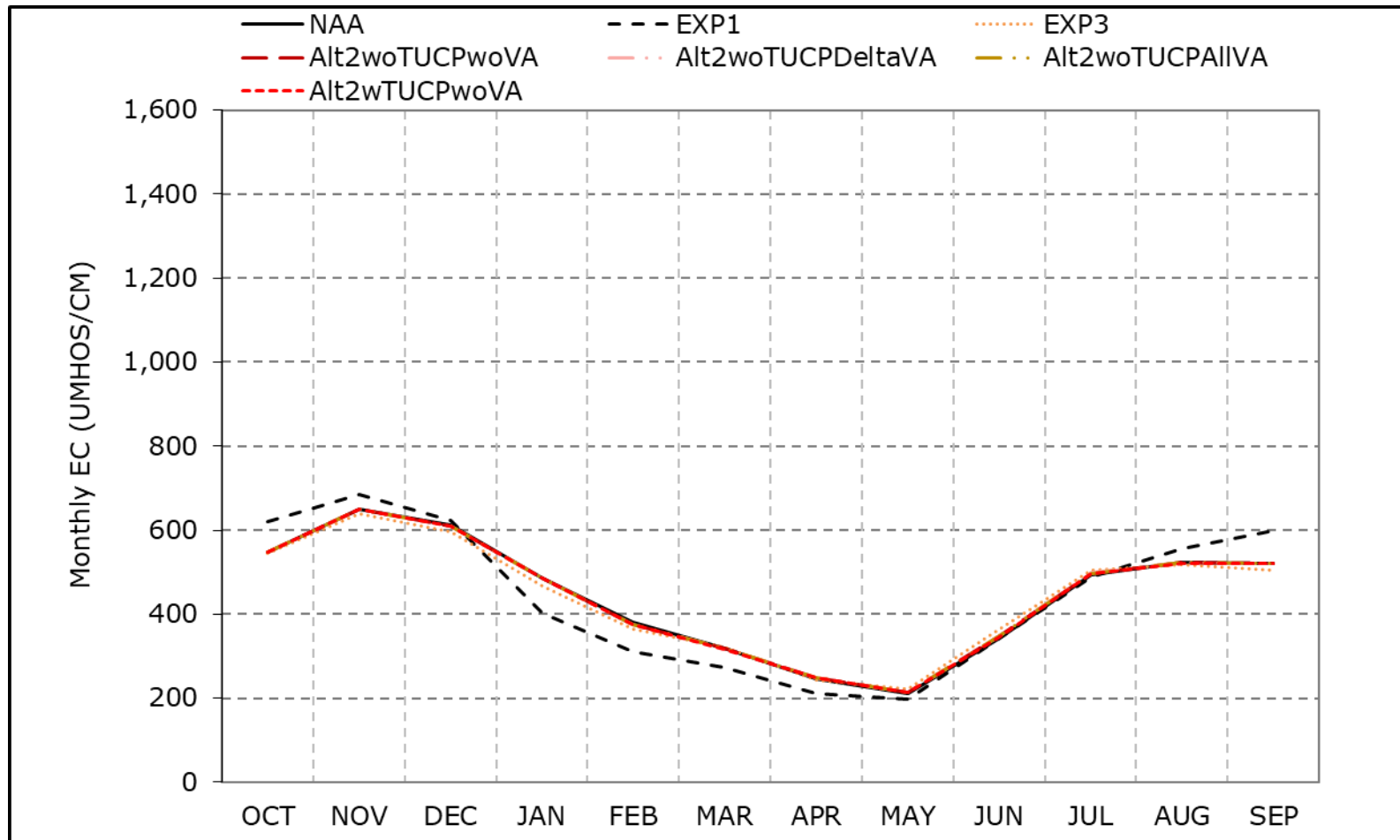


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-2. San Joaquin River at Vernalis Salinity (40-30-30), Wet Year Average EC**

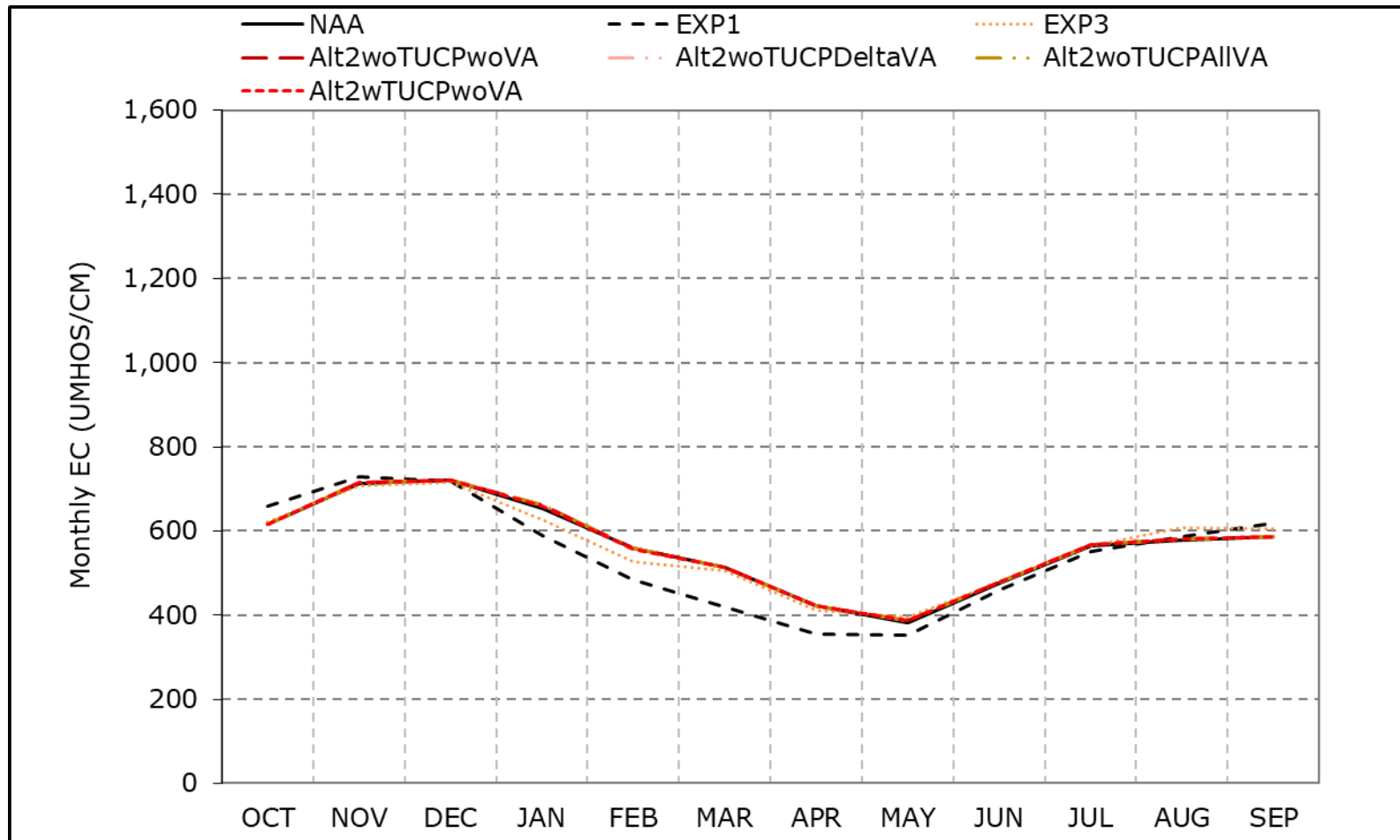


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-3. San Joaquin River at Vernalis Salinity (40-30-30), Above Normal Year Average EC**

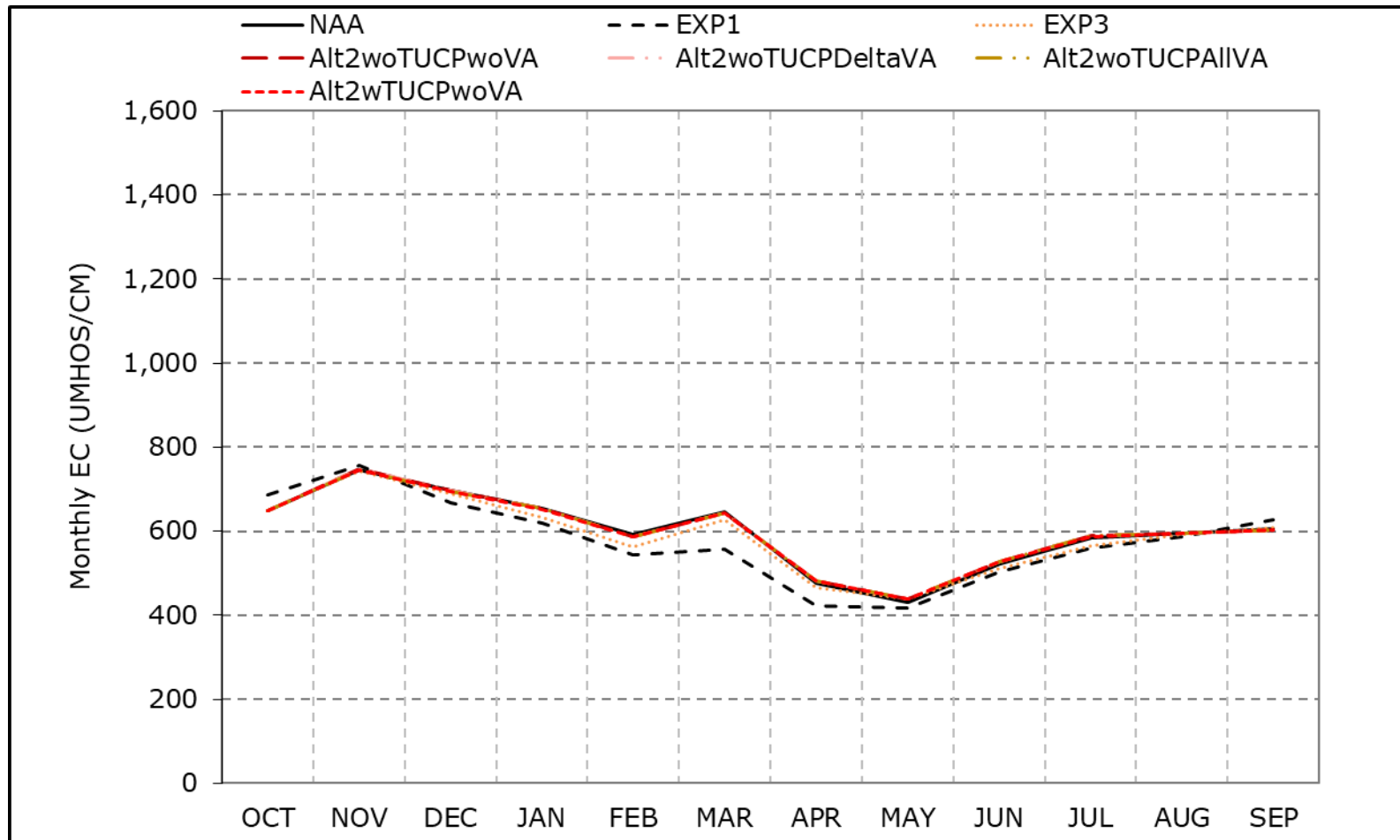


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-4. San Joaquin River at Vernalis Salinity (40-30-30), Below Normal Year Average EC**

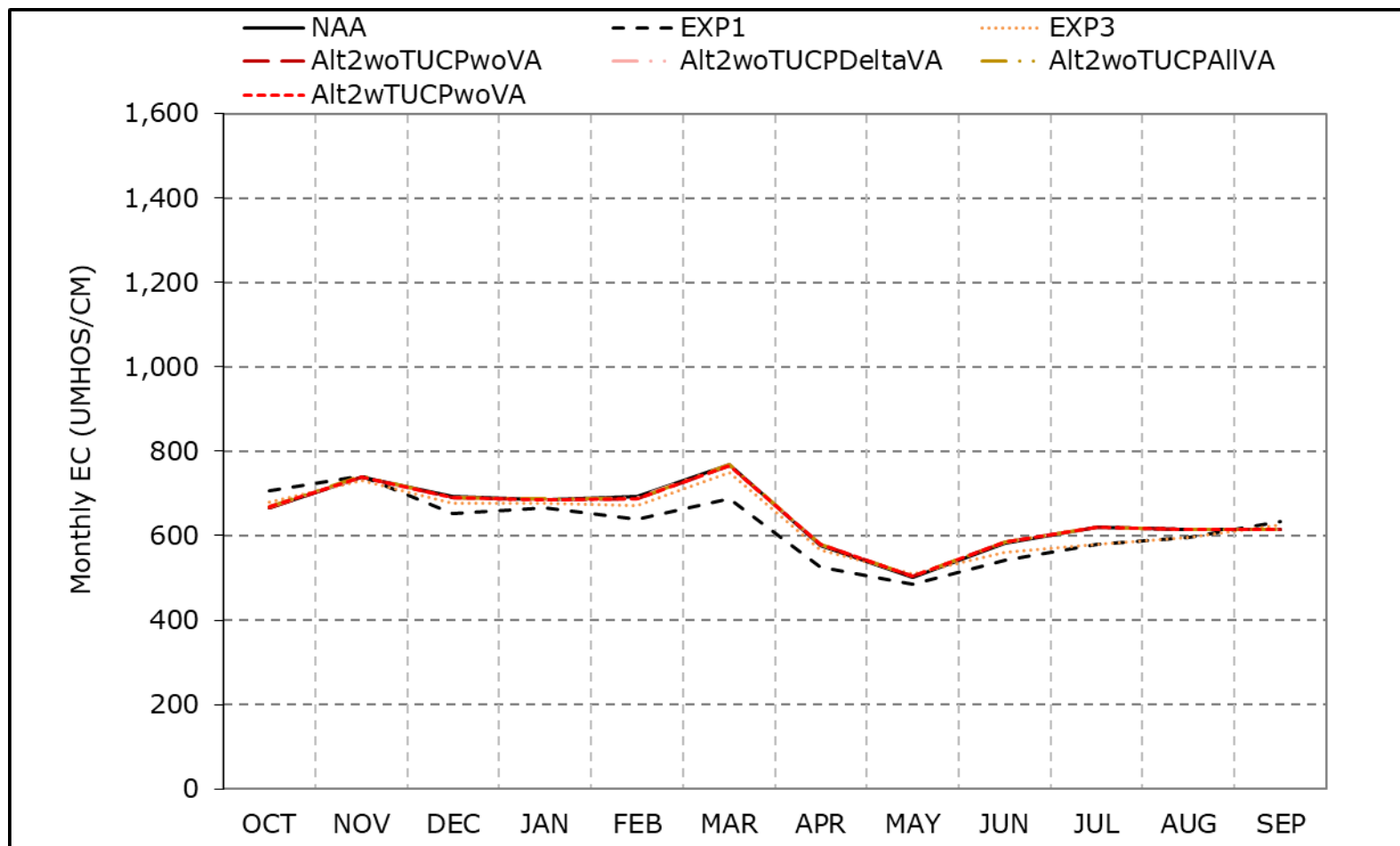


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-5. San Joaquin River at Vernalis Salinity (40-30-30), Dry Year  
Average EC**

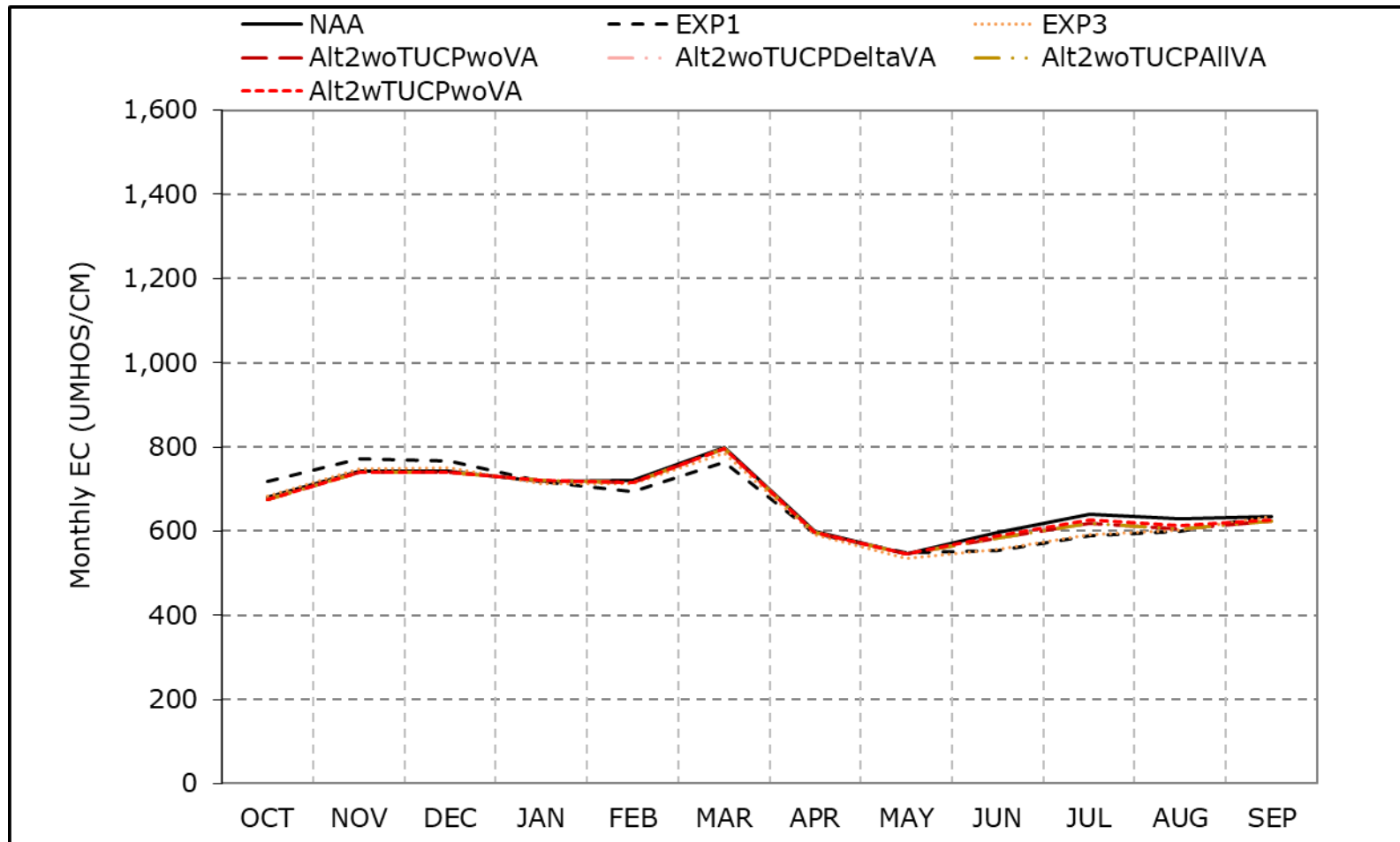


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-6. San Joaquin River at Vernalis Salinity (40-30-30), Critical Year Average EC**

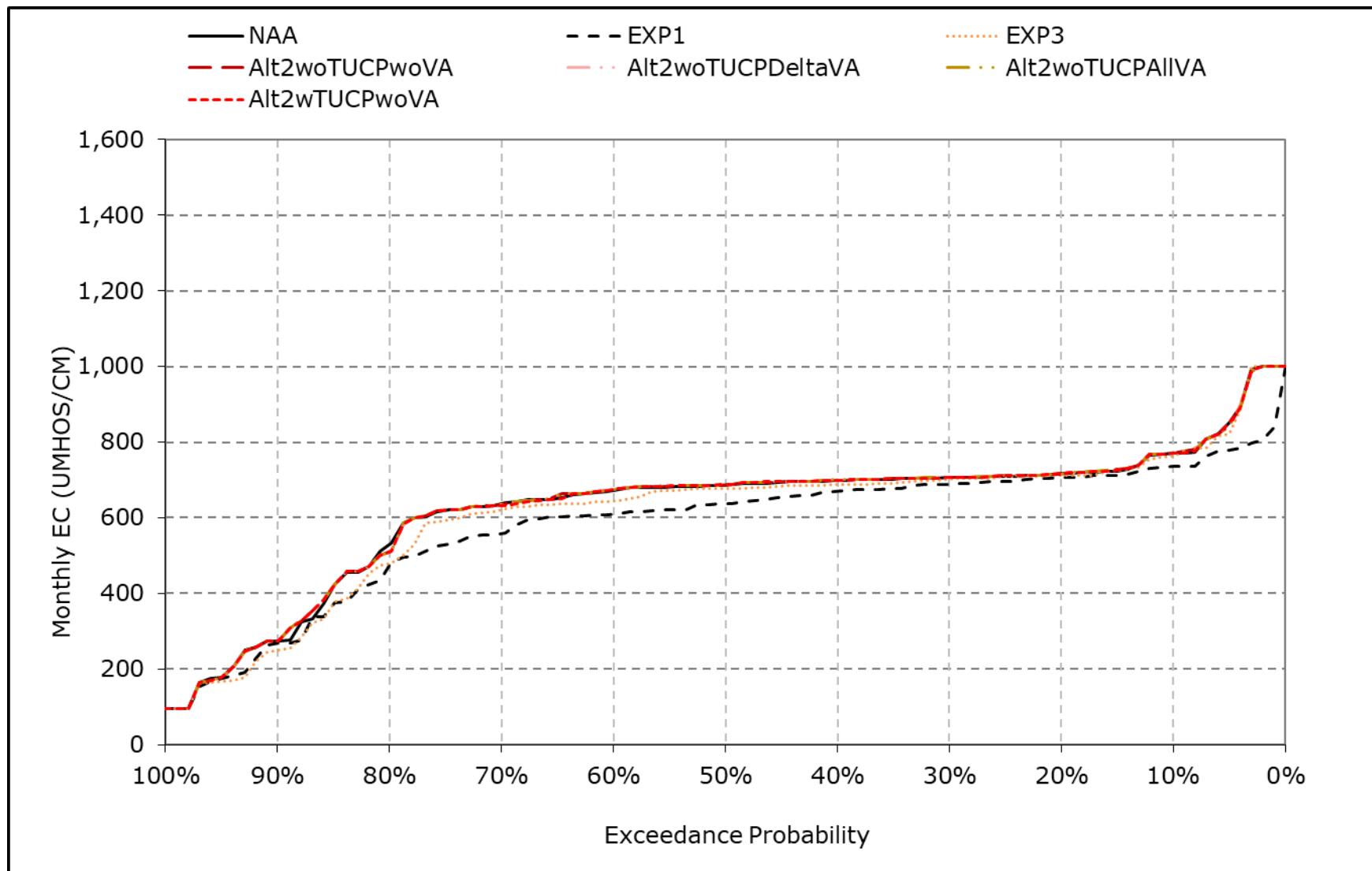


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

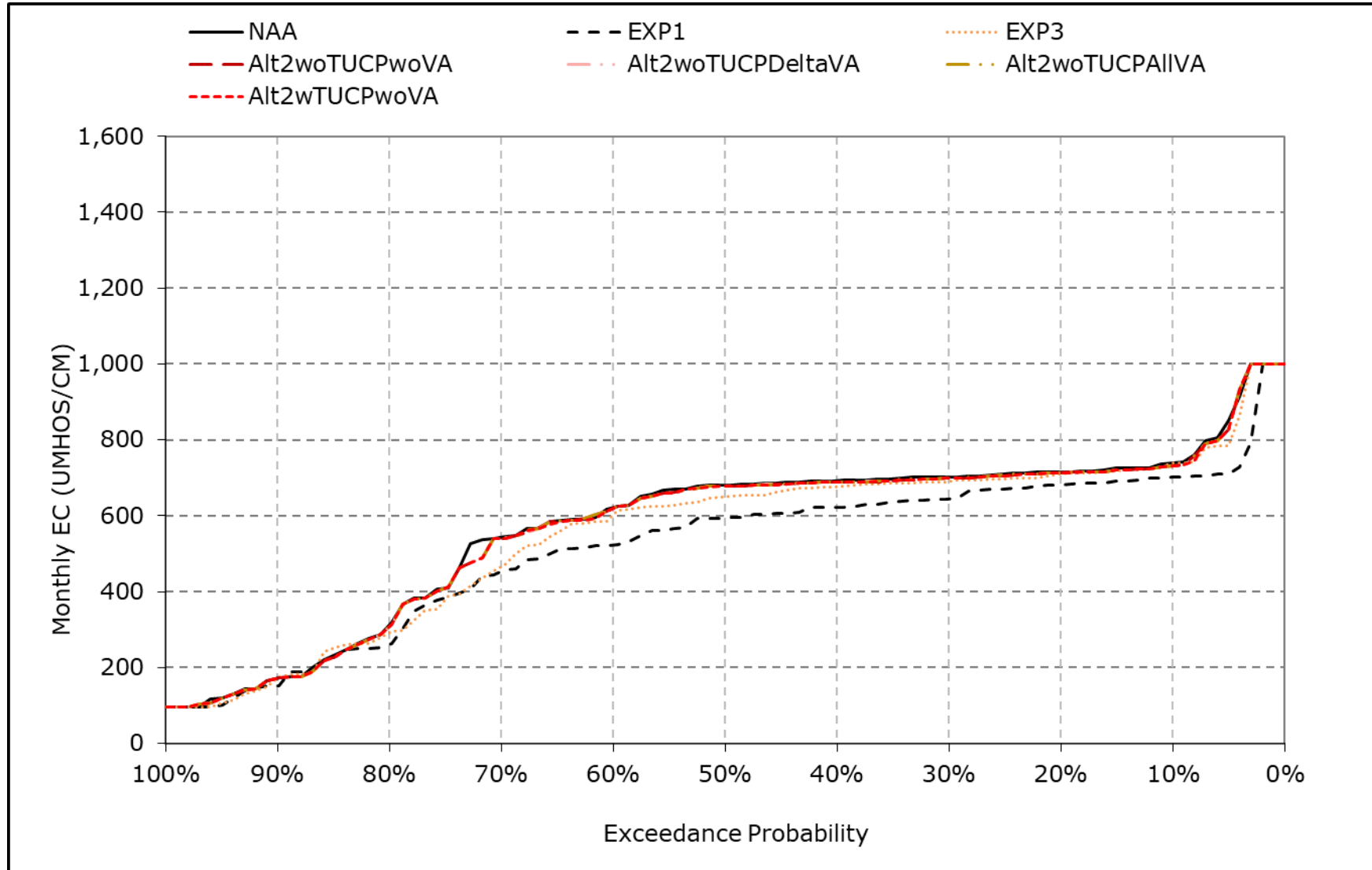
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-7. San Joaquin River at Vernalis Salinity (40-30-30), January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

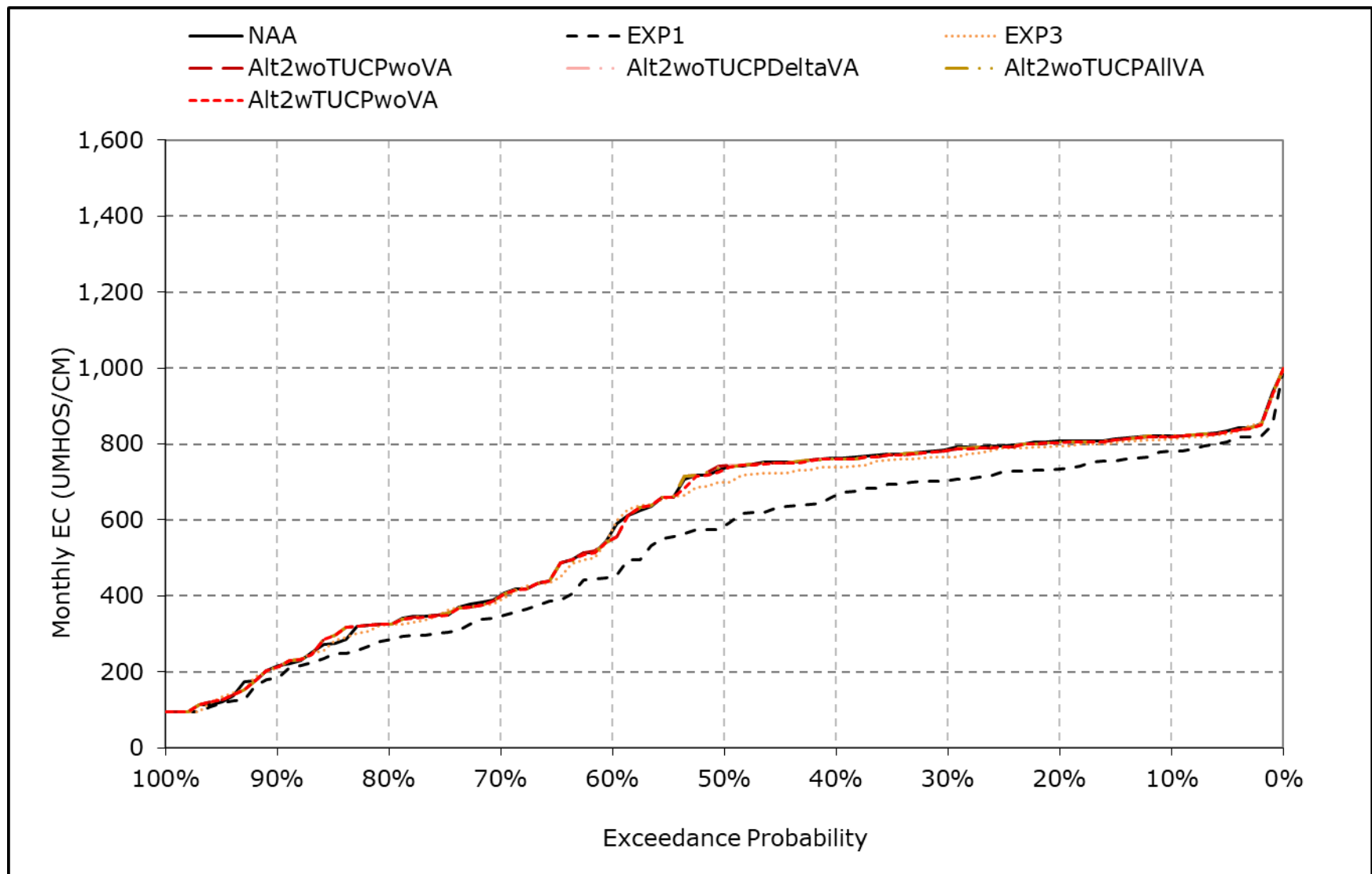
**Figure F.2.5-6-8. San Joaquin River at Vernalis Salinity (40-30-30), February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

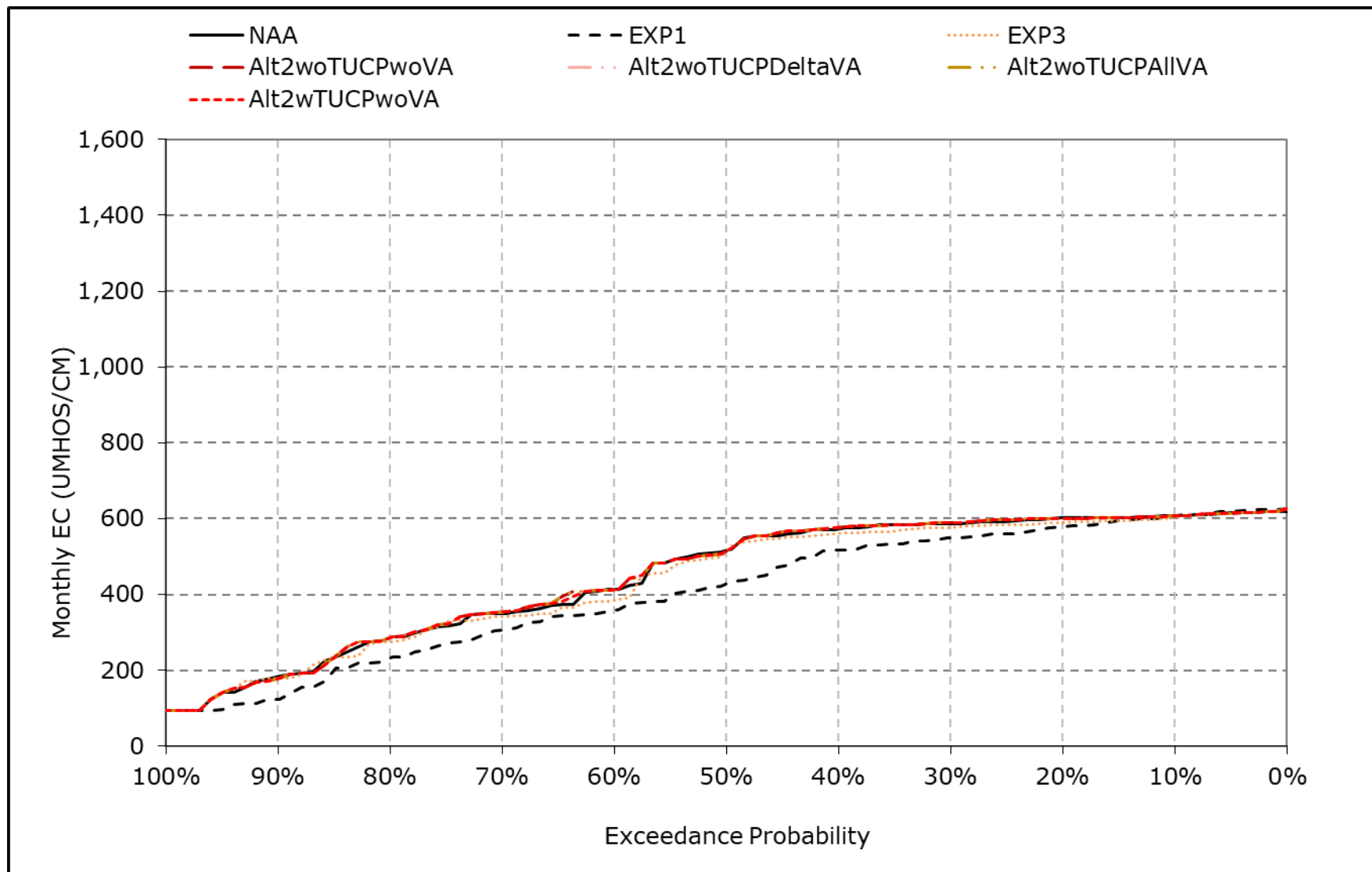


**Figure F.2.5-6-9. San Joaquin River at Vernalis Salinity (40-30-30), March EC**



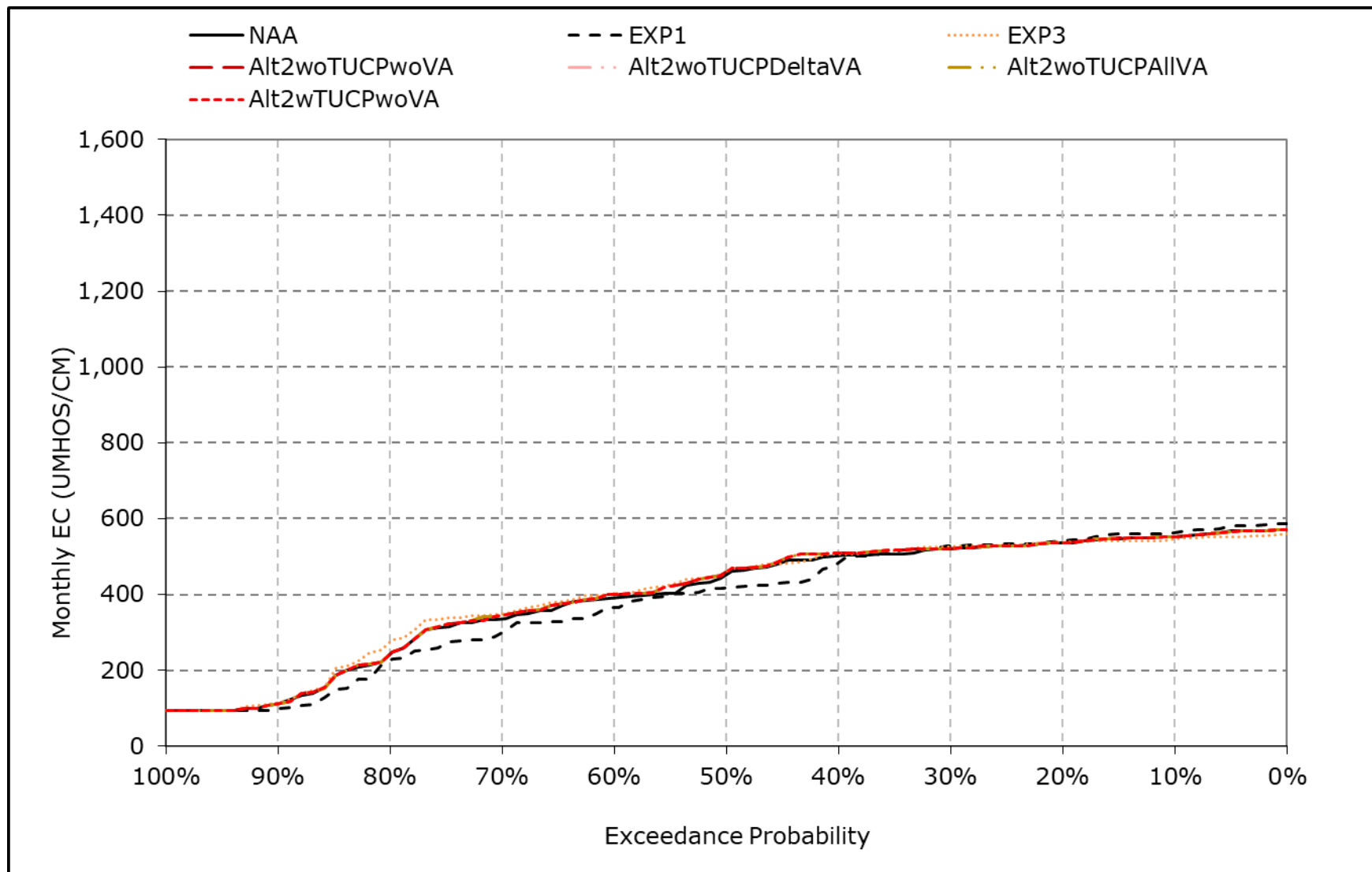
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-10. San Joaquin River at Vernalis Salinity (40-30-30), April EC**



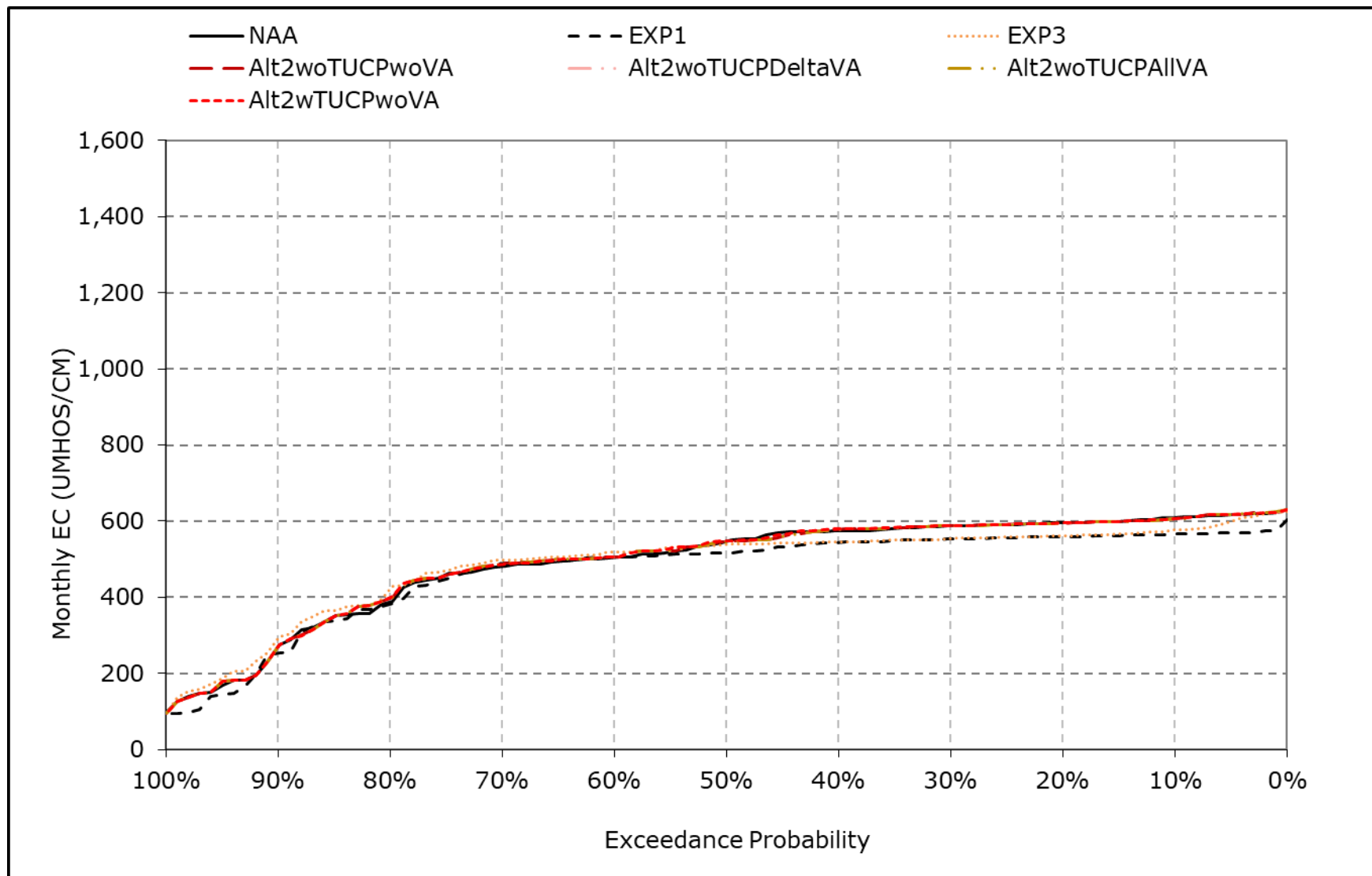
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-11. San Joaquin River at Vernalis Salinity (40-30-30), May EC**



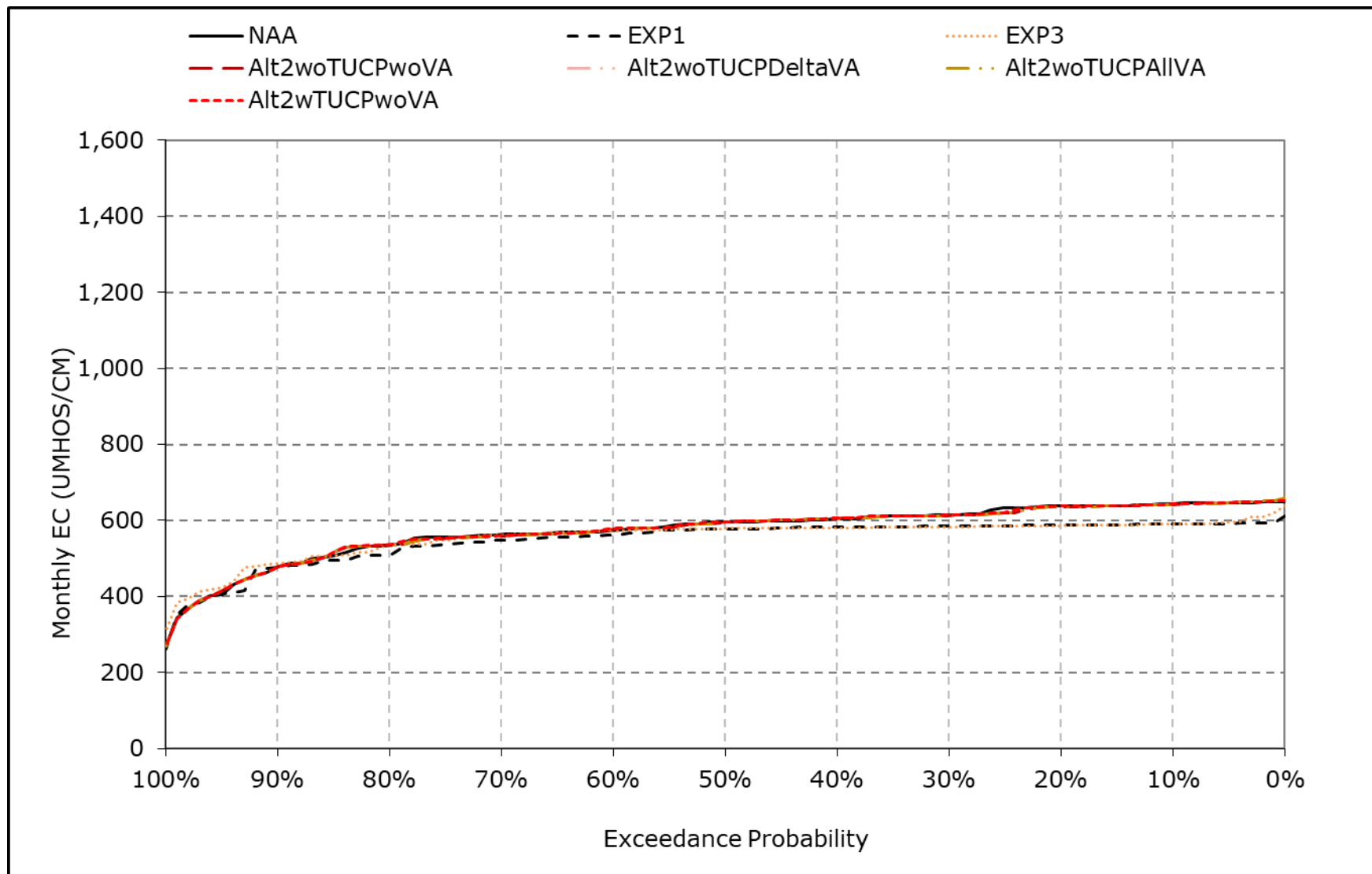
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-12. San Joaquin River at Vernalis Salinity (40-30-30), June EC**



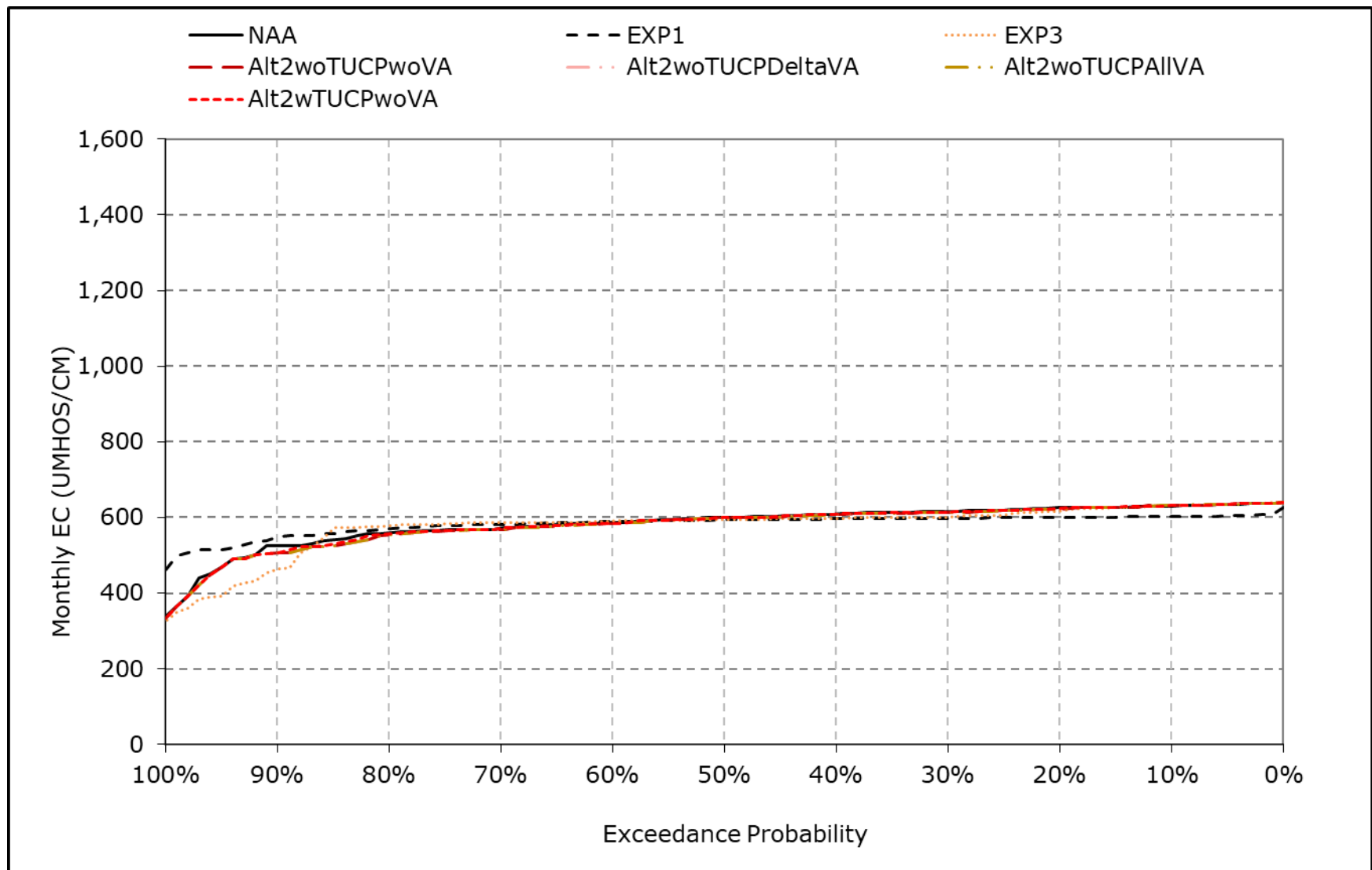
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-13. San Joaquin River at Vernalis Salinity (40-30-30), July EC**



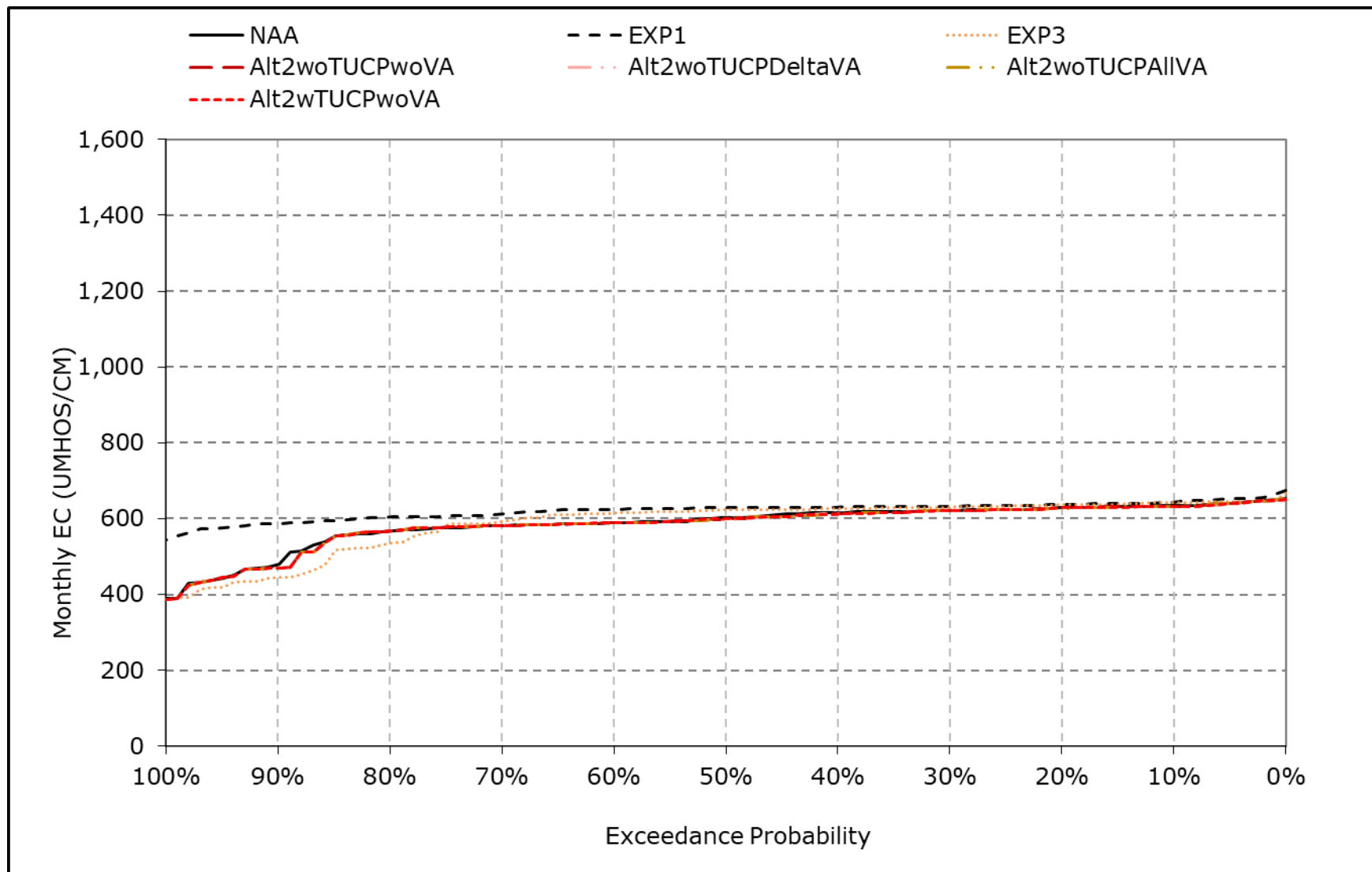
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-14. San Joaquin River at Vernalis Salinity (40-30-30), August EC**



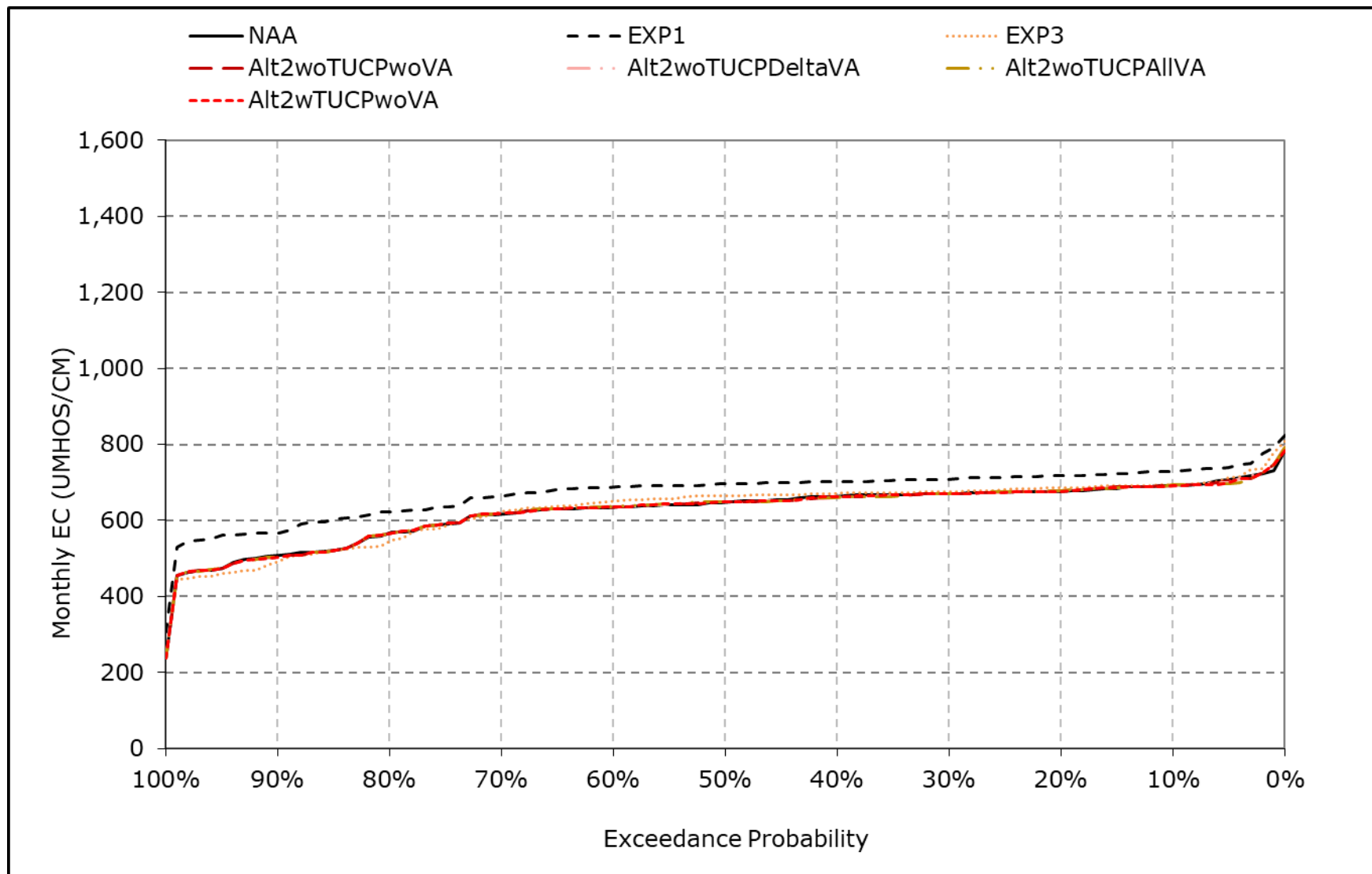
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-15. San Joaquin River at Vernalis Salinity (40-30-30), September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

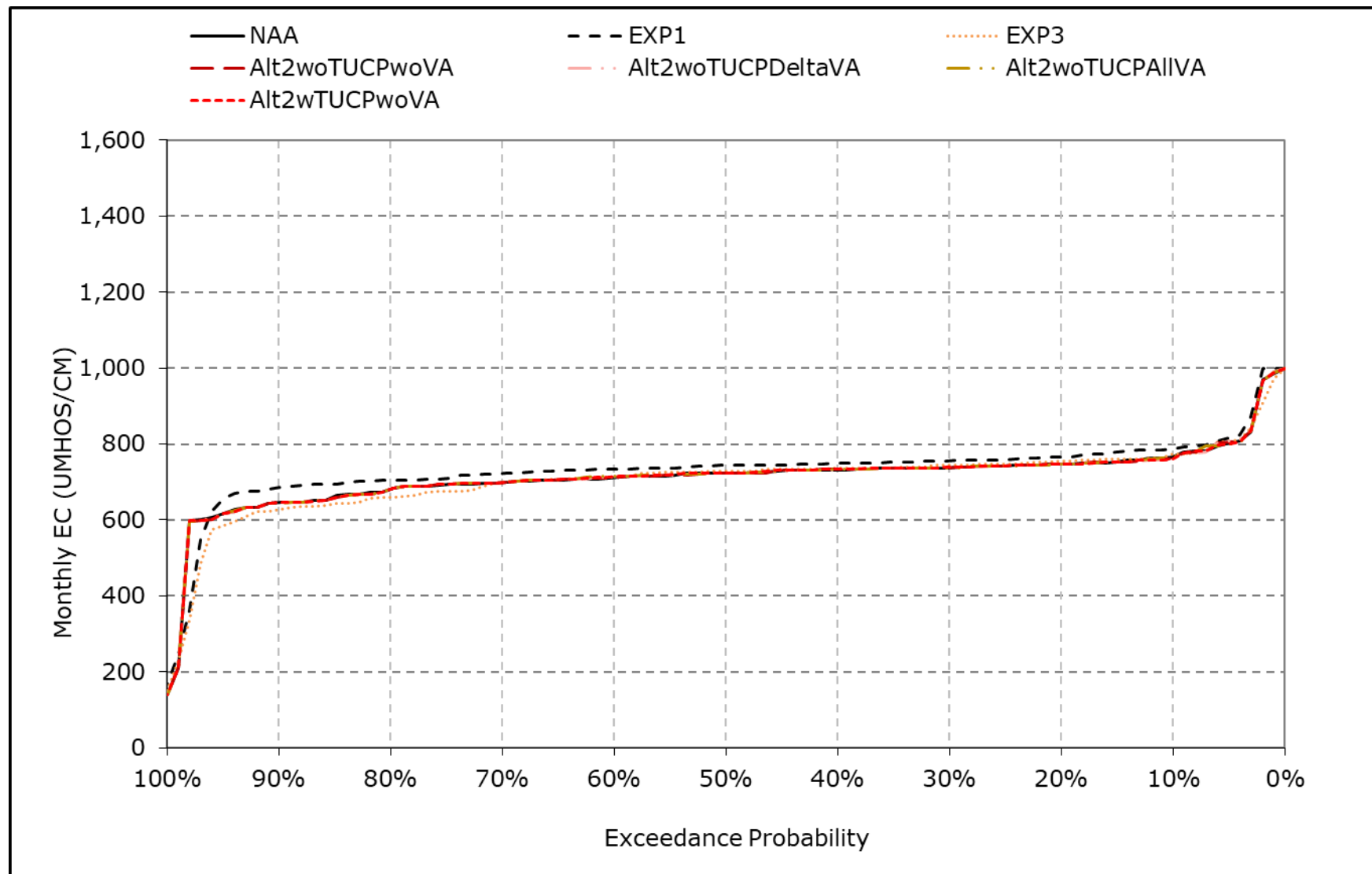
**Figure F.2.5-6-16. San Joaquin River at Vernalis Salinity (40-30-30), October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

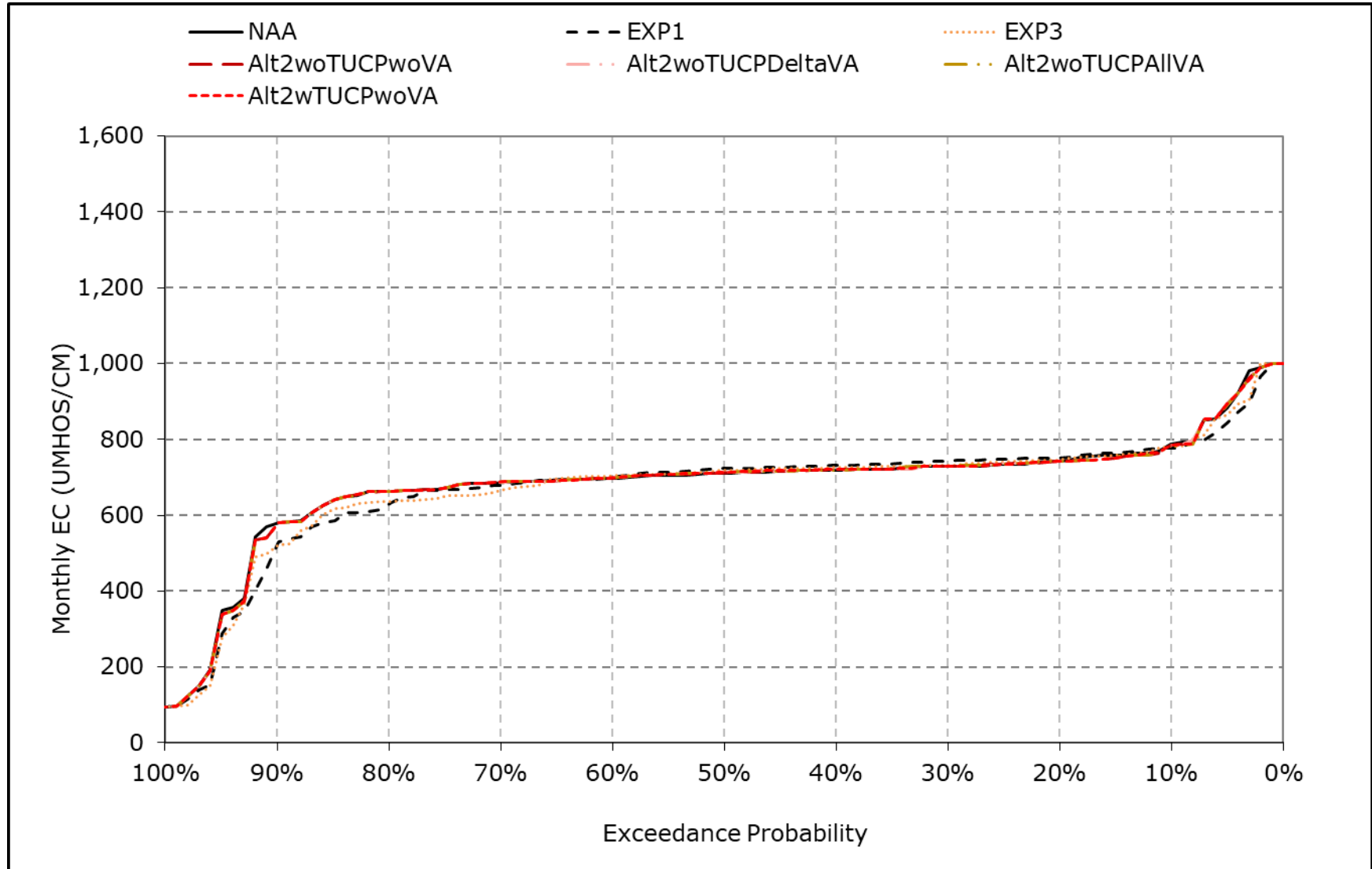


**Figure F.2.5-6-17. San Joaquin River at Vernalis Salinity (40-30-30), November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-6-18. San Joaquin River at Vernalis Salinity (40-30-30), December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-7-1a. San Joaquin River at Vernalis Salinity (60-20-20), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (22%)                       | 509 | 634 | 602 | 552 | 415 | 292 | 225 | 171 | 280 | 470 | 504 | 497 |
| Above Normal Years (12%)                    | 606 | 694 | 634 | 489 | 393 | 421 | 364 | 319 | 464 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 635 | 710 | 673 | 601 | 539 | 511 | 388 | 364 | 490 | 564 | 575 | 589 |
| Dry Water Years (17%)                       | 681 | 744 | 717 | 683 | 683 | 755 | 552 | 487 | 569 | 601 | 610 | 618 |
| Critical Water Years (34%)                  | 674 | 756 | 741 | 700 | 698 | 794 | 597 | 543 | 601 | 634 | 622 | 625 |

**Table F.2.5-7-1b. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 693 | 764 | 786 | 772 | 732 | 820 | 607 | 552 | 607 | 641 | 631 | 632 |
| 20% Exceedance                              | 679 | 748 | 743 | 716 | 714 | 804 | 601 | 537 | 595 | 636 | 622 | 628 |
| 30% Exceedance                              | 671 | 738 | 730 | 706 | 699 | 783 | 589 | 521 | 588 | 613 | 613 | 622 |
| 40% Exceedance                              | 663 | 733 | 721 | 700 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 614 |
| 50% Exceedance                              | 650 | 724 | 711 | 687 | 678 | 742 | 515 | 460 | 547 | 594 | 599 | 599 |
| 60% Exceedance                              | 635 | 712 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 584 | 589 |
| 70% Exceedance                              | 619 | 698 | 688 | 636 | 541 | 400 | 354 | 345 | 488 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 662 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (22%)                       | 508 | 633 | 600 | 557 | 409 | 294 | 224 | 174 | 286 | 474 | 503 | 495 |
| Above Normal Years (12%)                    | 606 | 694 | 633 | 488 | 389 | 420 | 366 | 321 | 465 | 566 | 585 | 587 |
| Below Normal Years (15%)                    | 636 | 710 | 672 | 600 | 539 | 514 | 399 | 372 | 494 | 566 | 576 | 590 |
| Dry Water Years (17%)                       | 684 | 747 | 719 | 684 | 677 | 750 | 556 | 496 | 576 | 606 | 611 | 619 |
| Critical Water Years (34%)                  | 673 | 755 | 739 | 701 | 694 | 791 | 596 | 543 | 596 | 626 | 613 | 621 |

**Table F.2.5-7-1c. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 1   | -4  | -1  | 2   | -7  | -2  | -1  | 0   | -4  | -3  | 1   | -2  |
| 20% Exceedance                              | 3   | 1   | -1  | 0   | -1  | -3  | -1  | 1   | -1  | -2  | -5  | 0   |
| 30% Exceedance                              | -1  | 0   | 0   | 0   | -4  | -3  | 2   | 0   | 1   | -2  | -2  | 0   |
| 40% Exceedance                              | -1  | 2   | 2   | 1   | -4  | -3  | 4   | 8   | 4   | 2   | -2  | -2  |
| 50% Exceedance                              | 2   | 0   | 0   | 0   | -4  | 6   | 0   | 8   | 0   | -2  | -1  | -3  |
| 60% Exceedance                              | 0   | 1   | 1   | 1   | -2  | -21 | 0   | 10  | 1   | 4   | -1  | 0   |
| 70% Exceedance                              | 3   | 0   | 2   | 0   | -3  | -3  | 4   | 9   | 8   | -3  | -3  | -1  |
| 80% Exceedance                              | -2  | 0   | -1  | -18 | -3  | 0   | -1  | 0   | 11  | 0   | -5  | 0   |
| 90% Exceedance                              | -3  | 0   | -3  | 1   | 0   | -3  | -5  | 0   | 0   | 0   | -19 | -10 |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -1  | 1   | -4  | -1  | 2   | 4   | 2   | -1  | -3  | -2  |
| Wet Water Years (22%)                       | -1  | 0   | -2  | 5   | -6  | 2   | -1  | 2   | 6   | 5   | -1  | -3  |
| Above Normal Years (12%)                    | 0   | 0   | 0   | -1  | -4  | -2  | 3   | 2   | 1   | 1   | 0   | 0   |
| Below Normal Years (15%)                    | 1   | 0   | -1  | -1  | 0   | 4   | 11  | 8   | 4   | 2   | 1   | 1   |
| Dry Water Years (17%)                       | 2   | 3   | 2   | 1   | -6  | -5  | 4   | 9   | 8   | 4   | 1   | 1   |
| Critical Water Years (34%)                  | -1  | -2  | -2  | 1   | -4  | -2  | -1  | 0   | -5  | -9  | -9  | -4  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Table F.2.5-7-2a. San Joaquin River at Vernalis Salinity (60-20-20), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (22%)                       | 509 | 634 | 602 | 552 | 415 | 292 | 225 | 171 | 280 | 470 | 504 | 497 |
| Above Normal Years (12%)                    | 606 | 694 | 634 | 489 | 393 | 421 | 364 | 319 | 464 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 635 | 710 | 673 | 601 | 539 | 511 | 388 | 364 | 490 | 564 | 575 | 589 |
| Dry Water Years (17%)                       | 681 | 744 | 717 | 683 | 683 | 755 | 552 | 487 | 569 | 601 | 610 | 618 |
| Critical Water Years (34%)                  | 674 | 756 | 741 | 700 | 698 | 794 | 597 | 543 | 601 | 634 | 622 | 625 |

**Table F.2.5-7-2b. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 690 | 761 | 784 | 772 | 732 | 821 | 608 | 553 | 607 | 641 | 631 | 632 |
| 20% Exceedance                              | 678 | 747 | 743 | 716 | 714 | 804 | 601 | 537 | 595 | 636 | 622 | 628 |
| 30% Exceedance                              | 671 | 737 | 730 | 706 | 699 | 784 | 589 | 521 | 588 | 613 | 614 | 622 |
| 40% Exceedance                              | 660 | 733 | 718 | 701 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 614 |
| 50% Exceedance                              | 649 | 724 | 712 | 687 | 678 | 742 | 515 | 460 | 547 | 594 | 599 | 598 |
| 60% Exceedance                              | 637 | 714 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 585 | 589 |
| 70% Exceedance                              | 619 | 698 | 687 | 636 | 542 | 400 | 354 | 345 | 487 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 663 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (22%)                       | 508 | 633 | 600 | 557 | 409 | 293 | 224 | 174 | 286 | 474 | 503 | 495 |
| Above Normal Years (12%)                    | 606 | 694 | 633 | 488 | 389 | 420 | 366 | 321 | 465 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 636 | 710 | 672 | 600 | 539 | 514 | 399 | 372 | 494 | 566 | 576 | 590 |
| Dry Water Years (17%)                       | 685 | 746 | 718 | 684 | 677 | 751 | 556 | 496 | 576 | 606 | 611 | 619 |
| Critical Water Years (34%)                  | 673 | 755 | 739 | 701 | 694 | 793 | 596 | 543 | 596 | 626 | 613 | 620 |

**Table F.2.5-7-2c. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -2  | -7  | -3  | 2   | -7  | 0   | -1  | 0   | -3  | -3  | 1   | -2  |
| 20% Exceedance                              | 2   | 0   | -1  | -1  | -1  | -3  | -1  | 1   | -1  | -2  | -5  | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | -3  | -1  | 2   | 0   | 1   | -2  | -2  | 0   |
| 40% Exceedance                              | -3  | 1   | -1  | 2   | -3  | -2  | 4   | 8   | 4   | 2   | -2  | -2  |
| 50% Exceedance                              | 1   | 1   | 1   | 0   | -4  | 5   | 0   | 8   | 0   | -2  | -1  | -4  |
| 60% Exceedance                              | 2   | 4   | 1   | 1   | -3  | -21 | 0   | 11  | 1   | 4   | -1  | 0   |
| 70% Exceedance                              | 3   | 0   | 1   | 0   | -1  | -2  | 4   | 9   | 8   | -3  | -2  | 0   |
| 80% Exceedance                              | -2  | 0   | -1  | -18 | -3  | 0   | -1  | 0   | 11  | 0   | -5  | 0   |
| 90% Exceedance                              | -3  | -1  | -3  | 1   | 0   | -3  | -5  | 0   | 0   | 0   | -19 | -10 |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -1  | 1   | -4  | -1  | 2   | 4   | 2   | -1  | -3  | -2  |
| Wet Water Years (22%)                       | -1  | 0   | -2  | 5   | -5  | 1   | -1  | 2   | 6   | 5   | -1  | -3  |
| Above Normal Years (12%)                    | 0   | 0   | 0   | -1  | -4  | -2  | 3   | 2   | 1   | 0   | 0   | 0   |
| Below Normal Years (15%)                    | 1   | 0   | -1  | -1  | 0   | 3   | 11  | 8   | 4   | 2   | 1   | 1   |
| Dry Water Years (17%)                       | 3   | 3   | 1   | 1   | -6  | -4  | 4   | 9   | 8   | 4   | 1   | 1   |
| Critical Water Years (34%)                  | -1  | -1  | -2  | 1   | -3  | -1  | -1  | 0   | -5  | -9  | -9  | -4  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Table F.2.5-7-3a. San Joaquin River at Vernalis Salinity (60-20-20), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (22%)                       | 509 | 634 | 602 | 552 | 415 | 292 | 225 | 171 | 280 | 470 | 504 | 497 |
| Above Normal Years (12%)                    | 606 | 694 | 634 | 489 | 393 | 421 | 364 | 319 | 464 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 635 | 710 | 673 | 601 | 539 | 511 | 388 | 364 | 490 | 564 | 575 | 589 |
| Dry Water Years (17%)                       | 681 | 744 | 717 | 683 | 683 | 755 | 552 | 487 | 569 | 601 | 610 | 618 |
| Critical Water Years (34%)                  | 674 | 756 | 741 | 700 | 698 | 794 | 597 | 543 | 601 | 634 | 622 | 625 |

**Table F.2.5-7-3b. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 694 | 766 | 783 | 772 | 732 | 821 | 608 | 552 | 607 | 642 | 632 | 632 |
| 20% Exceedance                              | 680 | 747 | 743 | 716 | 714 | 805 | 601 | 538 | 595 | 635 | 622 | 626 |
| 30% Exceedance                              | 671 | 737 | 730 | 707 | 699 | 784 | 589 | 520 | 588 | 613 | 613 | 621 |
| 40% Exceedance                              | 661 | 733 | 719 | 701 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 612 |
| 50% Exceedance                              | 650 | 724 | 712 | 687 | 678 | 738 | 515 | 460 | 547 | 594 | 599 | 599 |
| 60% Exceedance                              | 637 | 715 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 585 | 589 |
| 70% Exceedance                              | 619 | 698 | 688 | 636 | 542 | 400 | 354 | 345 | 487 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 662 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (22%)                       | 508 | 633 | 600 | 557 | 409 | 293 | 224 | 174 | 286 | 474 | 503 | 495 |
| Above Normal Years (12%)                    | 606 | 694 | 633 | 488 | 390 | 420 | 366 | 321 | 465 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 636 | 710 | 672 | 600 | 539 | 513 | 399 | 372 | 494 | 566 | 576 | 590 |
| Dry Water Years (17%)                       | 684 | 746 | 718 | 684 | 677 | 751 | 556 | 496 | 576 | 606 | 611 | 619 |
| Critical Water Years (34%)                  | 673 | 756 | 740 | 701 | 695 | 792 | 596 | 543 | 596 | 626 | 612 | 621 |

**Table F.2.5-7-3c. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 2   | -2  | -4  | 2   | -7  | 0   | -1  | -1  | -3  | -2  | 2   | -2  |
| 20% Exceedance                              | 4   | 1   | -1  | 0   | -1  | -2  | -1  | 1   | -1  | -2  | -5  | -2  |
| 30% Exceedance                              | 0   | -1  | 1   | 1   | -3  | -1  | 3   | 0   | 0   | -2  | -2  | 0   |
| 40% Exceedance                              | -3  | 1   | 0   | 2   | -3  | -2  | 4   | 8   | 4   | 2   | -2  | -3  |
| 50% Exceedance                              | 2   | 1   | 1   | 0   | -4  | 2   | 0   | 8   | 0   | -2  | -1  | -2  |
| 60% Exceedance                              | 2   | 4   | 1   | 1   | -3  | -21 | 0   | 11  | 1   | 4   | -1  | 0   |
| 70% Exceedance                              | 3   | 0   | 2   | 0   | -1  | -2  | 4   | 9   | 7   | -3  | -2  | 0   |
| 80% Exceedance                              | -2  | 0   | -1  | -18 | -3  | 0   | -1  | 0   | 11  | 0   | -5  | 0   |
| 90% Exceedance                              | -3  | -1  | -3  | 1   | 0   | -3  | -5  | 0   | 0   | 0   | -19 | -10 |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -1  | 1   | -4  | -1  | 2   | 4   | 2   | -1  | -3  | -2  |
| Wet Water Years (22%)                       | 0   | 0   | -2  | 5   | -5  | 1   | -1  | 2   | 6   | 5   | -1  | -3  |
| Above Normal Years (12%)                    | 0   | 0   | 0   | -1  | -3  | -2  | 3   | 2   | 1   | 0   | 0   | 0   |
| Below Normal Years (15%)                    | 1   | 0   | -1  | -1  | -1  | 3   | 11  | 8   | 4   | 2   | 1   | 0   |
| Dry Water Years (17%)                       | 2   | 3   | 1   | 1   | -6  | -4  | 4   | 9   | 8   | 4   | 1   | 1   |
| Critical Water Years (34%)                  | -1  | -1  | -1  | 1   | -3  | -1  | -1  | 0   | -5  | -9  | -10 | -4  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Table F.2.5-7-4a. San Joaquin River at Vernalis Salinity (60-20-20), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (22%)                       | 509 | 634 | 602 | 552 | 415 | 292 | 225 | 171 | 280 | 470 | 504 | 497 |
| Above Normal Years (12%)                    | 606 | 694 | 634 | 489 | 393 | 421 | 364 | 319 | 464 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 635 | 710 | 673 | 601 | 539 | 511 | 388 | 364 | 490 | 564 | 575 | 589 |
| Dry Water Years (17%)                       | 681 | 744 | 717 | 683 | 683 | 755 | 552 | 487 | 569 | 601 | 610 | 618 |
| Critical Water Years (34%)                  | 674 | 756 | 741 | 700 | 698 | 794 | 597 | 543 | 601 | 634 | 622 | 625 |

**Table F.2.5-7-4b. San Joaquin River at Vernalis Salinity (60-20-20), Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 691 | 762 | 785 | 771 | 732 | 820 | 607 | 552 | 606 | 644 | 632 | 632 |
| 20% Exceedance                              | 677 | 747 | 742 | 718 | 714 | 804 | 601 | 537 | 595 | 638 | 624 | 628 |
| 30% Exceedance                              | 670 | 740 | 729 | 706 | 699 | 783 | 589 | 521 | 588 | 614 | 614 | 621 |
| 40% Exceedance                              | 663 | 735 | 720 | 699 | 689 | 760 | 576 | 510 | 580 | 606 | 608 | 611 |
| 50% Exceedance                              | 649 | 724 | 712 | 688 | 678 | 733 | 515 | 459 | 548 | 597 | 599 | 600 |
| 60% Exceedance                              | 636 | 713 | 698 | 674 | 619 | 551 | 412 | 401 | 506 | 579 | 585 | 590 |
| 70% Exceedance                              | 619 | 698 | 688 | 632 | 540 | 400 | 354 | 345 | 487 | 561 | 571 | 582 |
| 80% Exceedance                              | 565 | 680 | 663 | 510 | 309 | 326 | 286 | 243 | 399 | 536 | 556 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 625 | 568 | 588 | 450 | 401 | 494 | 574 | 581 | 584 |
| Wet Water Years (22%)                       | 508 | 633 | 600 | 557 | 409 | 293 | 224 | 174 | 285 | 474 | 503 | 495 |
| Above Normal Years (12%)                    | 606 | 694 | 633 | 488 | 389 | 420 | 366 | 320 | 464 | 565 | 584 | 586 |
| Below Normal Years (15%)                    | 636 | 710 | 672 | 600 | 538 | 509 | 397 | 372 | 494 | 566 | 576 | 590 |
| Dry Water Years (17%)                       | 683 | 746 | 719 | 681 | 675 | 749 | 556 | 496 | 576 | 606 | 611 | 618 |
| Critical Water Years (34%)                  | 673 | 755 | 739 | 701 | 694 | 791 | 596 | 543 | 598 | 629 | 616 | 621 |

**Table F.2.5-7-4c. San Joaquin River at Vernalis Salinity (60-20-20), Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | -6  | -2  | 0   | -8  | -2  | -1  | 0   | -4  | 0   | 2   | -2  |
| 20% Exceedance                              | 0   | 0   | -2  | 1   | -1  | -3  | -1  | 0   | -1  | 0   | -3  | -1  |
| 30% Exceedance                              | -1  | 2   | 0   | 0   | -4  | -3  | 2   | 0   | 1   | -1  | -1  | 0   |
| 40% Exceedance                              | -1  | 3   | 2   | 1   | -4  | -3  | 4   | 8   | 6   | 3   | -1  | -4  |
| 50% Exceedance                              | 1   | 0   | 1   | 1   | -4  | -4  | 0   | 7   | 1   | 1   | -1  | -1  |
| 60% Exceedance                              | 1   | 2   | 1   | 1   | -2  | -21 | 0   | 10  | 1   | 6   | 0   | 1   |
| 70% Exceedance                              | 2   | 0   | 1   | -4  | -3  | -3  | 4   | 9   | 7   | -2  | 0   | 0   |
| 80% Exceedance                              | -2  | 0   | -1  | -18 | -3  | 0   | -1  | 0   | 11  | 2   | -4  | 0   |
| 90% Exceedance                              | -3  | 0   | -3  | 1   | 0   | -3  | -5  | 0   | 0   | 0   | -19 | -10 |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -1  | 1   | -4  | -2  | 2   | 3   | 2   | 0   | -2  | -2  |
| Wet Water Years (22%)                       | -1  | 0   | -2  | 5   | -6  | 1   | -1  | 2   | 6   | 5   | -1  | -3  |
| Above Normal Years (12%)                    | 0   | 0   | -1  | -1  | -3  | -2  | 2   | 1   | 0   | 0   | -1  | -1  |
| Below Normal Years (15%)                    | 1   | 1   | -1  | -1  | -1  | -2  | 9   | 7   | 4   | 2   | 1   | 0   |
| Dry Water Years (17%)                       | 2   | 3   | 2   | -2  | -7  | -6  | 4   | 9   | 8   | 4   | 1   | 0   |
| Critical Water Years (34%)                  | -1  | -1  | -2  | 1   | -4  | -2  | -1  | 0   | -3  | -5  | -6  | -3  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Table F.2.5-7-5a. San Joaquin River at Vernalis Salinity (60-20-20), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (22%)                       | 509 | 634 | 602 | 552 | 415 | 292 | 225 | 171 | 280 | 470 | 504 | 497 |
| Above Normal Years (12%)                    | 606 | 694 | 634 | 489 | 393 | 421 | 364 | 319 | 464 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 635 | 710 | 673 | 601 | 539 | 511 | 388 | 364 | 490 | 564 | 575 | 589 |
| Dry Water Years (17%)                       | 681 | 744 | 717 | 683 | 683 | 755 | 552 | 487 | 569 | 601 | 610 | 618 |
| Critical Water Years (34%)                  | 674 | 756 | 741 | 700 | 698 | 794 | 597 | 543 | 601 | 634 | 622 | 625 |

**Table F.2.5-7-5b. San Joaquin River at Vernalis Salinity (60-20-20), EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 694 | 774 | 781 | 763 | 740 | 814 | 603 | 547 | 577 | 590 | 631 | 643 |
| 20% Exceedance                              | 686 | 755 | 747 | 711 | 710 | 794 | 590 | 537 | 562 | 587 | 618 | 636 |
| 30% Exceedance                              | 676 | 745 | 732 | 701 | 690 | 766 | 577 | 526 | 553 | 584 | 601 | 630 |
| 40% Exceedance                              | 672 | 736 | 725 | 687 | 677 | 740 | 562 | 506 | 545 | 581 | 597 | 627 |
| 50% Exceedance                              | 665 | 728 | 718 | 677 | 650 | 699 | 513 | 459 | 539 | 579 | 594 | 622 |
| 60% Exceedance                              | 651 | 712 | 704 | 645 | 602 | 575 | 384 | 400 | 519 | 572 | 590 | 615 |
| 70% Exceedance                              | 623 | 700 | 665 | 621 | 466 | 390 | 342 | 347 | 498 | 562 | 586 | 593 |
| 80% Exceedance                              | 546 | 661 | 636 | 478 | 292 | 324 | 275 | 275 | 423 | 533 | 579 | 534 |
| 90% Exceedance                              | 492 | 626 | 520 | 250 | 174 | 210 | 179 | 114 | 293 | 486 | 463 | 444 |
| Full Simulation Period Average <sup>a</sup> | 628 | 706 | 673 | 609 | 552 | 579 | 440 | 404 | 485 | 556 | 576 | 587 |
| Wet Water Years (22%)                       | 503 | 625 | 591 | 525 | 399 | 301 | 225 | 179 | 300 | 477 | 484 | 476 |
| Above Normal Years (12%)                    | 599 | 682 | 608 | 475 | 375 | 413 | 345 | 338 | 480 | 567 | 612 | 584 |
| Below Normal Years (15%)                    | 645 | 699 | 661 | 586 | 502 | 508 | 377 | 379 | 499 | 566 | 618 | 611 |
| Dry Water Years (17%)                       | 693 | 730 | 714 | 667 | 655 | 729 | 541 | 494 | 558 | 582 | 593 | 626 |
| Critical Water Years (34%)                  | 681 | 760 | 737 | 691 | 684 | 774 | 589 | 538 | 565 | 585 | 595 | 630 |

**Table F.2.5-7-5c. San Joaquin River at Vernalis Salinity (60-20-20), EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 2   | 6   | -5  | -7  | 0   | -8  | -6  | -6  | -34 | -54 | 1   | 9   |
| 20% Exceedance                              | 10  | 9   | 3   | -6  | -4  | -13 | -11 | 1   | -34 | -51 | -8  | 8   |
| 30% Exceedance                              | 5   | 7   | 3   | -5  | -12 | -20 | -10 | 5   | -34 | -31 | -14 | 9   |
| 40% Exceedance                              | 8   | 4   | 6   | -12 | -15 | -23 | -10 | 4   | -29 | -22 | -11 | 12  |
| 50% Exceedance                              | 17  | 5   | 7   | -10 | -31 | -38 | -1  | 7   | -8  | -17 | -6  | 21  |
| 60% Exceedance                              | 17  | 1   | 6   | -28 | -19 | 3   | -28 | 9   | 14  | -1  | 5   | 26  |
| 70% Exceedance                              | 7   | 2   | -22 | -15 | -77 | -13 | -8  | 12  | 18  | -1  | 15  | 11  |
| 80% Exceedance                              | -21 | -20 | -27 | -50 | -20 | -1  | -12 | 32  | 36  | -2  | 19  | -33 |
| 90% Exceedance                              | -15 | -20 | -59 | -24 | 1   | -5  | -4  | 2   | 21  | 9   | -62 | -36 |
| Full Simulation Period Average <sup>a</sup> | 4   | -6  | -9  | -16 | -20 | -10 | -8  | 6   | -6  | -18 | -7  | 2   |
| Wet Water Years (22%)                       | -6  | -9  | -11 | -27 | -15 | 9   | 1   | 8   | 20  | 8   | -20 | -21 |
| Above Normal Years (12%)                    | -7  | -12 | -25 | -14 | -18 | -8  | -18 | 19  | 16  | 1   | 27  | -3  |
| Below Normal Years (15%)                    | 10  | -11 | -12 | -15 | -37 | -2  | -11 | 15  | 9   | 2   | 43  | 22  |
| Dry Water Years (17%)                       | 11  | -14 | -3  | -16 | -28 | -26 | -11 | 7   | -11 | -19 | -18 | 8   |
| Critical Water Years (34%)                  | 7   | 4   | -3  | -9  | -13 | -19 | -7  | -5  | -36 | -49 | -27 | 6   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Table F.2.5-7-6a. San Joaquin River at Vernalis Salinity (60-20-20), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (22%)                       | 581 | 673 | 623 | 440 | 345 | 240 | 180 | 159 | 279 | 466 | 550 | 588 |
| Above Normal Years (12%)                    | 646 | 710 | 623 | 474 | 364 | 367 | 311 | 293 | 458 | 539 | 577 | 611 |
| Below Normal Years (15%)                    | 696 | 730 | 666 | 552 | 447 | 438 | 330 | 333 | 479 | 554 | 582 | 629 |
| Dry Water Years (17%)                       | 716 | 732 | 666 | 647 | 612 | 637 | 481 | 461 | 538 | 579 | 594 | 632 |
| Critical Water Years (34%)                  | 714 | 778 | 736 | 690 | 667 | 742 | 583 | 547 | 558 | 587 | 599 | 637 |

**Table F.2.5-7-6b. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 693 | 764 | 786 | 772 | 732 | 820 | 607 | 552 | 607 | 641 | 631 | 632 |
| 20% Exceedance                              | 679 | 748 | 743 | 716 | 714 | 804 | 601 | 537 | 595 | 636 | 622 | 628 |
| 30% Exceedance                              | 671 | 738 | 730 | 706 | 699 | 783 | 589 | 521 | 588 | 613 | 613 | 622 |
| 40% Exceedance                              | 663 | 733 | 721 | 700 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 614 |
| 50% Exceedance                              | 650 | 724 | 711 | 687 | 678 | 742 | 515 | 460 | 547 | 594 | 599 | 599 |
| 60% Exceedance                              | 635 | 712 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 584 | 589 |
| 70% Exceedance                              | 619 | 698 | 688 | 636 | 541 | 400 | 354 | 345 | 488 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 662 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (22%)                       | 508 | 633 | 600 | 557 | 409 | 294 | 224 | 174 | 286 | 474 | 503 | 495 |
| Above Normal Years (12%)                    | 606 | 694 | 633 | 488 | 389 | 420 | 366 | 321 | 465 | 566 | 585 | 587 |
| Below Normal Years (15%)                    | 636 | 710 | 672 | 600 | 539 | 514 | 399 | 372 | 494 | 566 | 576 | 590 |
| Dry Water Years (17%)                       | 684 | 747 | 719 | 684 | 677 | 750 | 556 | 496 | 576 | 606 | 611 | 619 |
| Critical Water Years (34%)                  | 673 | 755 | 739 | 701 | 694 | 791 | 596 | 543 | 596 | 626 | 613 | 621 |

**Table F.2.5-7-6c. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -36 | -23 | 10  | 36  | 30  | 39  | -1  | -10 | 41  | 51  | 29  | -11  |
| 20% Exceedance                              | -39 | -17 | -8  | 10  | 32  | 70  | 23  | -4  | 35  | 48  | 22  | -9   |
| 30% Exceedance                              | -38 | -18 | -14 | 17  | 54  | 80  | 39  | -7  | 36  | 28  | 16  | -11  |
| 40% Exceedance                              | -39 | -15 | -10 | 30  | 66  | 95  | 58  | 27  | 34  | 23  | 11  | -16  |
| 50% Exceedance                              | -47 | -20 | -12 | 50  | 83  | 158 | 87  | 43  | 30  | 18  | 5   | -30  |
| 60% Exceedance                              | -53 | -23 | 0   | 64  | 96  | 99  | 55  | 36  | 0   | 15  | -4  | -35  |
| 70% Exceedance                              | -45 | -24 | 10  | 78  | 86  | 52  | 48  | 45  | -2  | 11  | -13 | -30  |
| 80% Exceedance                              | -58 | -24 | 34  | 38  | 47  | 42  | 53  | 16  | 17  | 25  | -16 | -37  |
| 90% Exceedance                              | -64 | -41 | 54  | 8   | 21  | 28  | 56  | 13  | 17  | 2   | -43 | -117 |
| Full Simulation Period Average <sup>a</sup> | -49 | -19 | 7   | 45  | 51  | 66  | 44  | 17  | 24  | 24  | -3  | -37  |
| Wet Water Years (22%)                       | -73 | -40 | -23 | 117 | 64  | 54  | 44  | 15  | 6   | 8   | -47 | -93  |
| Above Normal Years (12%)                    | -40 | -16 | 10  | 14  | 25  | 53  | 55  | 27  | 6   | 27  | 7   | -24  |
| Below Normal Years (15%)                    | -60 | -20 | 6   | 48  | 92  | 76  | 69  | 39  | 15  | 12  | -6  | -39  |
| Dry Water Years (17%)                       | -32 | 14  | 53  | 37  | 65  | 114 | 76  | 35  | 38  | 26  | 17  | -13  |
| Critical Water Years (34%)                  | -41 | -24 | 3   | 11  | 27  | 50  | 13  | -3  | 38  | 39  | 13  | -17  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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



**Table F.2.5-7-7a. San Joaquin River at Vernalis Salinity (60-20-20), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (22%)                       | 581 | 673 | 623 | 440 | 345 | 240 | 180 | 159 | 279 | 466 | 550 | 588 |
| Above Normal Years (12%)                    | 646 | 710 | 623 | 474 | 364 | 367 | 311 | 293 | 458 | 539 | 577 | 611 |
| Below Normal Years (15%)                    | 696 | 730 | 666 | 552 | 447 | 438 | 330 | 333 | 479 | 554 | 582 | 629 |
| Dry Water Years (17%)                       | 716 | 732 | 666 | 647 | 612 | 637 | 481 | 461 | 538 | 579 | 594 | 632 |
| Critical Water Years (34%)                  | 714 | 778 | 736 | 690 | 667 | 742 | 583 | 547 | 558 | 587 | 599 | 637 |

**Table F.2.5-7-7b. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 690 | 761 | 784 | 772 | 732 | 821 | 608 | 553 | 607 | 641 | 631 | 632 |
| 20% Exceedance                              | 678 | 747 | 743 | 716 | 714 | 804 | 601 | 537 | 595 | 636 | 622 | 628 |
| 30% Exceedance                              | 671 | 737 | 730 | 706 | 699 | 784 | 589 | 521 | 588 | 613 | 614 | 622 |
| 40% Exceedance                              | 660 | 733 | 718 | 701 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 614 |
| 50% Exceedance                              | 649 | 724 | 712 | 687 | 678 | 742 | 515 | 460 | 547 | 594 | 599 | 598 |
| 60% Exceedance                              | 637 | 714 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 585 | 589 |
| 70% Exceedance                              | 619 | 698 | 687 | 636 | 542 | 400 | 354 | 345 | 487 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 663 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (22%)                       | 508 | 633 | 600 | 557 | 409 | 293 | 224 | 174 | 286 | 474 | 503 | 495 |
| Above Normal Years (12%)                    | 606 | 694 | 633 | 488 | 389 | 420 | 366 | 321 | 465 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 636 | 710 | 672 | 600 | 539 | 514 | 399 | 372 | 494 | 566 | 576 | 590 |
| Dry Water Years (17%)                       | 685 | 746 | 718 | 684 | 677 | 751 | 556 | 496 | 576 | 606 | 611 | 619 |
| Critical Water Years (34%)                  | 673 | 755 | 739 | 701 | 694 | 793 | 596 | 543 | 596 | 626 | 613 | 620 |

**Table F.2.5-7-7c. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -39 | -26 | 8   | 36  | 30  | 41  | 0   | -10 | 42  | 51  | 29  | -11  |
| 20% Exceedance                              | -40 | -18 | -8  | 10  | 32  | 70  | 23  | -4  | 35  | 48  | 22  | -9   |
| 30% Exceedance                              | -38 | -18 | -13 | 17  | 55  | 81  | 40  | -7  | 35  | 27  | 17  | -11  |
| 40% Exceedance                              | -42 | -16 | -13 | 32  | 66  | 95  | 58  | 27  | 34  | 23  | 11  | -16  |
| 50% Exceedance                              | -47 | -19 | -11 | 50  | 83  | 158 | 87  | 43  | 30  | 17  | 5   | -31  |
| 60% Exceedance                              | -51 | -20 | 0   | 64  | 95  | 99  | 55  | 37  | 0   | 15  | -4  | -35  |
| 70% Exceedance                              | -45 | -24 | 9   | 78  | 88  | 52  | 48  | 45  | -2  | 11  | -12 | -29  |
| 80% Exceedance                              | -58 | -24 | 34  | 38  | 47  | 42  | 53  | 16  | 17  | 25  | -16 | -37  |
| 90% Exceedance                              | -64 | -41 | 54  | 8   | 21  | 28  | 56  | 13  | 17  | 2   | -42 | -117 |
| Full Simulation Period Average <sup>a</sup> | -49 | -19 | 7   | 45  | 51  | 66  | 44  | 17  | 24  | 24  | -3  | -37  |
| Wet Water Years (22%)                       | -73 | -40 | -23 | 117 | 65  | 53  | 44  | 15  | 6   | 8   | -47 | -93  |
| Above Normal Years (12%)                    | -40 | -16 | 10  | 14  | 25  | 53  | 55  | 27  | 6   | 27  | 7   | -24  |
| Below Normal Years (15%)                    | -60 | -21 | 6   | 48  | 92  | 76  | 68  | 39  | 15  | 12  | -6  | -39  |
| Dry Water Years (17%)                       | -31 | 14  | 53  | 37  | 65  | 114 | 76  | 35  | 38  | 26  | 17  | -13  |
| Critical Water Years (34%)                  | -41 | -23 | 3   | 11  | 27  | 51  | 13  | -3  | 38  | 39  | 13  | -17  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Table F.2.5-7-8a. San Joaquin River at Vernalis Salinity (60-20-20), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (22%)                       | 581 | 673 | 623 | 440 | 345 | 240 | 180 | 159 | 279 | 466 | 550 | 588 |
| Above Normal Years (12%)                    | 646 | 710 | 623 | 474 | 364 | 367 | 311 | 293 | 458 | 539 | 577 | 611 |
| Below Normal Years (15%)                    | 696 | 730 | 666 | 552 | 447 | 438 | 330 | 333 | 479 | 554 | 582 | 629 |
| Dry Water Years (17%)                       | 716 | 732 | 666 | 647 | 612 | 637 | 481 | 461 | 538 | 579 | 594 | 632 |
| Critical Water Years (34%)                  | 714 | 778 | 736 | 690 | 667 | 742 | 583 | 547 | 558 | 587 | 599 | 637 |

**Table F.2.5-7-8b. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 694 | 766 | 783 | 772 | 732 | 821 | 608 | 552 | 607 | 642 | 632 | 632 |
| 20% Exceedance                              | 680 | 747 | 743 | 716 | 714 | 805 | 601 | 538 | 595 | 635 | 622 | 626 |
| 30% Exceedance                              | 671 | 737 | 730 | 707 | 699 | 784 | 589 | 520 | 588 | 613 | 613 | 621 |
| 40% Exceedance                              | 661 | 733 | 719 | 701 | 689 | 760 | 576 | 510 | 578 | 605 | 607 | 612 |
| 50% Exceedance                              | 650 | 724 | 712 | 687 | 678 | 738 | 515 | 460 | 547 | 594 | 599 | 599 |
| 60% Exceedance                              | 637 | 715 | 699 | 674 | 619 | 551 | 412 | 401 | 506 | 577 | 585 | 589 |
| 70% Exceedance                              | 619 | 698 | 688 | 636 | 542 | 400 | 354 | 345 | 487 | 559 | 569 | 582 |
| 80% Exceedance                              | 565 | 681 | 662 | 510 | 309 | 326 | 286 | 243 | 399 | 535 | 554 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 626 | 569 | 589 | 450 | 402 | 493 | 573 | 579 | 584 |
| Wet Water Years (22%)                       | 508 | 633 | 600 | 557 | 409 | 293 | 224 | 174 | 286 | 474 | 503 | 495 |
| Above Normal Years (12%)                    | 606 | 694 | 633 | 488 | 390 | 420 | 366 | 321 | 465 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 636 | 710 | 672 | 600 | 539 | 513 | 399 | 372 | 494 | 566 | 576 | 590 |
| Dry Water Years (17%)                       | 684 | 746 | 718 | 684 | 677 | 751 | 556 | 496 | 576 | 606 | 611 | 619 |
| Critical Water Years (34%)                  | 673 | 756 | 740 | 701 | 695 | 792 | 596 | 543 | 596 | 626 | 612 | 621 |

**Table F.2.5-7-8c. San Joaquin River at Vernalis Salinity (60-20-20), Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -35 | -21 | 7   | 36  | 30  | 41  | 0   | -10 | 41  | 52  | 30  | -11  |
| 20% Exceedance                              | -38 | -18 | -8  | 10  | 32  | 71  | 23  | -4  | 35  | 48  | 22  | -10  |
| 30% Exceedance                              | -38 | -19 | -13 | 18  | 55  | 81  | 40  | -7  | 35  | 27  | 16  | -11  |
| 40% Exceedance                              | -41 | -16 | -12 | 32  | 66  | 95  | 58  | 27  | 34  | 22  | 11  | -18  |
| 50% Exceedance                              | -47 | -19 | -11 | 50  | 83  | 154 | 87  | 43  | 30  | 18  | 5   | -29  |
| 60% Exceedance                              | -51 | -19 | -1  | 64  | 95  | 99  | 55  | 37  | 0   | 15  | -4  | -35  |
| 70% Exceedance                              | -45 | -24 | 10  | 78  | 88  | 52  | 48  | 45  | -2  | 11  | -13 | -29  |
| 80% Exceedance                              | -58 | -24 | 34  | 38  | 47  | 42  | 53  | 16  | 17  | 25  | -16 | -37  |
| 90% Exceedance                              | -64 | -41 | 54  | 8   | 21  | 28  | 56  | 13  | 17  | 2   | -42 | -117 |
| Full Simulation Period Average <sup>a</sup> | -49 | -19 | 8   | 45  | 51  | 66  | 44  | 17  | 24  | 24  | -3  | -37  |
| Wet Water Years (22%)                       | -73 | -40 | -23 | 117 | 65  | 53  | 44  | 15  | 6   | 8   | -47 | -93  |
| Above Normal Years (12%)                    | -40 | -16 | 10  | 14  | 26  | 53  | 56  | 27  | 6   | 27  | 7   | -24  |
| Below Normal Years (15%)                    | -60 | -20 | 6   | 48  | 92  | 76  | 68  | 39  | 15  | 12  | -6  | -39  |
| Dry Water Years (17%)                       | -32 | 14  | 53  | 36  | 65  | 114 | 76  | 35  | 38  | 26  | 17  | -12  |
| Critical Water Years (34%)                  | -41 | -23 | 4   | 11  | 27  | 51  | 13  | -4  | 38  | 39  | 13  | -17  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Table F.2.5-7-9a. San Joaquin River at Vernalis Salinity (60-20-20), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (22%)                       | 581 | 673 | 623 | 440 | 345 | 240 | 180 | 159 | 279 | 466 | 550 | 588 |
| Above Normal Years (12%)                    | 646 | 710 | 623 | 474 | 364 | 367 | 311 | 293 | 458 | 539 | 577 | 611 |
| Below Normal Years (15%)                    | 696 | 730 | 666 | 552 | 447 | 438 | 330 | 333 | 479 | 554 | 582 | 629 |
| Dry Water Years (17%)                       | 716 | 732 | 666 | 647 | 612 | 637 | 481 | 461 | 538 | 579 | 594 | 632 |
| Critical Water Years (34%)                  | 714 | 778 | 736 | 690 | 667 | 742 | 583 | 547 | 558 | 587 | 599 | 637 |

**Table F.2.5-7-9b. San Joaquin River at Vernalis Salinity (60-20-20), Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 691 | 762 | 785 | 771 | 732 | 820 | 607 | 552 | 606 | 644 | 632 | 632 |
| 20% Exceedance                              | 677 | 747 | 742 | 718 | 714 | 804 | 601 | 537 | 595 | 638 | 624 | 628 |
| 30% Exceedance                              | 670 | 740 | 729 | 706 | 699 | 783 | 589 | 521 | 588 | 614 | 614 | 621 |
| 40% Exceedance                              | 663 | 735 | 720 | 699 | 689 | 760 | 576 | 510 | 580 | 606 | 608 | 611 |
| 50% Exceedance                              | 649 | 724 | 712 | 688 | 678 | 733 | 515 | 459 | 548 | 597 | 599 | 600 |
| 60% Exceedance                              | 636 | 713 | 698 | 674 | 619 | 551 | 412 | 401 | 506 | 579 | 585 | 590 |
| 70% Exceedance                              | 619 | 698 | 688 | 632 | 540 | 400 | 354 | 345 | 487 | 561 | 571 | 582 |
| 80% Exceedance                              | 565 | 680 | 663 | 510 | 309 | 326 | 286 | 243 | 399 | 536 | 556 | 567 |
| 90% Exceedance                              | 504 | 645 | 576 | 275 | 173 | 212 | 179 | 112 | 271 | 478 | 507 | 470 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 681 | 625 | 568 | 588 | 450 | 401 | 494 | 574 | 581 | 584 |
| Wet Water Years (22%)                       | 508 | 633 | 600 | 557 | 409 | 293 | 224 | 174 | 285 | 474 | 503 | 495 |
| Above Normal Years (12%)                    | 606 | 694 | 633 | 488 | 389 | 420 | 366 | 320 | 464 | 565 | 584 | 586 |
| Below Normal Years (15%)                    | 636 | 710 | 672 | 600 | 538 | 509 | 397 | 372 | 494 | 566 | 576 | 590 |
| Dry Water Years (17%)                       | 683 | 746 | 719 | 681 | 675 | 749 | 556 | 496 | 576 | 606 | 611 | 618 |
| Critical Water Years (34%)                  | 673 | 755 | 739 | 701 | 694 | 791 | 596 | 543 | 598 | 629 | 616 | 621 |

**Table F.2.5-7-9c. San Joaquin River at Vernalis Salinity (60-20-20), Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -38 | -26 | 9   | 34  | 30  | 39  | -1  | -10 | 41  | 54  | 30  | -11  |
| 20% Exceedance                              | -42 | -18 | -9  | 11  | 32  | 70  | 23  | -4  | 35  | 50  | 24  | -9   |
| 30% Exceedance                              | -39 | -16 | -14 | 17  | 54  | 80  | 39  | -7  | 36  | 29  | 17  | -11  |
| 40% Exceedance                              | -39 | -14 | -11 | 30  | 66  | 95  | 58  | 27  | 36  | 23  | 12  | -19  |
| 50% Exceedance                              | -47 | -20 | -11 | 50  | 83  | 149 | 87  | 42  | 31  | 20  | 5   | -28  |
| 60% Exceedance                              | -52 | -21 | -1  | 64  | 96  | 99  | 55  | 36  | 0   | 17  | -3  | -34  |
| 70% Exceedance                              | -45 | -24 | 9   | 74  | 86  | 52  | 47  | 45  | -3  | 13  | -10 | -29  |
| 80% Exceedance                              | -58 | -24 | 34  | 38  | 47  | 42  | 53  | 16  | 17  | 27  | -15 | -37  |
| 90% Exceedance                              | -64 | -41 | 54  | 8   | 21  | 28  | 56  | 13  | 17  | 2   | -43 | -117 |
| Full Simulation Period Average <sup>a</sup> | -50 | -19 | 7   | 44  | 51  | 65  | 44  | 17  | 24  | 25  | -2  | -37  |
| Wet Water Years (22%)                       | -73 | -40 | -23 | 117 | 64  | 53  | 44  | 15  | 6   | 8   | -47 | -93  |
| Above Normal Years (12%)                    | -41 | -16 | 10  | 14  | 25  | 53  | 55  | 27  | 6   | 26  | 6   | -25  |
| Below Normal Years (15%)                    | -60 | -20 | 6   | 48  | 91  | 71  | 67  | 39  | 15  | 12  | -6  | -39  |
| Dry Water Years (17%)                       | -33 | 14  | 53  | 34  | 63  | 113 | 75  | 35  | 38  | 26  | 17  | -13  |
| Critical Water Years (34%)                  | -42 | -23 | 3   | 11  | 27  | 50  | 13  | -4  | 40  | 42  | 17  | -16  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Table F.2.5-7-10a. San Joaquin River at Vernalis Salinity (60-20-20), EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 729 | 788 | 776 | 736 | 702 | 780 | 608 | 562 | 566 | 590 | 602 | 643 |
| 20% Exceedance                              | 718 | 765 | 751 | 707 | 682 | 734 | 578 | 541 | 560 | 588 | 600 | 637 |
| 30% Exceedance                              | 709 | 756 | 743 | 689 | 644 | 704 | 550 | 528 | 553 | 585 | 597 | 633 |
| 40% Exceedance                              | 702 | 749 | 731 | 669 | 623 | 665 | 518 | 483 | 544 | 582 | 596 | 630 |
| 50% Exceedance                              | 697 | 743 | 723 | 637 | 595 | 584 | 428 | 417 | 517 | 577 | 594 | 628 |
| 60% Exceedance                              | 688 | 734 | 699 | 610 | 524 | 452 | 358 | 364 | 506 | 562 | 588 | 624 |
| 70% Exceedance                              | 664 | 722 | 678 | 558 | 454 | 348 | 306 | 300 | 490 | 548 | 581 | 612 |
| 80% Exceedance                              | 623 | 704 | 628 | 473 | 262 | 284 | 233 | 227 | 382 | 510 | 570 | 604 |
| 90% Exceedance                              | 568 | 686 | 523 | 267 | 152 | 184 | 123 | 99  | 253 | 476 | 549 | 586 |
| Full Simulation Period Average <sup>a</sup> | 674 | 731 | 674 | 581 | 517 | 523 | 406 | 384 | 469 | 548 | 582 | 621 |
| Wet Water Years (22%)                       | 581 | 673 | 623 | 440 | 345 | 240 | 180 | 159 | 279 | 466 | 550 | 588 |
| Above Normal Years (12%)                    | 646 | 710 | 623 | 474 | 364 | 367 | 311 | 293 | 458 | 539 | 577 | 611 |
| Below Normal Years (15%)                    | 696 | 730 | 666 | 552 | 447 | 438 | 330 | 333 | 479 | 554 | 582 | 629 |
| Dry Water Years (17%)                       | 716 | 732 | 666 | 647 | 612 | 637 | 481 | 461 | 538 | 579 | 594 | 632 |
| Critical Water Years (34%)                  | 714 | 778 | 736 | 690 | 667 | 742 | 583 | 547 | 558 | 587 | 599 | 637 |

**Table F.2.5-7-10b. San Joaquin River at Vernalis Salinity (60-20-20), NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 692 | 768 | 787 | 770 | 740 | 822 | 609 | 553 | 610 | 644 | 630 | 634 |
| 20% Exceedance                              | 676 | 747 | 743 | 717 | 715 | 807 | 601 | 536 | 596 | 638 | 626 | 628 |
| 30% Exceedance                              | 671 | 738 | 729 | 706 | 703 | 786 | 587 | 521 | 587 | 615 | 615 | 622 |
| 40% Exceedance                              | 664 | 732 | 719 | 698 | 692 | 762 | 572 | 502 | 574 | 603 | 609 | 616 |
| 50% Exceedance                              | 648 | 724 | 711 | 687 | 681 | 736 | 515 | 452 | 547 | 596 | 600 | 601 |
| 60% Exceedance                              | 635 | 711 | 698 | 673 | 622 | 571 | 413 | 391 | 505 | 573 | 586 | 589 |
| 70% Exceedance                              | 617 | 698 | 687 | 636 | 543 | 403 | 350 | 336 | 480 | 563 | 571 | 582 |
| 80% Exceedance                              | 567 | 680 | 664 | 529 | 312 | 326 | 287 | 243 | 388 | 535 | 559 | 567 |
| 90% Exceedance                              | 507 | 646 | 579 | 274 | 173 | 215 | 184 | 112 | 271 | 478 | 525 | 480 |
| Full Simulation Period Average <sup>a</sup> | 624 | 712 | 682 | 625 | 573 | 590 | 448 | 398 | 492 | 574 | 583 | 586 |
| Wet Water Years (22%)                       | 509 | 634 | 602 | 552 | 415 | 292 | 225 | 171 | 280 | 470 | 504 | 497 |
| Above Normal Years (12%)                    | 606 | 694 | 634 | 489 | 393 | 421 | 364 | 319 | 464 | 566 | 584 | 587 |
| Below Normal Years (15%)                    | 635 | 710 | 673 | 601 | 539 | 511 | 388 | 364 | 490 | 564 | 575 | 589 |
| Dry Water Years (17%)                       | 681 | 744 | 717 | 683 | 683 | 755 | 552 | 487 | 569 | 601 | 610 | 618 |
| Critical Water Years (34%)                  | 674 | 756 | 741 | 700 | 698 | 794 | 597 | 543 | 601 | 634 | 622 | 625 |

**Table F.2.5-7-10c. San Joaquin River at Vernalis Salinity (60-20-20), NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -37 | -20 | 11  | 34  | 38  | 42  | 0   | -10 | 45  | 54  | 28  | -9   |
| 20% Exceedance                              | -42 | -19 | -8  | 10  | 33  | 73  | 23  | -5  | 36  | 50  | 26  | -8   |
| 30% Exceedance                              | -38 | -18 | -14 | 17  | 58  | 82  | 37  | -7  | 35  | 30  | 18  | -11  |
| 40% Exceedance                              | -38 | -17 | -12 | 29  | 70  | 98  | 54  | 19  | 30  | 21  | 13  | -15  |
| 50% Exceedance                              | -49 | -20 | -12 | 49  | 87  | 152 | 87  | 35  | 30  | 19  | 6   | -27  |
| 60% Exceedance                              | -53 | -24 | -2  | 62  | 98  | 119 | 55  | 26  | -1  | 11  | -3  | -35  |
| 70% Exceedance                              | -48 | -24 | 8   | 78  | 89  | 55  | 44  | 36  | -10 | 15  | -10 | -29  |
| 80% Exceedance                              | -56 | -24 | 35  | 56  | 50  | 42  | 54  | 16  | 6   | 25  | -11 | -37  |
| 90% Exceedance                              | -60 | -40 | 56  | 6   | 21  | 31  | 60  | 13  | 18  | 2   | -24 | -107 |
| Full Simulation Period Average <sup>a</sup> | -49 | -19 | 8   | 43  | 55  | 67  | 42  | 14  | 22  | 25  | 0   | -35  |
| Wet Water Years (22%)                       | -73 | -40 | -21 | 112 | 70  | 52  | 45  | 13  | 0   | 3   | -46 | -90  |
| Above Normal Years (12%)                    | -40 | -16 | 11  | 16  | 29  | 54  | 53  | 26  | 5   | 27  | 7   | -24  |
| Below Normal Years (15%)                    | -61 | -20 | 7   | 49  | 93  | 73  | 57  | 31  | 11  | 9   | -6  | -39  |
| Dry Water Years (17%)                       | -34 | 11  | 52  | 36  | 71  | 118 | 71  | 25  | 31  | 22  | 16  | -13  |
| Critical Water Years (34%)                  | -40 | -22 | 5   | 10  | 30  | 52  | 14  | -4  | 43  | 48  | 23  | -13  |

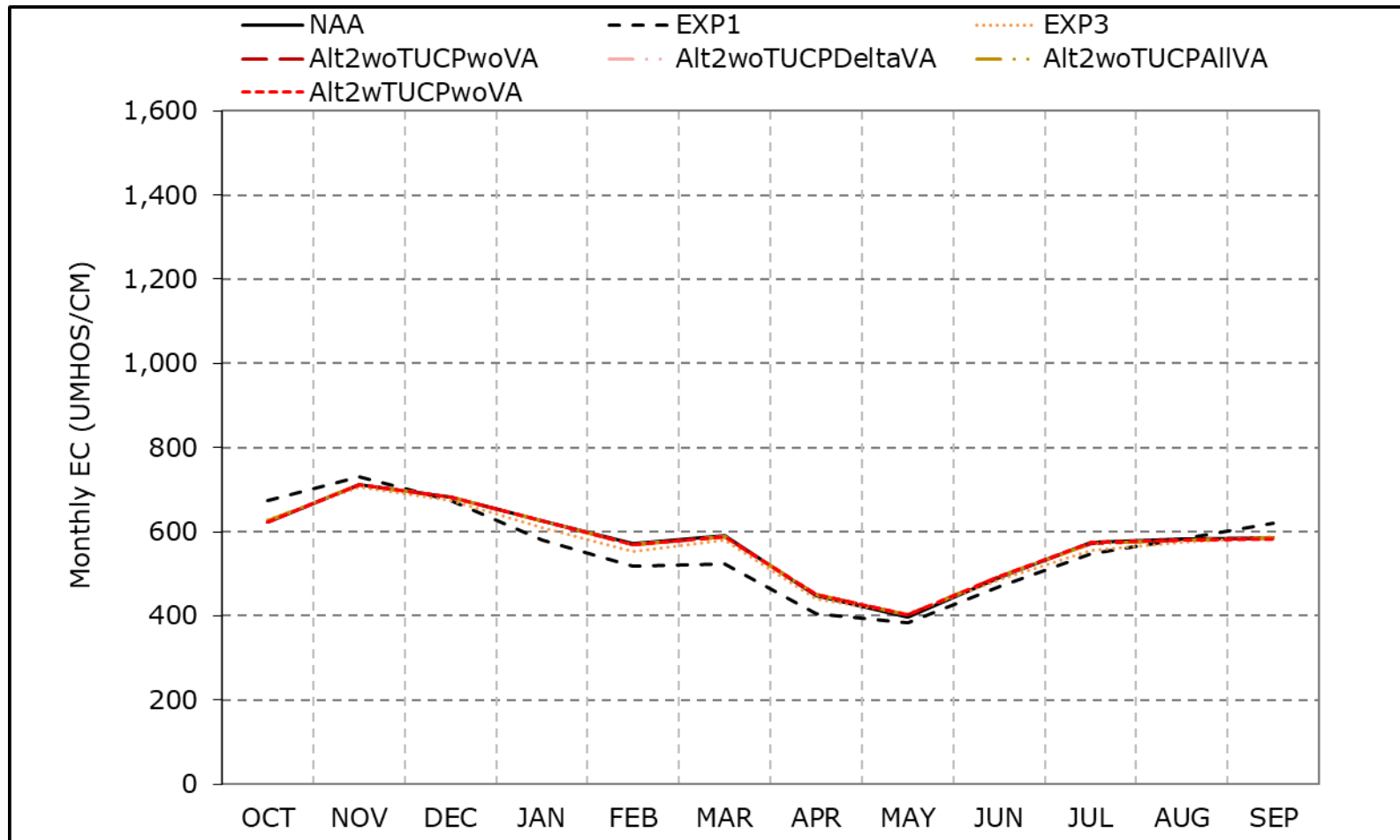
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

\* As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

**Figure F.2.5-7-1. San Joaquin River at Vernalis Salinity (60-20-20), Long-Term Average EC**

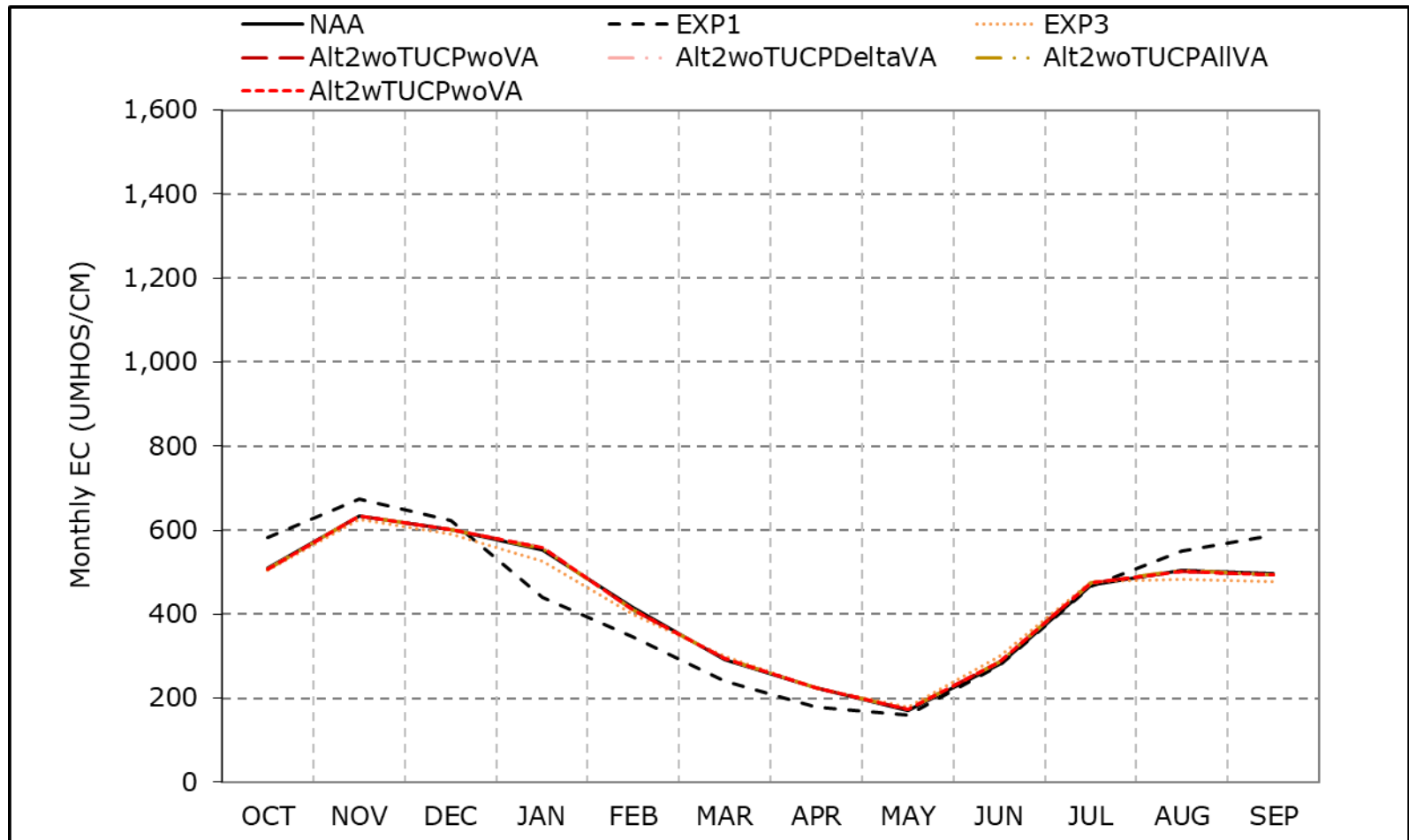


\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-2. San Joaquin River at Vernalis Salinity (60-20-20), Wet Year  
Average EC**

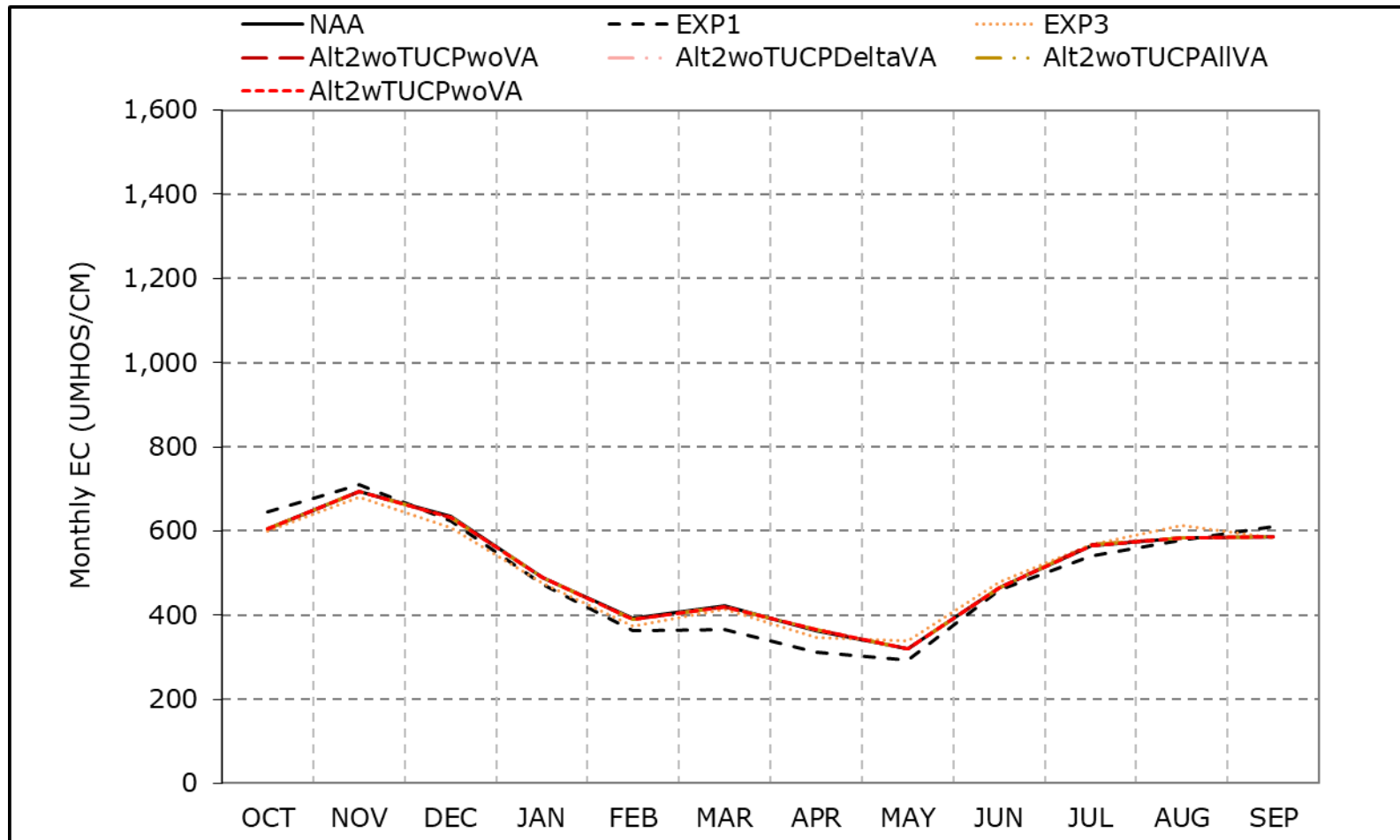


\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-3. San Joaquin River at Vernalis Salinity (60-20-20), Above Normal Year Average EC**

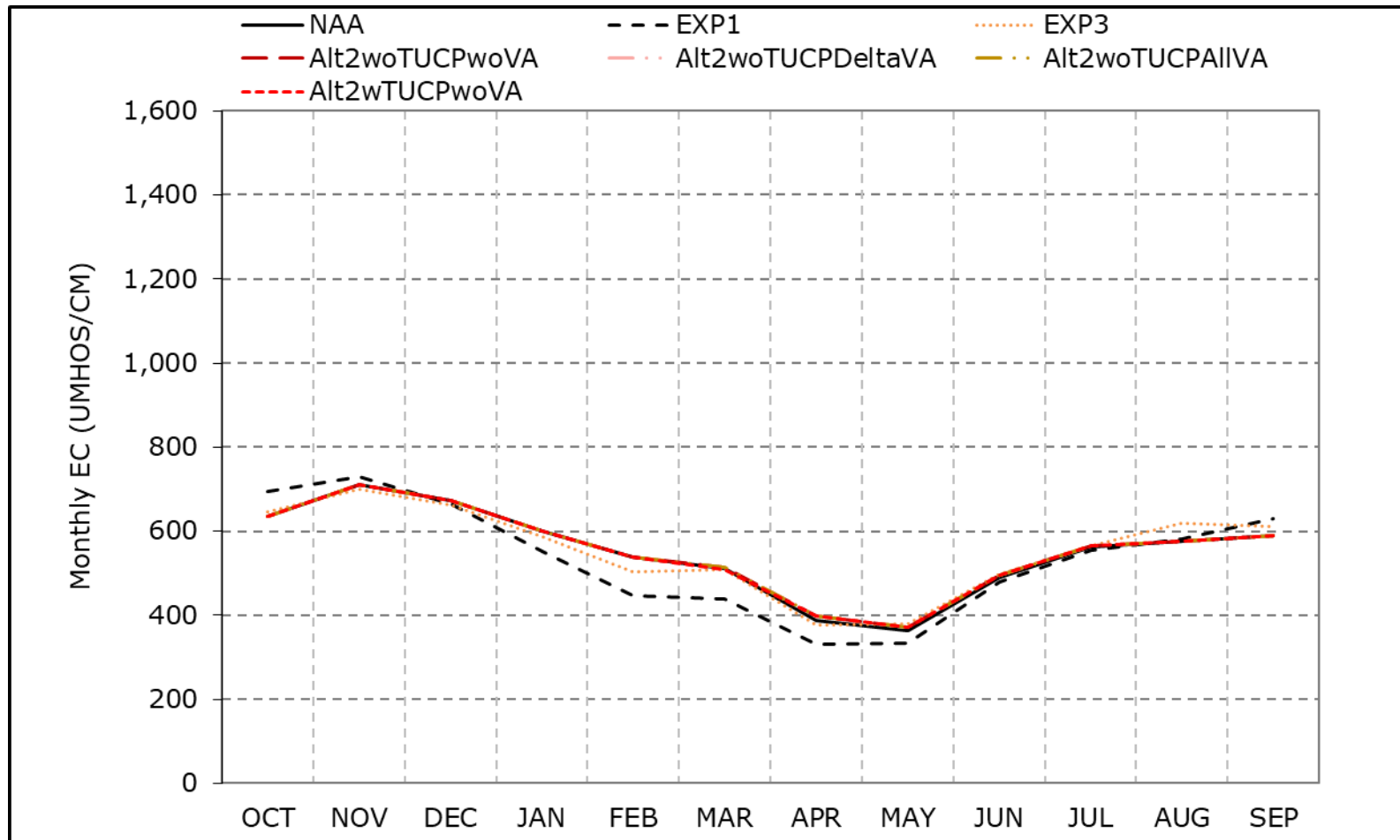


\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-4. San Joaquin River at Vernalis Salinity (60-20-20), Below Normal Year Average EC**



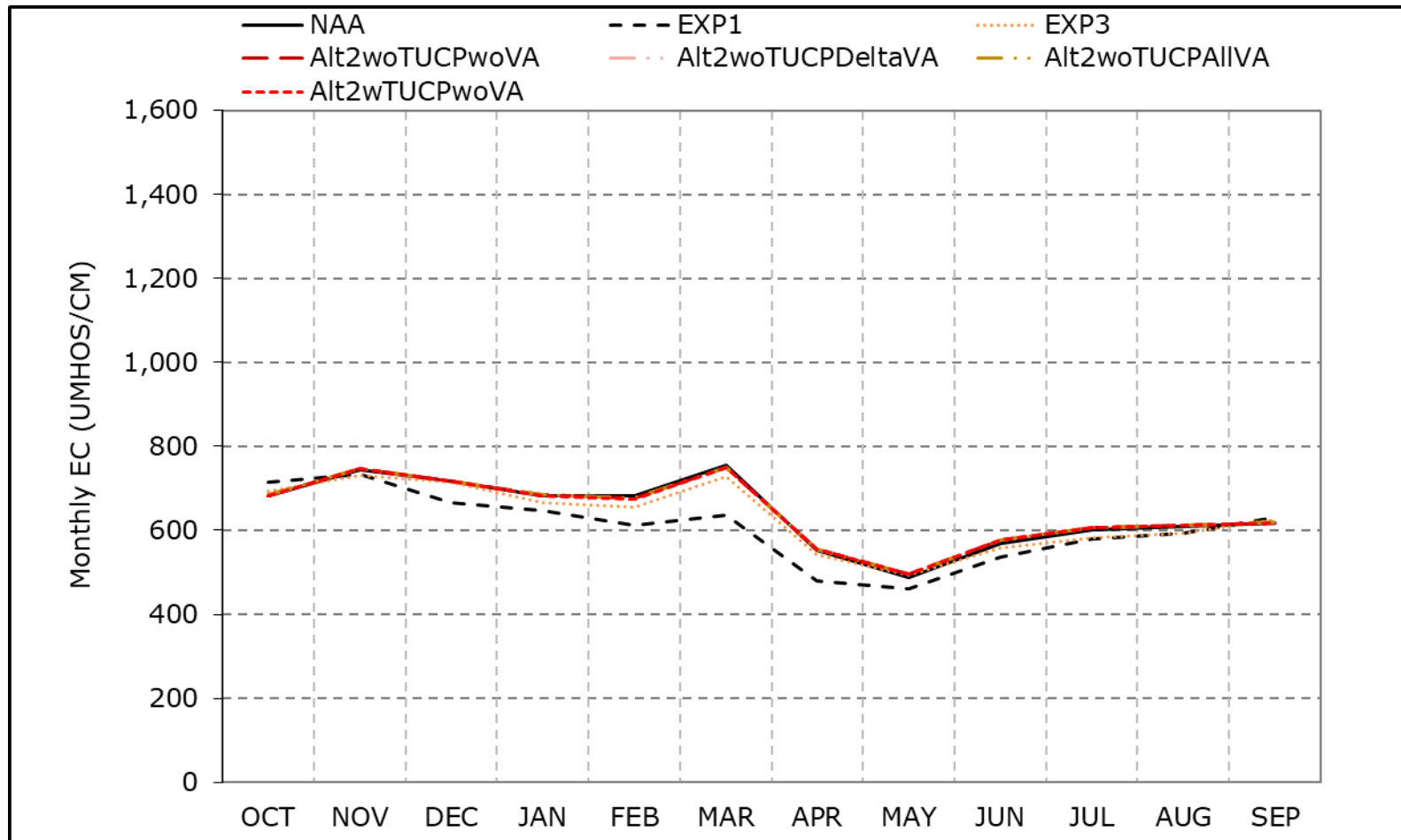
\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-7-5. San Joaquin River at Vernalis Salinity (60-20-20), Dry Year  
Average EC**

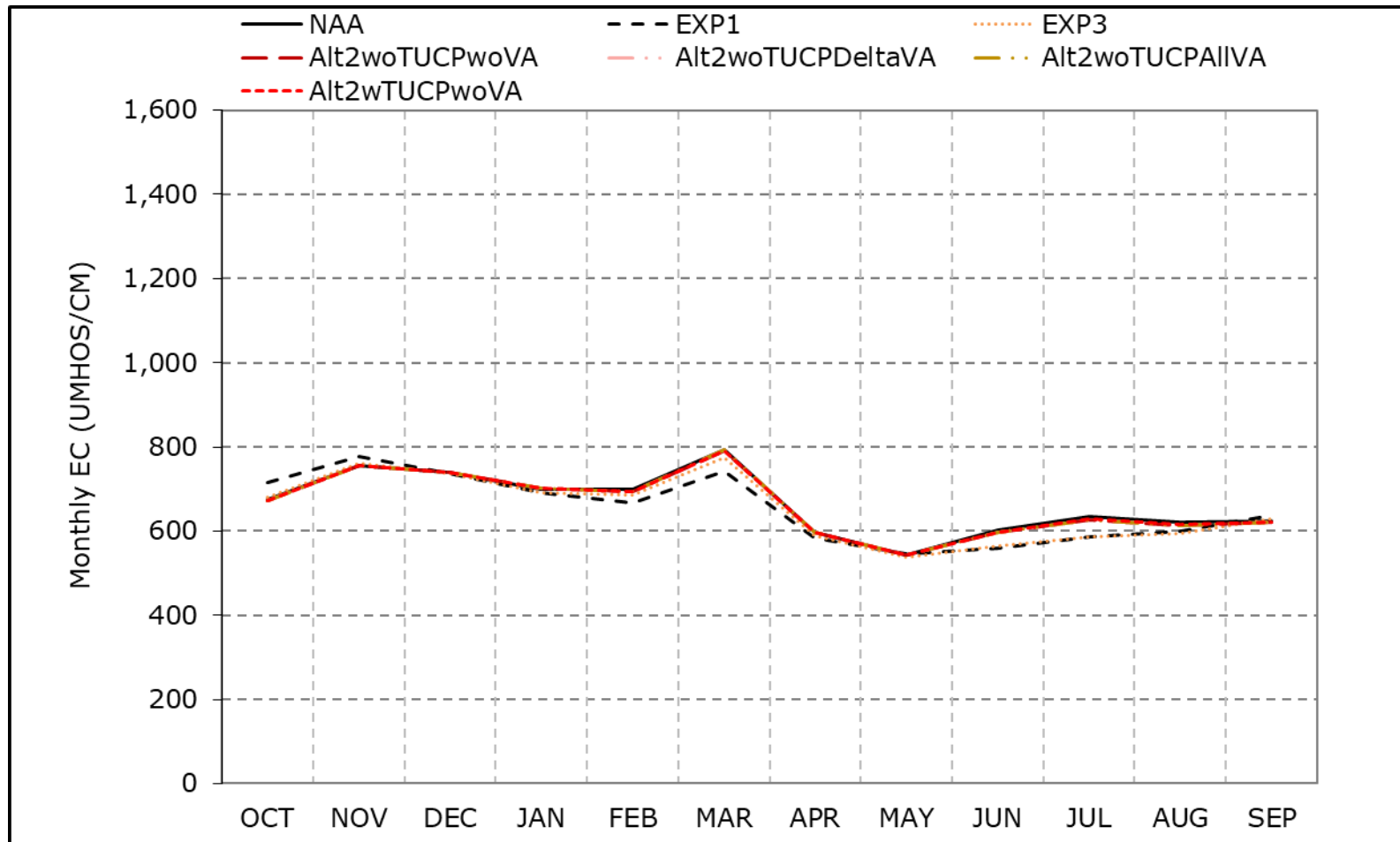


\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-6. San Joaquin River at Vernalis Salinity (60-20-20), Critical Year Average EC**

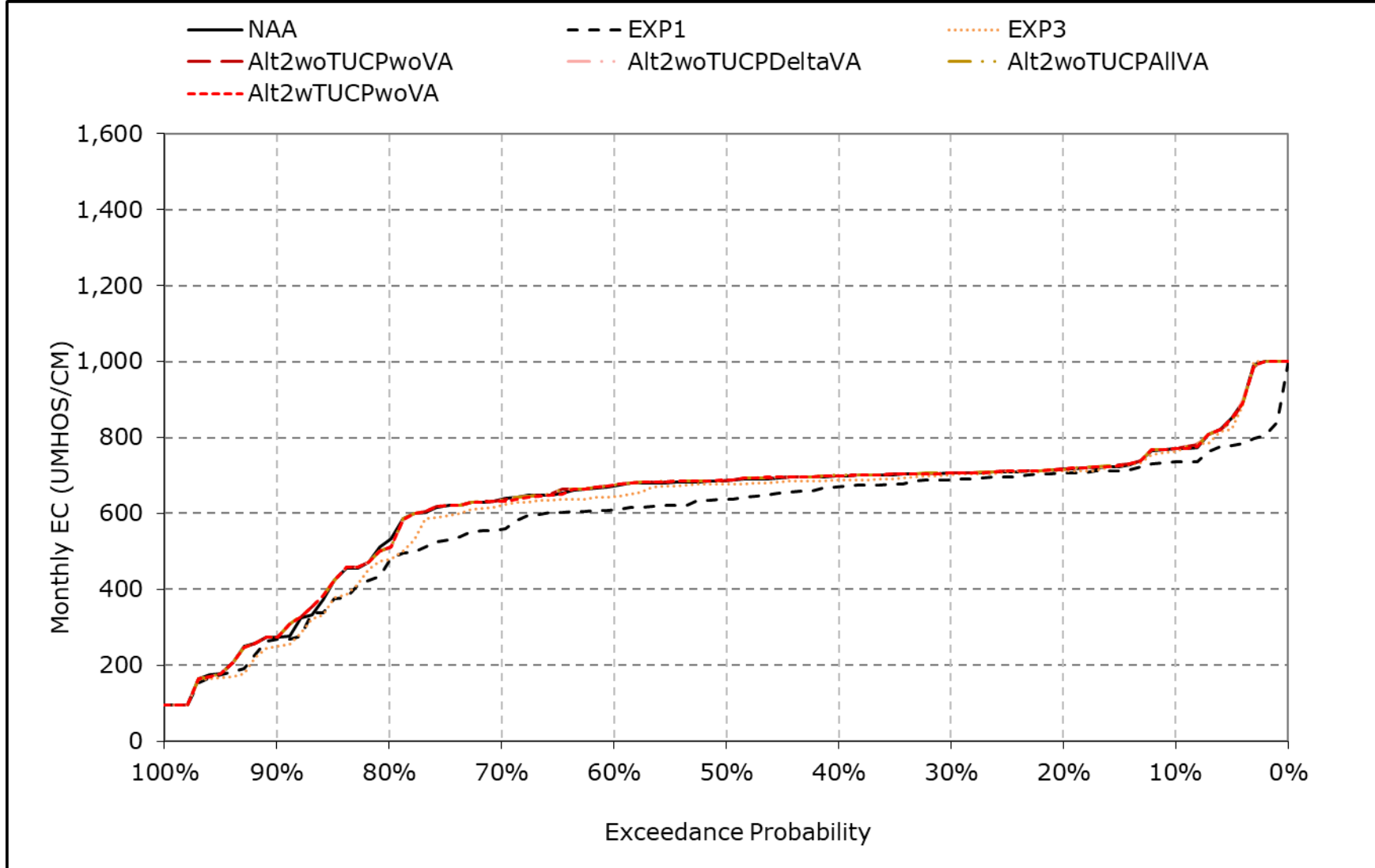


\*As defined by the San Joaquin Valley 60-20-20 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

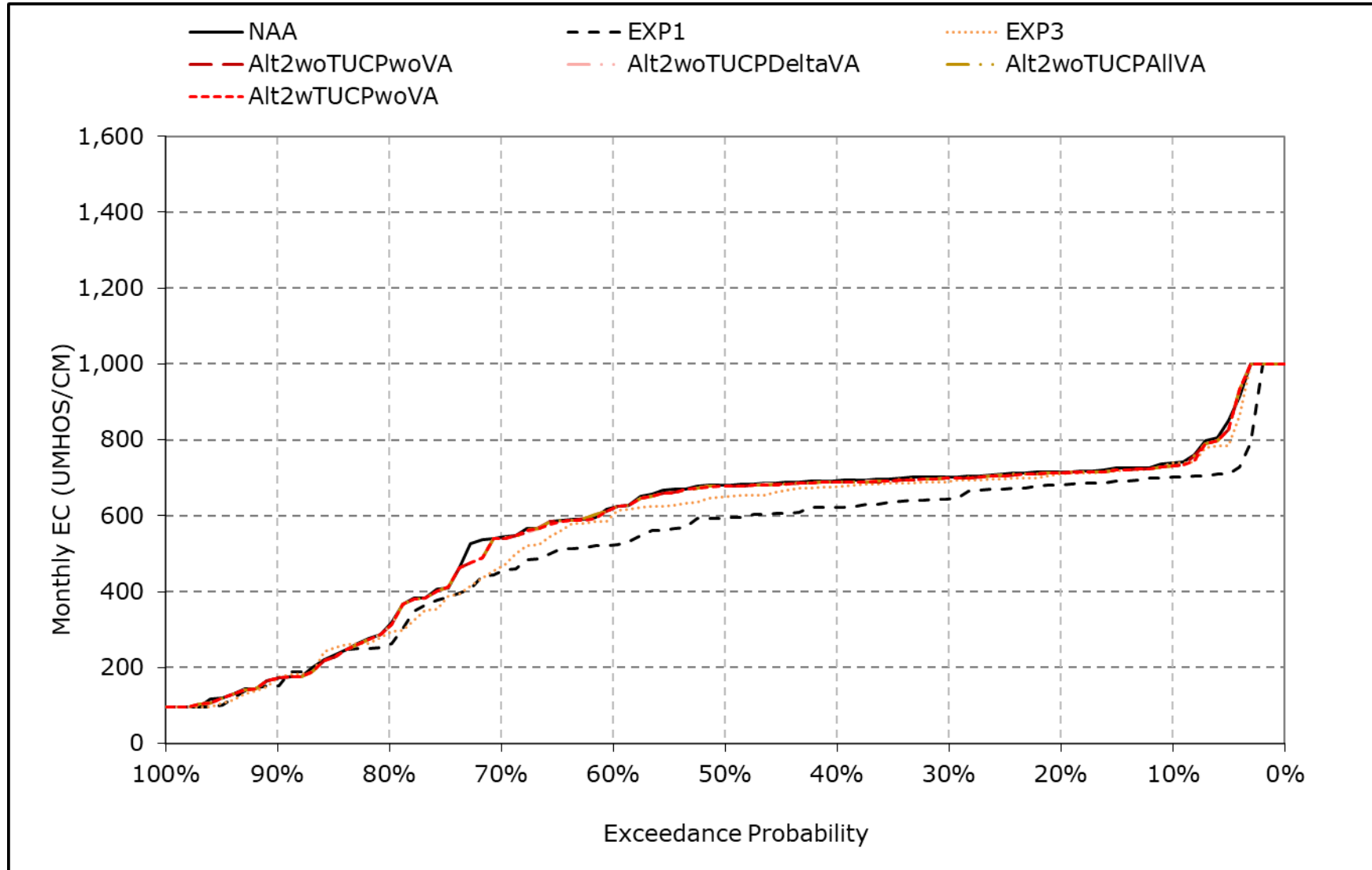
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-7. San Joaquin River at Vernalis Salinity (60-20-20), January EC**



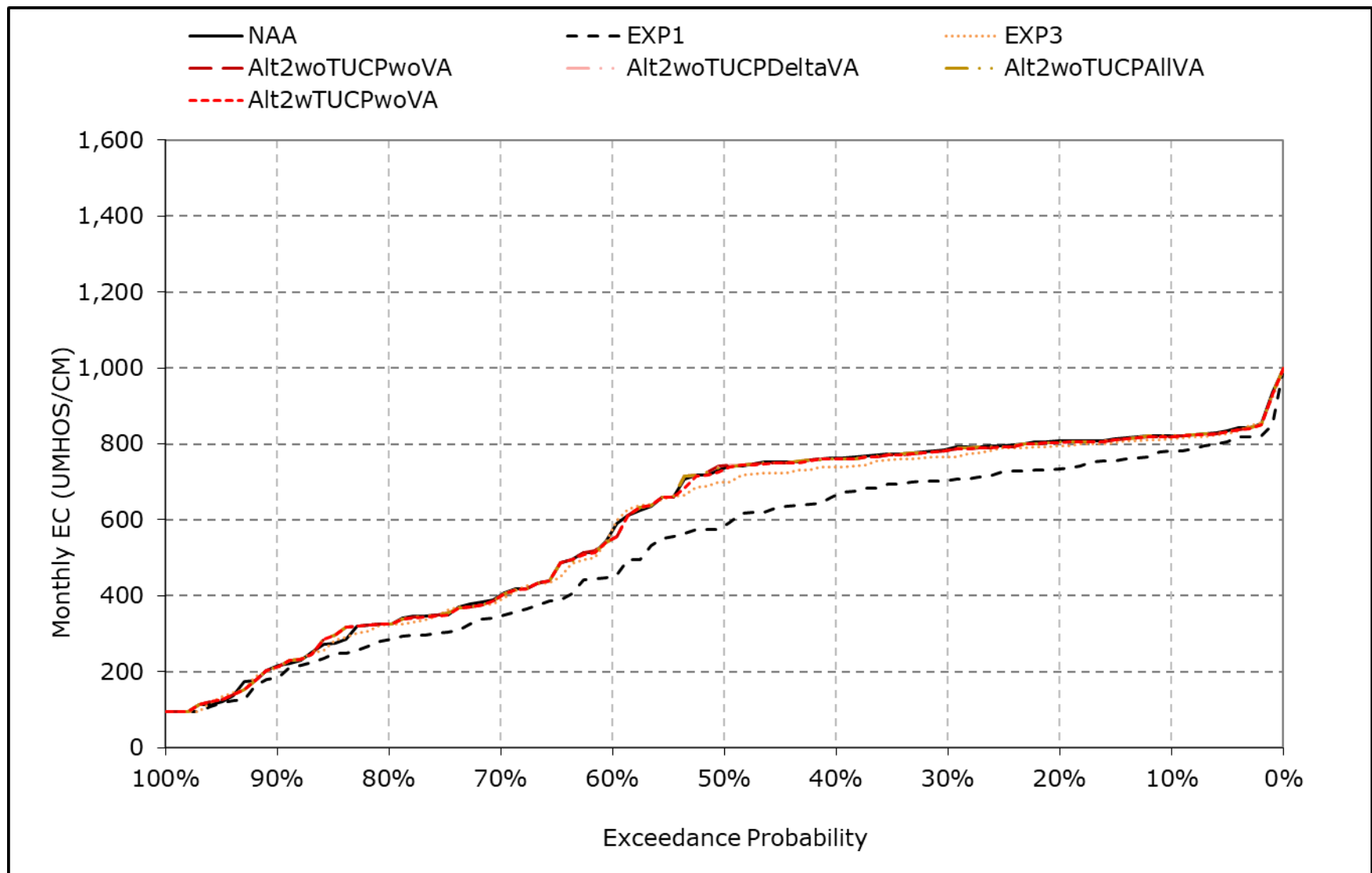
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-8. San Joaquin River at Vernalis Salinity (60-20-20), February EC**



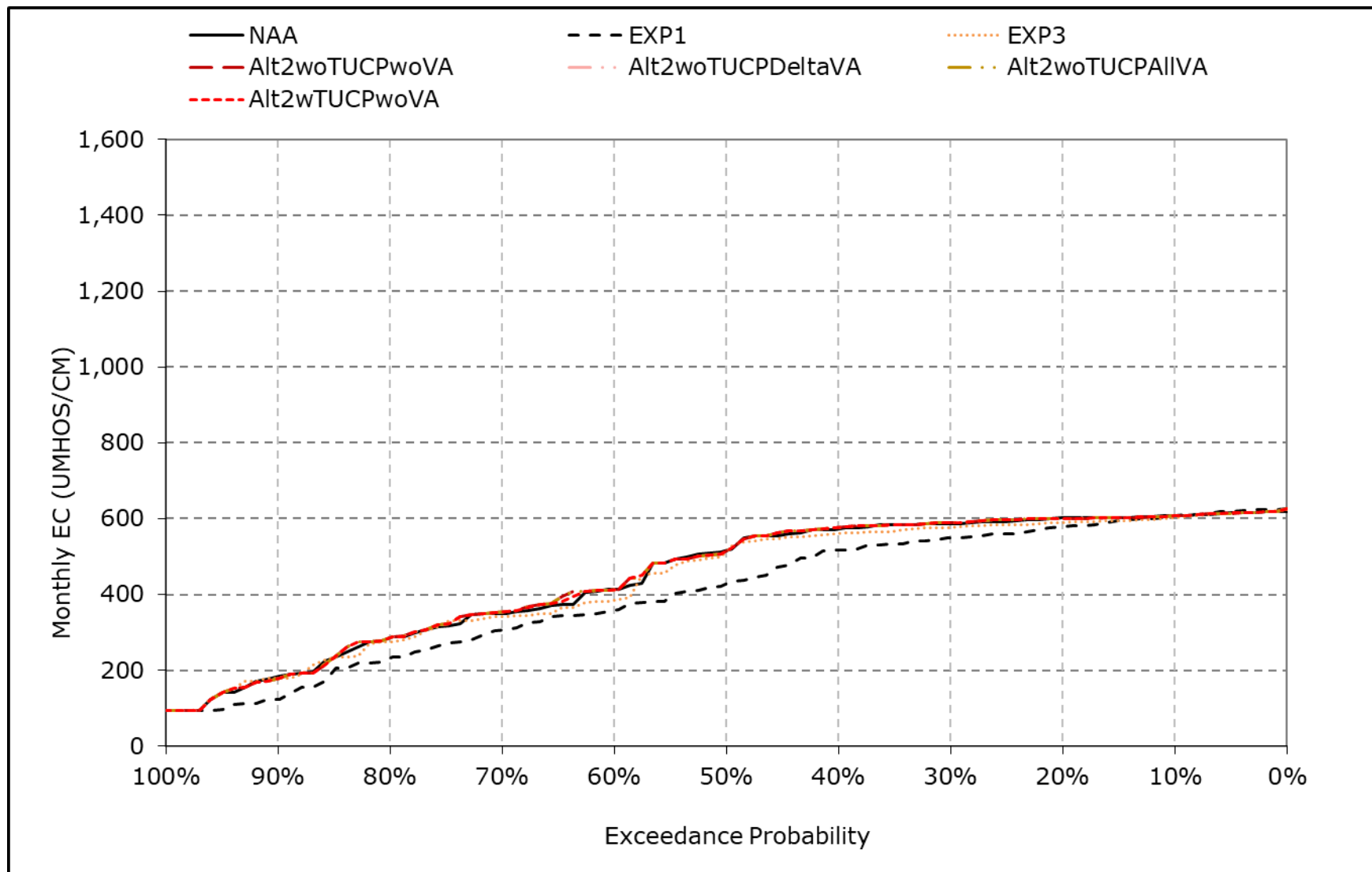
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-9. San Joaquin River at Vernalis Salinity (60-20-20), March EC**



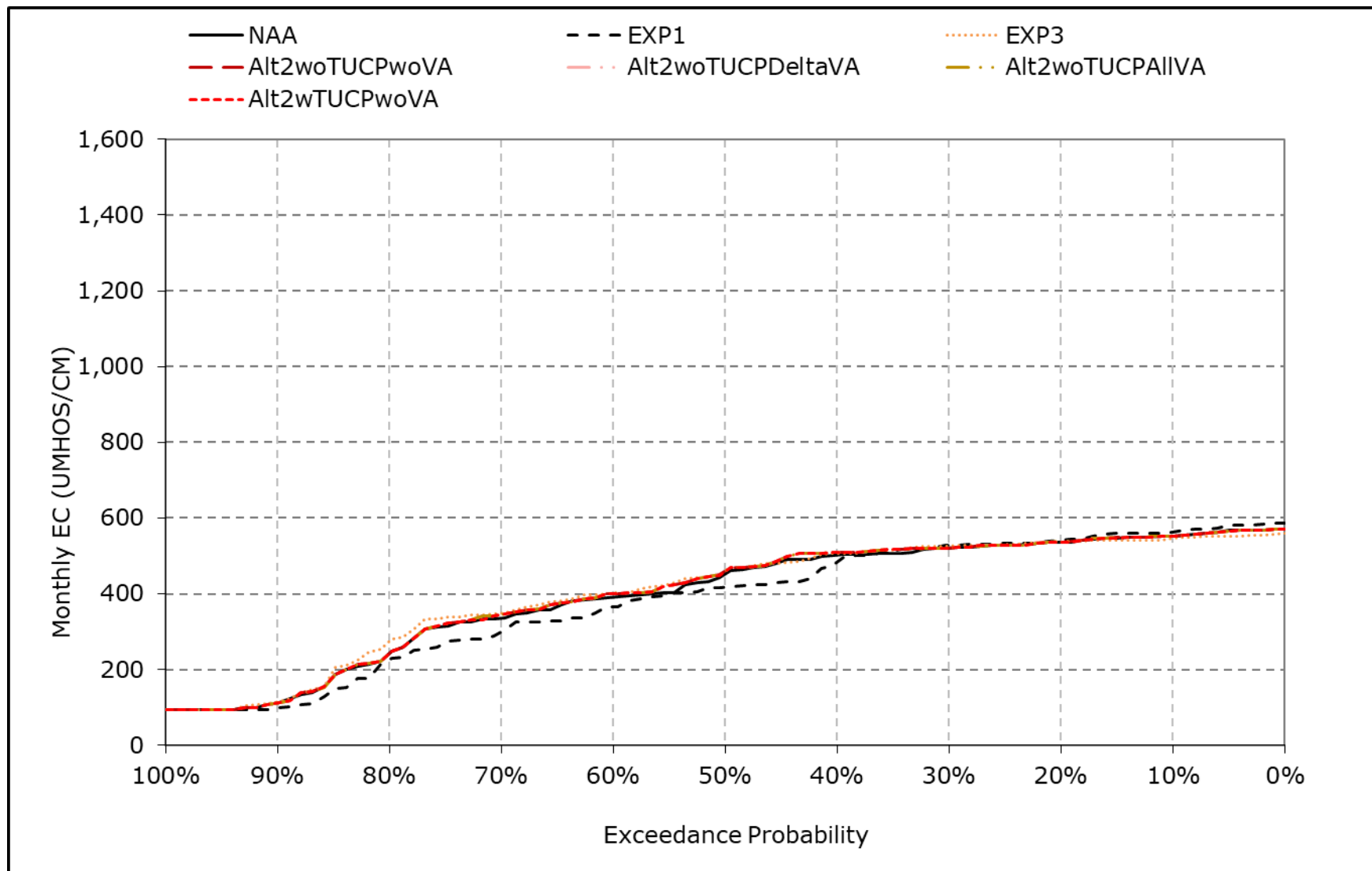
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-10. San Joaquin River at Vernalis Salinity (60-20-20), April EC**



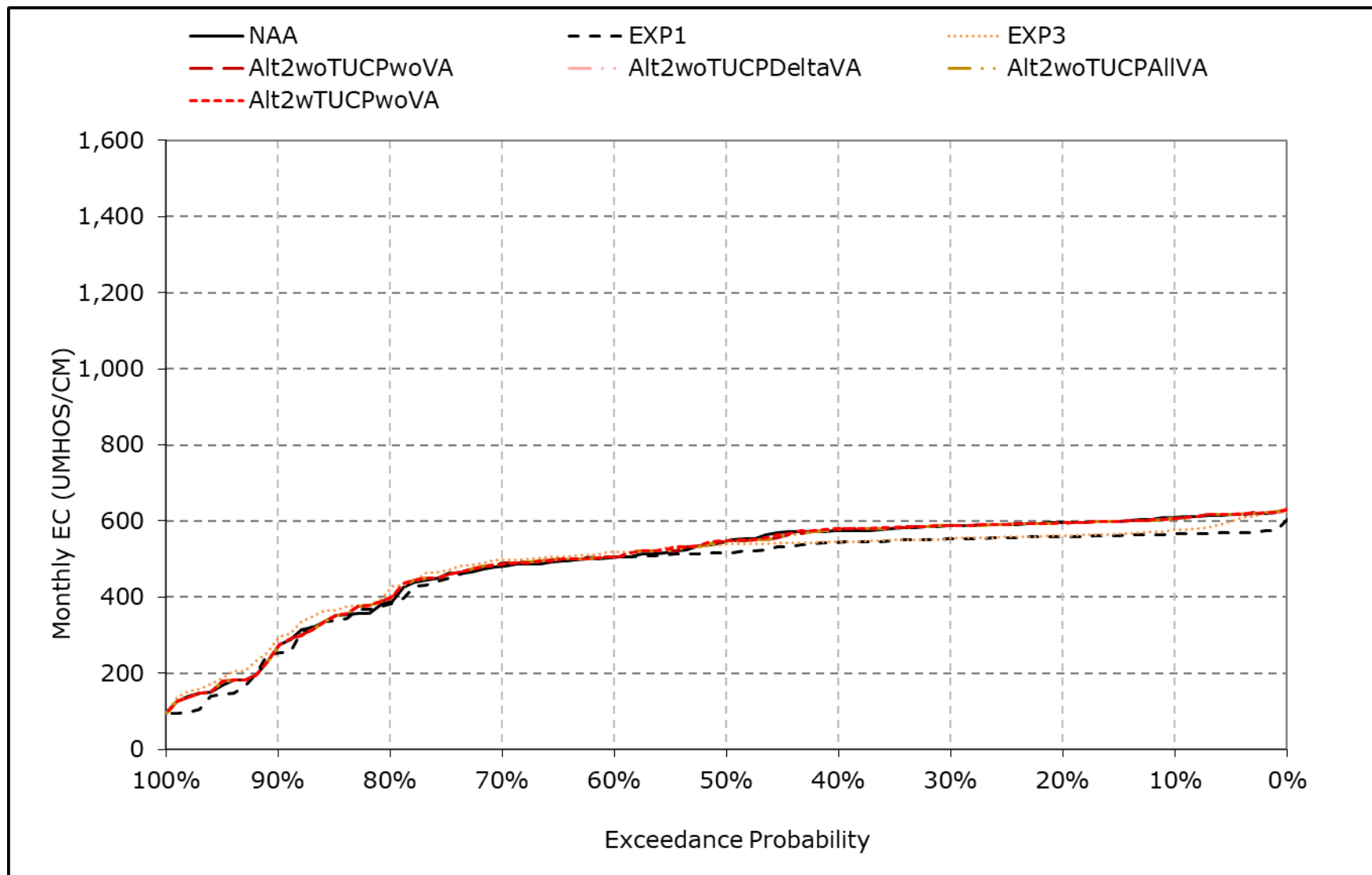
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-11. San Joaquin River at Vernalis Salinity (60-20-20), May EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

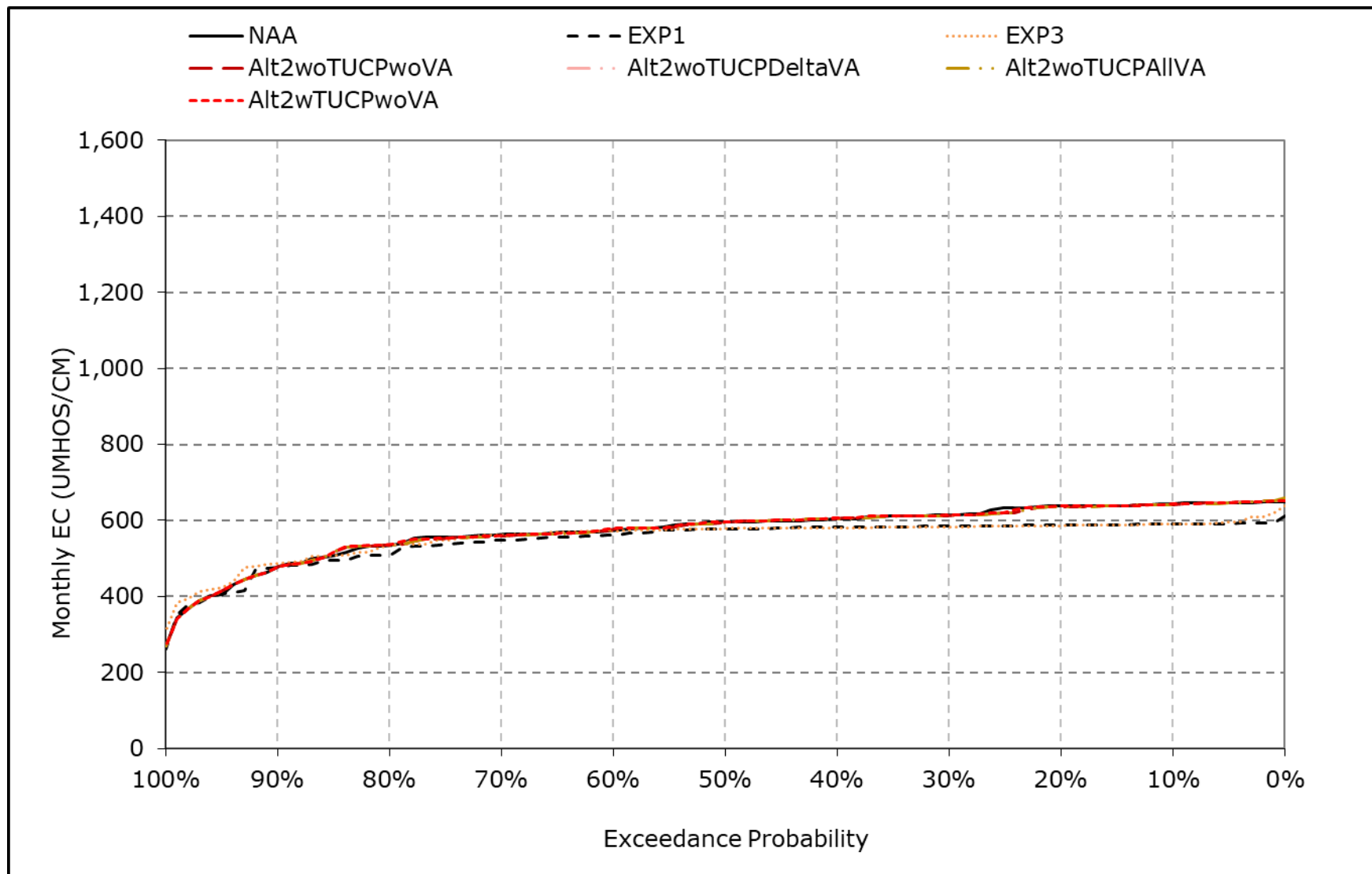
**Figure F.2.5-7-12. San Joaquin River at Vernalis Salinity (60-20-20), June EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

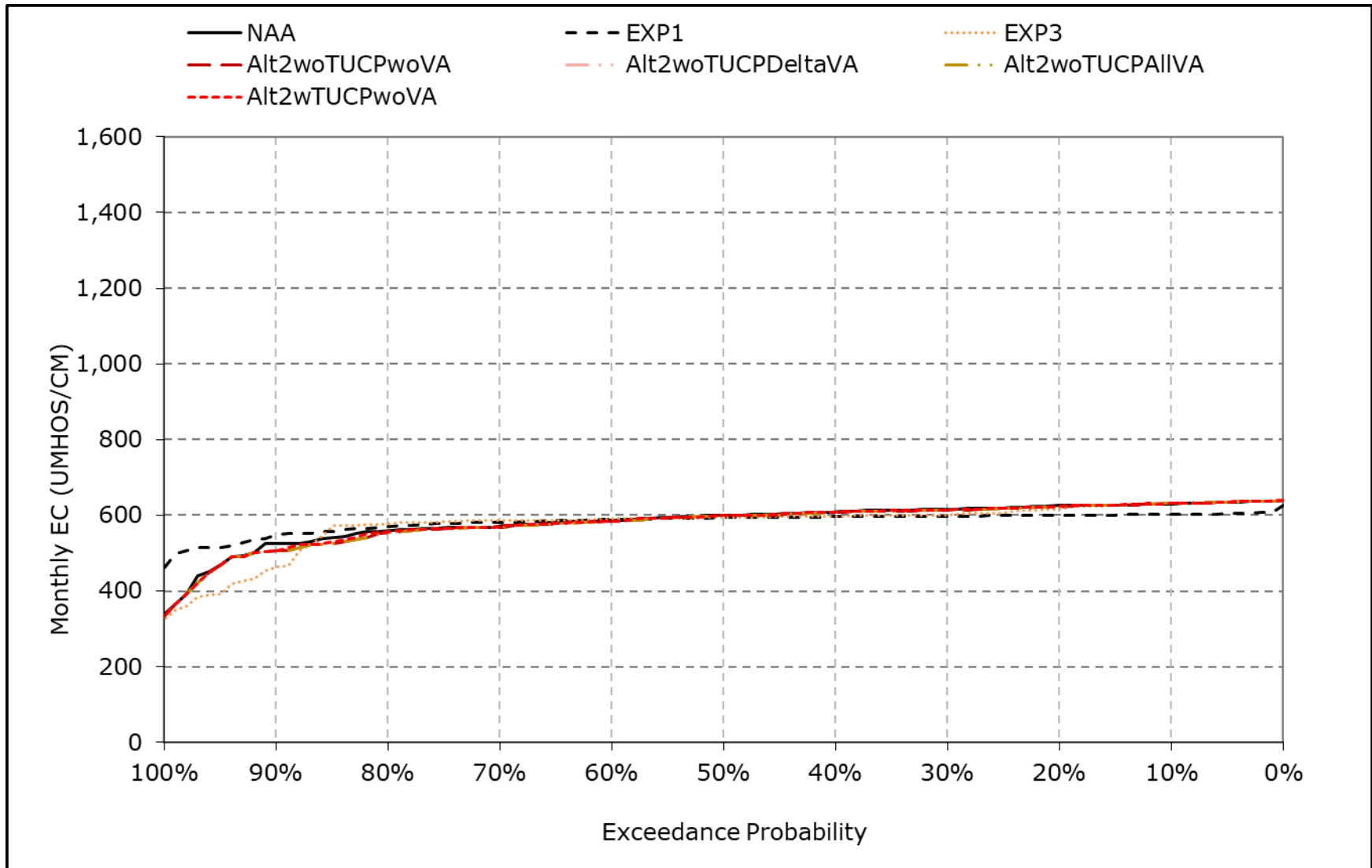


**Figure F.2.5-7-13. San Joaquin River at Vernalis Salinity (60-20-20), July EC**



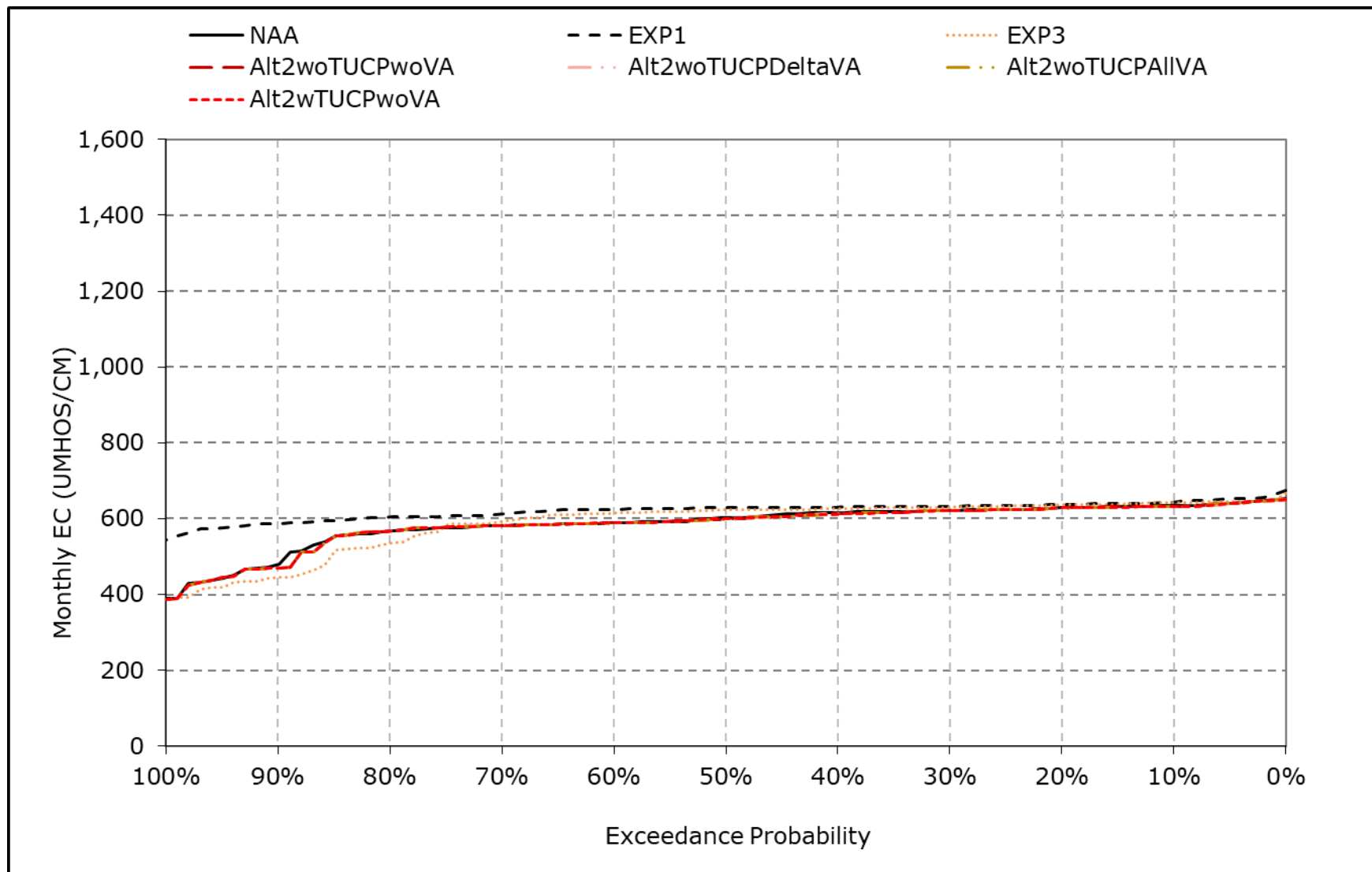
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-14. San Joaquin River at Vernalis Salinity (60-20-20), August EC**



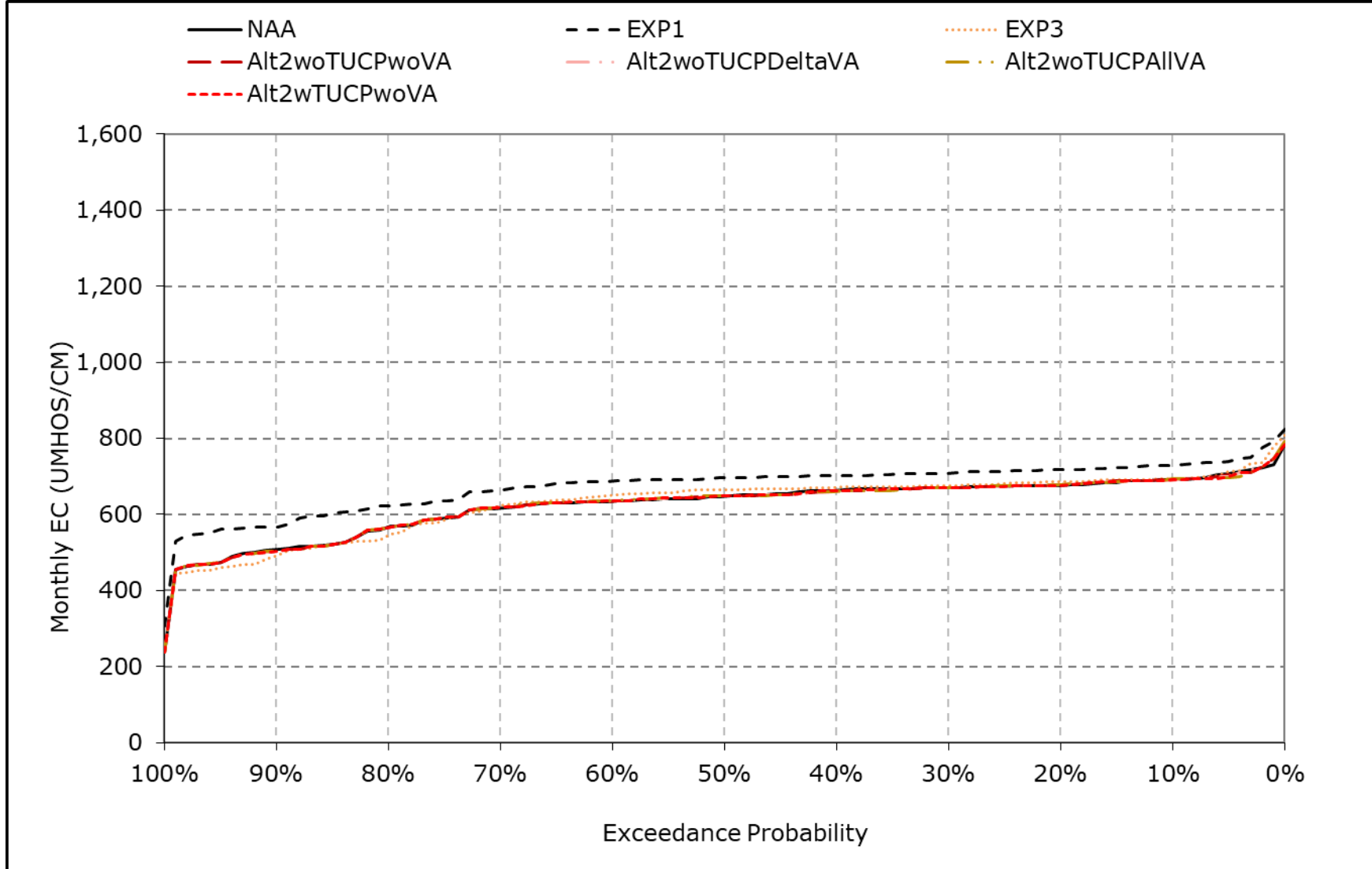
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-15. San Joaquin River at Vernalis Salinity (60-20-20), September EC**



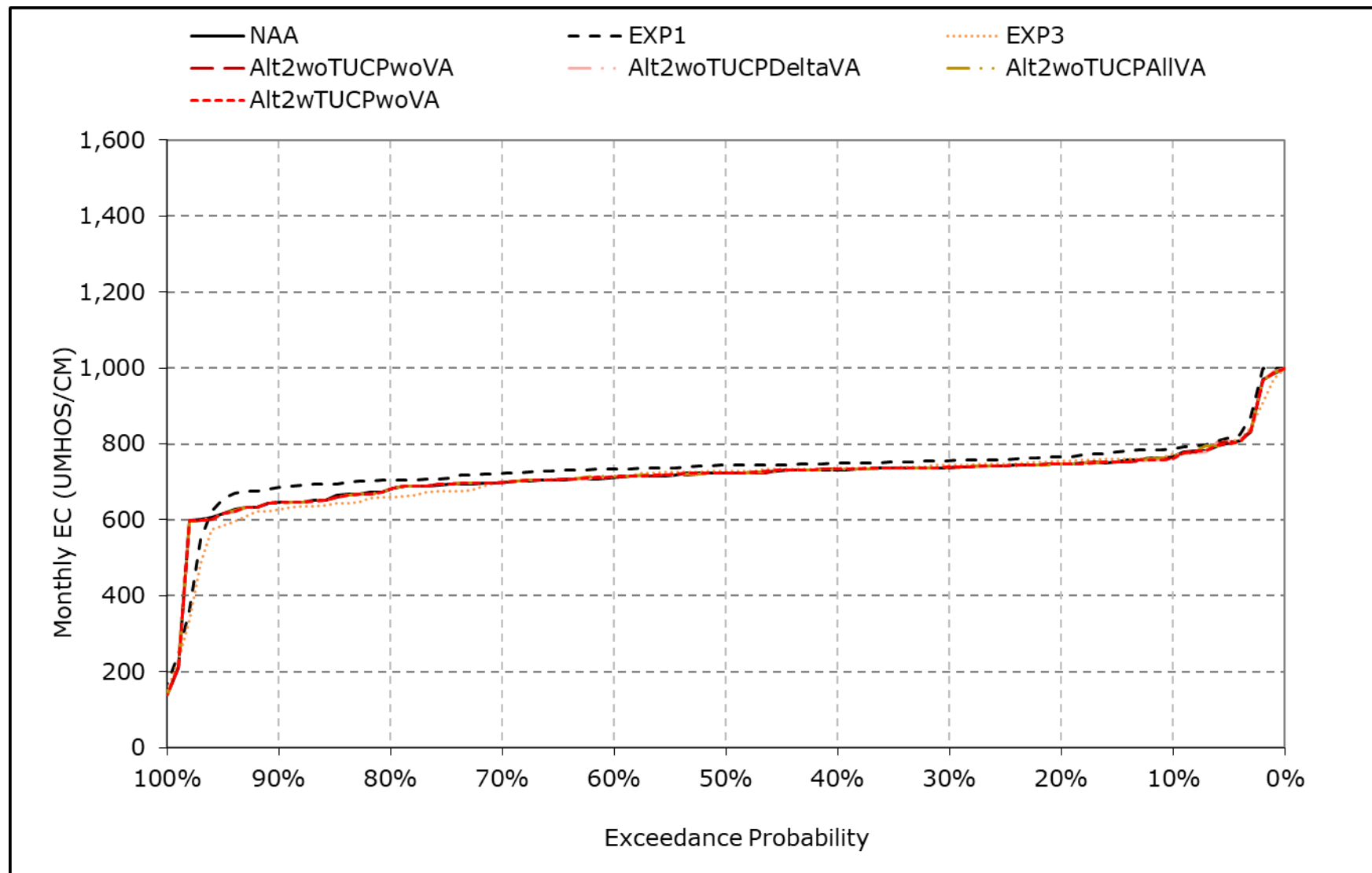
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-16. San Joaquin River at Vernalis Salinity (60-20-20), October EC**



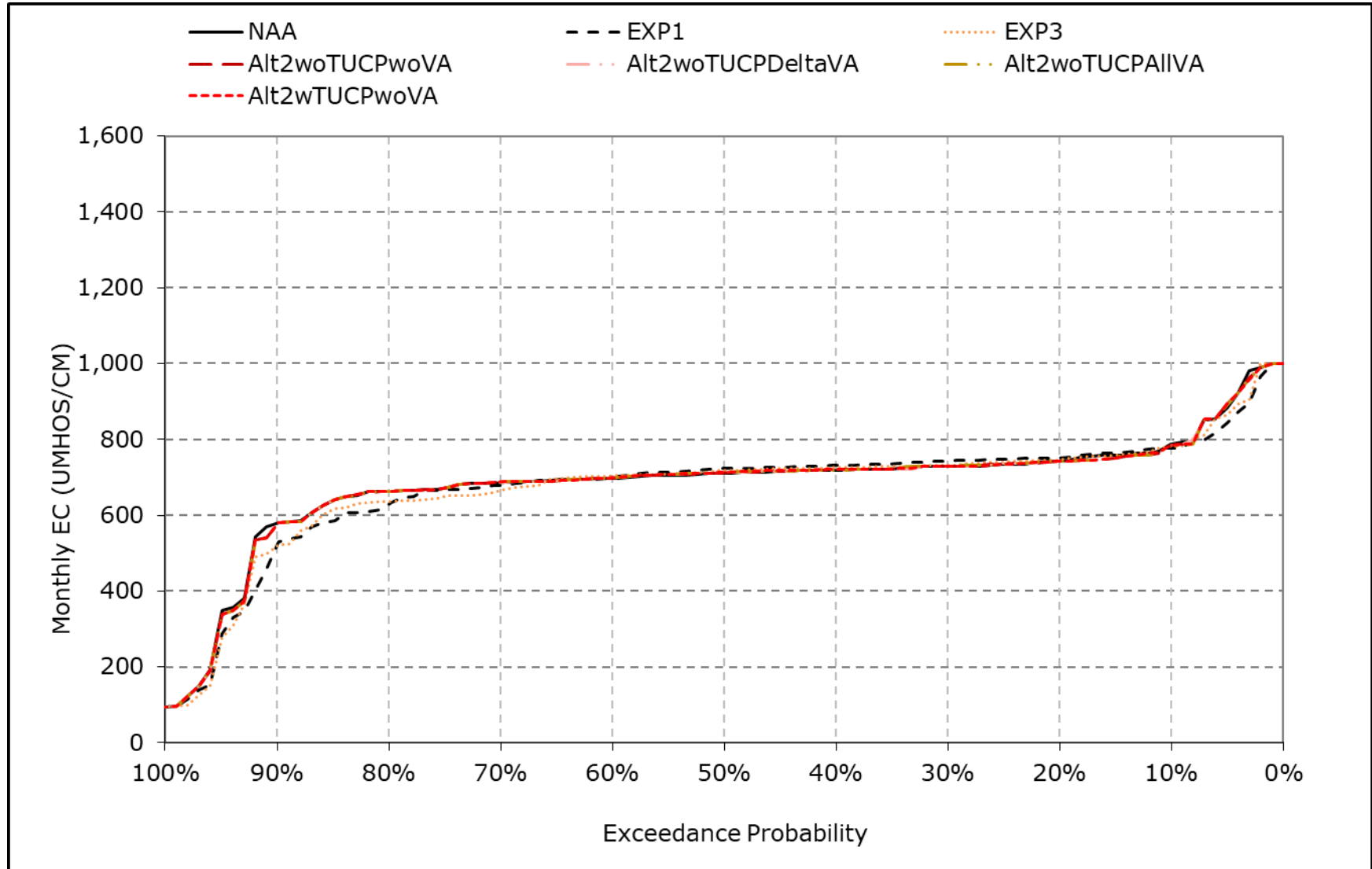
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-17. San Joaquin River at Vernalis Salinity (60-20-20), November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-7-18. San Joaquin River at Vernalis Salinity (60-20-20), December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-8-1a. San Joaquin River at Jersey Point Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,921 | 2,049 | 1,960 | 1,519 | 710 | 337 | 369 | 654 | 1,105 | 1,283 | 1,529 | 1,768 |
| 20% Exceedance                              | 1,793 | 1,900 | 1,759 | 1,143 | 469 | 282 | 285 | 308 | 424   | 914   | 1,305 | 1,729 |
| 30% Exceedance                              | 1,707 | 1,788 | 1,683 | 812   | 341 | 259 | 253 | 284 | 375   | 781   | 1,208 | 1,649 |
| 40% Exceedance                              | 1,650 | 1,720 | 1,409 | 529   | 272 | 244 | 242 | 268 | 343   | 681   | 1,097 | 1,588 |
| 50% Exceedance                              | 1,493 | 1,299 | 1,255 | 408   | 250 | 235 | 236 | 257 | 302   | 585   | 881   | 1,515 |
| 60% Exceedance                              | 354   | 949   | 787   | 290   | 238 | 225 | 231 | 235 | 286   | 449   | 750   | 587   |
| 70% Exceedance                              | 282   | 881   | 645   | 235   | 219 | 221 | 223 | 223 | 261   | 383   | 647   | 529   |
| 80% Exceedance                              | 266   | 791   | 479   | 217   | 209 | 213 | 216 | 217 | 225   | 347   | 583   | 463   |
| 90% Exceedance                              | 247   | 429   | 326   | 204   | 202 | 204 | 200 | 181 | 188   | 263   | 531   | 413   |
| Full Simulation Period Average <sup>a</sup> | 1,093 | 1,315 | 1,140 | 631   | 351 | 261 | 276 | 342 | 425   | 673   | 959   | 1,156 |
| Wet Water Years (28%)                       | 280   | 714   | 1,025 | 240   | 210 | 207 | 205 | 199 | 220   | 322   | 566   | 464   |
| Above Normal Years (14%)                    | 264   | 787   | 1,168 | 461   | 248 | 221 | 233 | 239 | 261   | 367   | 620   | 458   |
| Below Normal Years (18%)                    | 1,539 | 1,680 | 995   | 593   | 306 | 242 | 243 | 255 | 337   | 637   | 1,091 | 1,654 |
| Dry Water Years (24%)                       | 1,678 | 1,629 | 1,059 | 915   | 429 | 274 | 256 | 281 | 362   | 802   | 1,113 | 1,662 |
| Critical Water Years (16%)                  | 1,966 | 2,025 | 1,630 | 1,084 | 620 | 391 | 503 | 872 | 1,120 | 1,402 | 1,565 | 1,660 |

**Table F.2.5-8-1b. San Joaquin River at Jersey Point Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 2,031 | 1,956 | 1,976 | 1,396 | 598 | 333 | 343 | 429 | 545 | 1,052 | 1,333 | 1,779 |
| 20% Exceedance                              | 1,895 | 1,817 | 1,775 | 963   | 399 | 268 | 267 | 330 | 413 | 846   | 1,214 | 1,722 |
| 30% Exceedance                              | 1,723 | 1,742 | 1,563 | 794   | 332 | 257 | 250 | 311 | 383 | 732   | 1,142 | 1,681 |
| 40% Exceedance                              | 1,648 | 1,680 | 1,401 | 525   | 270 | 244 | 241 | 284 | 338 | 656   | 1,048 | 1,630 |
| 50% Exceedance                              | 1,419 | 1,226 | 1,184 | 381   | 251 | 234 | 233 | 252 | 299 | 561   | 932   | 1,534 |
| 60% Exceedance                              | 357   | 974   | 782   | 282   | 238 | 225 | 228 | 232 | 281 | 442   | 797   | 663   |
| 70% Exceedance                              | 282   | 876   | 628   | 231   | 218 | 221 | 220 | 220 | 258 | 400   | 682   | 563   |
| 80% Exceedance                              | 267   | 770   | 467   | 216   | 209 | 213 | 213 | 211 | 218 | 359   | 618   | 472   |
| 90% Exceedance                              | 242   | 386   | 300   | 203   | 202 | 202 | 196 | 182 | 188 | 254   | 559   | 413   |
| Full Simulation Period Average <sup>a</sup> | 1,118 | 1,271 | 1,124 | 617   | 339 | 255 | 252 | 298 | 374 | 609   | 924   | 1,182 |
| Wet Water Years (28%)                       | 283   | 710   | 1,019 | 232   | 210 | 206 | 203 | 200 | 220 | 328   | 597   | 487   |
| Above Normal Years (14%)                    | 261   | 760   | 1,158 | 456   | 248 | 222 | 227 | 236 | 255 | 376   | 682   | 491   |
| Below Normal Years (18%)                    | 1,524 | 1,627 | 963   | 610   | 301 | 242 | 241 | 266 | 336 | 645   | 1,071 | 1,654 |
| Dry Water Years (24%)                       | 1,697 | 1,640 | 1,067 | 852   | 391 | 269 | 256 | 290 | 364 | 794   | 1,145 | 1,695 |
| Critical Water Years (16%)                  | 2,117 | 1,812 | 1,572 | 1,085 | 611 | 364 | 370 | 572 | 802 | 985   | 1,211 | 1,699 |

**Table F.2.5-8-1c. San Joaquin River at Jersey Point Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec  | Jan  | Feb  | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|------|------|------|------|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | 110 | -93  | 16   | -123 | -111 | -4  | -26  | -225 | -560 | -231 | -196 | 11  |
| 20% Exceedance                              | 101 | -82  | 17   | -180 | -70  | -14 | -18  | 22   | -12  | -68  | -91  | -8  |
| 30% Exceedance                              | 16  | -46  | -120 | -18  | -8   | -3  | -3   | 27   | 8    | -49  | -66  | 32  |
| 40% Exceedance                              | -1  | -40  | -8   | -3   | -2   | 0   | -1   | 15   | -4   | -25  | -49  | 42  |
| 50% Exceedance                              | -75 | -74  | -71  | -27  | 1    | -1  | -3   | -6   | -3   | -24  | 51   | 19  |
| 60% Exceedance                              | 3   | 25   | -4   | -9   | 0    | 0   | -3   | -3   | -5   | -7   | 48   | 76  |
| 70% Exceedance                              | -1  | -5   | -17  | -4   | -1   | 0   | -3   | -3   | -3   | 18   | 35   | 34  |
| 80% Exceedance                              | 0   | -21  | -11  | 0    | -1   | 0   | -3   | -6   | -6   | 12   | 36   | 9   |
| 90% Exceedance                              | -5  | -42  | -26  | -1   | 0    | -2  | -4   | 1    | 0    | -10  | 28   | 1   |
| Full Simulation Period Average <sup>a</sup> | 25  | -44  | -16  | -15  | -12  | -6  | -23  | -44  | -51  | -64  | -35  | 25  |
| Wet Water Years (28%)                       | 3   | -5   | -6   | -8   | 0    | -1  | -2   | 1    | -1   | 6    | 32   | 23  |
| Above Normal Years (14%)                    | -3  | -27  | -10  | -5   | 1    | 1   | -6   | -3   | -5   | 9    | 62   | 33  |
| Below Normal Years (18%)                    | -15 | -53  | -32  | 16   | -5   | -1  | -3   | 11   | -1   | 8    | -20  | 0   |
| Dry Water Years (24%)                       | 19  | 11   | 8    | -63  | -38  | -5  | 1    | 9    | 2    | -8   | 32   | 33  |
| Critical Water Years (16%)                  | 151 | -213 | -58  | 2    | -9   | -28 | -134 | -300 | -318 | -417 | -354 | 40  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-8-2a. San Joaquin River at Jersey Point Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,921 | 2,049 | 1,960 | 1,519 | 710 | 337 | 369 | 654 | 1,105 | 1,283 | 1,529 | 1,768 |
| 20% Exceedance                              | 1,793 | 1,900 | 1,759 | 1,143 | 469 | 282 | 285 | 308 | 424   | 914   | 1,305 | 1,729 |
| 30% Exceedance                              | 1,707 | 1,788 | 1,683 | 812   | 341 | 259 | 253 | 284 | 375   | 781   | 1,208 | 1,649 |
| 40% Exceedance                              | 1,650 | 1,720 | 1,409 | 529   | 272 | 244 | 242 | 268 | 343   | 681   | 1,097 | 1,588 |
| 50% Exceedance                              | 1,493 | 1,299 | 1,255 | 408   | 250 | 235 | 236 | 257 | 302   | 585   | 881   | 1,515 |
| 60% Exceedance                              | 354   | 949   | 787   | 290   | 238 | 225 | 231 | 235 | 286   | 449   | 750   | 587   |
| 70% Exceedance                              | 282   | 881   | 645   | 235   | 219 | 221 | 223 | 223 | 261   | 383   | 647   | 529   |
| 80% Exceedance                              | 266   | 791   | 479   | 217   | 209 | 213 | 216 | 217 | 225   | 347   | 583   | 463   |
| 90% Exceedance                              | 247   | 429   | 326   | 204   | 202 | 204 | 200 | 181 | 188   | 263   | 531   | 413   |
| Full Simulation Period Average <sup>a</sup> | 1,093 | 1,315 | 1,140 | 631   | 351 | 261 | 276 | 342 | 425   | 673   | 959   | 1,156 |
| Wet Water Years (28%)                       | 280   | 714   | 1,025 | 240   | 210 | 207 | 205 | 199 | 220   | 322   | 566   | 464   |
| Above Normal Years (14%)                    | 264   | 787   | 1,168 | 461   | 248 | 221 | 233 | 239 | 261   | 367   | 620   | 458   |
| Below Normal Years (18%)                    | 1,539 | 1,680 | 995   | 593   | 306 | 242 | 243 | 255 | 337   | 637   | 1,091 | 1,654 |
| Dry Water Years (24%)                       | 1,678 | 1,629 | 1,059 | 915   | 429 | 274 | 256 | 281 | 362   | 802   | 1,113 | 1,662 |
| Critical Water Years (16%)                  | 1,966 | 2,025 | 1,630 | 1,084 | 620 | 391 | 503 | 872 | 1,120 | 1,402 | 1,565 | 1,660 |

**Table F.2.5-8-2b. San Joaquin River at Jersey Point Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 2,048 | 1,973 | 1,954 | 1,429 | 648 | 303 | 314 | 435 | 539 | 1,056 | 1,351 | 1,796 |
| 20% Exceedance                              | 1,884 | 1,805 | 1,737 | 974   | 411 | 270 | 281 | 332 | 418 | 888   | 1,248 | 1,741 |
| 30% Exceedance                              | 1,711 | 1,758 | 1,574 | 772   | 330 | 258 | 262 | 315 | 393 | 725   | 1,204 | 1,709 |
| 40% Exceedance                              | 1,649 | 1,668 | 1,390 | 542   | 270 | 249 | 254 | 288 | 336 | 658   | 1,078 | 1,645 |
| 50% Exceedance                              | 1,430 | 1,255 | 1,217 | 390   | 252 | 240 | 243 | 259 | 302 | 590   | 968   | 1,581 |
| 60% Exceedance                              | 359   | 980   | 780   | 282   | 237 | 231 | 235 | 241 | 280 | 453   | 785   | 665   |
| 70% Exceedance                              | 281   | 894   | 606   | 233   | 218 | 226 | 229 | 225 | 264 | 395   | 678   | 559   |
| 80% Exceedance                              | 265   | 821   | 478   | 216   | 209 | 215 | 218 | 215 | 219 | 350   | 613   | 474   |
| 90% Exceedance                              | 243   | 391   | 302   | 203   | 202 | 202 | 197 | 183 | 188 | 254   | 551   | 421   |
| Full Simulation Period Average <sup>a</sup> | 1,128 | 1,281 | 1,122 | 622   | 352 | 259 | 258 | 301 | 376 | 618   | 947   | 1,197 |
| Wet Water Years (28%)                       | 284   | 722   | 1,005 | 234   | 210 | 207 | 206 | 202 | 221 | 324   | 592   | 488   |
| Above Normal Years (14%)                    | 262   | 777   | 1,145 | 457   | 248 | 228 | 243 | 244 | 259 | 386   | 667   | 493   |
| Below Normal Years (18%)                    | 1,544 | 1,637 | 989   | 616   | 305 | 248 | 252 | 272 | 341 | 642   | 1,106 | 1,670 |
| Dry Water Years (24%)                       | 1,696 | 1,632 | 1,048 | 849   | 396 | 264 | 256 | 291 | 366 | 818   | 1,210 | 1,721 |
| Critical Water Years (16%)                  | 2,160 | 1,839 | 1,592 | 1,113 | 675 | 381 | 372 | 573 | 802 | 1,011 | 1,241 | 1,738 |

**Table F.2.5-8-2c. San Joaquin River at Jersey Point Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec  | Jan  | Feb | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|------|------|------|-----|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | 127 | -75  | -6   | -90  | -62 | -34 | -55  | -219 | -566 | -227 | -178 | 28  |
| 20% Exceedance                              | 91  | -94  | -22  | -169 | -58 | -12 | -4   | 24   | -7   | -26  | -58  | 12  |
| 30% Exceedance                              | 4   | -30  | -109 | -40  | -10 | -1  | 10   | 30   | 18   | -56  | -5   | 60  |
| 40% Exceedance                              | 0   | -52  | -19  | 14   | -2  | 5   | 12   | 20   | -6   | -23  | -18  | 57  |
| 50% Exceedance                              | -63 | -44  | -38  | -18  | 2   | 5   | 7    | 2    | -1   | 5    | 87   | 67  |
| 60% Exceedance                              | 5   | 31   | -7   | -9   | 0   | 6   | 4    | 7    | -6   | 4    | 36   | 78  |
| 70% Exceedance                              | -2  | 12   | -39  | -2   | -1  | 5   | 6    | 2    | 3    | 12   | 31   | 30  |
| 80% Exceedance                              | -1  | 30   | -1   | 0    | -1  | 2   | 1    | -2   | -5   | 3    | 31   | 11  |
| 90% Exceedance                              | -4  | -38  | -23  | -1   | 0   | -2  | -3   | 2    | 0    | -9   | 20   | 9   |
| Full Simulation Period Average <sup>a</sup> | 35  | -34  | -18  | -9   | 1   | -2  | -18  | -41  | -49  | -55  | -12  | 41  |
| Wet Water Years (28%)                       | 4   | 8    | -20  | -6   | 0   | 0   | 1    | 2    | 1    | 2    | 26   | 24  |
| Above Normal Years (14%)                    | -1  | -9   | -23  | -4   | 1   | 6   | 10   | 6    | -2   | 19   | 47   | 35  |
| Below Normal Years (18%)                    | 5   | -43  | -6   | 23   | -1  | 6   | 9    | 17   | 4    | 6    | 15   | 16  |
| Dry Water Years (24%)                       | 17  | 4    | -11  | -66  | -33 | -9  | 0    | 10   | 4    | 16   | 97   | 58  |
| Critical Water Years (16%)                  | 194 | -185 | -38  | 30   | 54  | -11 | -131 | -298 | -318 | -391 | -324 | 78  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-8-3a. San Joaquin River at Jersey Point Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,921 | 2,049 | 1,960 | 1,519 | 710 | 337 | 369 | 654 | 1,105 | 1,283 | 1,529 | 1,768 |
| 20% Exceedance                              | 1,793 | 1,900 | 1,759 | 1,143 | 469 | 282 | 285 | 308 | 424   | 914   | 1,305 | 1,729 |
| 30% Exceedance                              | 1,707 | 1,788 | 1,683 | 812   | 341 | 259 | 253 | 284 | 375   | 781   | 1,208 | 1,649 |
| 40% Exceedance                              | 1,650 | 1,720 | 1,409 | 529   | 272 | 244 | 242 | 268 | 343   | 681   | 1,097 | 1,588 |
| 50% Exceedance                              | 1,493 | 1,299 | 1,255 | 408   | 250 | 235 | 236 | 257 | 302   | 585   | 881   | 1,515 |
| 60% Exceedance                              | 354   | 949   | 787   | 290   | 238 | 225 | 231 | 235 | 286   | 449   | 750   | 587   |
| 70% Exceedance                              | 282   | 881   | 645   | 235   | 219 | 221 | 223 | 223 | 261   | 383   | 647   | 529   |
| 80% Exceedance                              | 266   | 791   | 479   | 217   | 209 | 213 | 216 | 217 | 225   | 347   | 583   | 463   |
| 90% Exceedance                              | 247   | 429   | 326   | 204   | 202 | 204 | 200 | 181 | 188   | 263   | 531   | 413   |
| Full Simulation Period Average <sup>a</sup> | 1,093 | 1,315 | 1,140 | 631   | 351 | 261 | 276 | 342 | 425   | 673   | 959   | 1,156 |
| Wet Water Years (28%)                       | 280   | 714   | 1,025 | 240   | 210 | 207 | 205 | 199 | 220   | 322   | 566   | 464   |
| Above Normal Years (14%)                    | 264   | 787   | 1,168 | 461   | 248 | 221 | 233 | 239 | 261   | 367   | 620   | 458   |
| Below Normal Years (18%)                    | 1,539 | 1,680 | 995   | 593   | 306 | 242 | 243 | 255 | 337   | 637   | 1,091 | 1,654 |
| Dry Water Years (24%)                       | 1,678 | 1,629 | 1,059 | 915   | 429 | 274 | 256 | 281 | 362   | 802   | 1,113 | 1,662 |
| Critical Water Years (16%)                  | 1,966 | 2,025 | 1,630 | 1,084 | 620 | 391 | 503 | 872 | 1,120 | 1,402 | 1,565 | 1,660 |

**Table F.2.5-8-3b. San Joaquin River at Jersey Point Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 2,050 | 2,048 | 1,962 | 1,417 | 650 | 304 | 302 | 406 | 476 | 1,053 | 1,351 | 1,801 |
| 20% Exceedance                              | 1,856 | 1,806 | 1,746 | 974   | 396 | 273 | 275 | 302 | 399 | 887   | 1,255 | 1,749 |
| 30% Exceedance                              | 1,716 | 1,752 | 1,579 | 761   | 328 | 258 | 258 | 286 | 374 | 738   | 1,189 | 1,695 |
| 40% Exceedance                              | 1,640 | 1,679 | 1,387 | 534   | 270 | 249 | 250 | 266 | 325 | 661   | 1,077 | 1,650 |
| 50% Exceedance                              | 1,492 | 1,179 | 1,204 | 393   | 251 | 240 | 241 | 245 | 298 | 586   | 958   | 1,573 |
| 60% Exceedance                              | 362   | 978   | 784   | 283   | 238 | 231 | 234 | 236 | 280 | 449   | 773   | 651   |
| 70% Exceedance                              | 281   | 898   | 620   | 232   | 218 | 226 | 228 | 223 | 252 | 383   | 661   | 552   |
| 80% Exceedance                              | 265   | 811   | 485   | 216   | 209 | 215 | 217 | 213 | 220 | 349   | 612   | 467   |
| 90% Exceedance                              | 242   | 402   | 309   | 203   | 202 | 202 | 197 | 183 | 188 | 254   | 529   | 415   |
| Full Simulation Period Average <sup>a</sup> | 1,124 | 1,295 | 1,117 | 618   | 355 | 259 | 253 | 281 | 357 | 612   | 938   | 1,196 |
| Wet Water Years (28%)                       | 283   | 723   | 1,004 | 236   | 210 | 207 | 205 | 201 | 221 | 323   | 588   | 486   |
| Above Normal Years (14%)                    | 262   | 780   | 1,145 | 455   | 248 | 228 | 242 | 238 | 254 | 366   | 640   | 483   |
| Below Normal Years (18%)                    | 1,559 | 1,655 | 974   | 592   | 305 | 248 | 247 | 251 | 332 | 642   | 1,091 | 1,667 |
| Dry Water Years (24%)                       | 1,675 | 1,622 | 1,045 | 824   | 394 | 264 | 251 | 272 | 350 | 824   | 1,216 | 1,719 |
| Critical Water Years (16%)                  | 2,152 | 1,920 | 1,588 | 1,148 | 702 | 385 | 359 | 506 | 724 | 982   | 1,225 | 1,747 |

**Table F.2.5-8-3c. San Joaquin River at Jersey Point Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec  | Jan  | Feb | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|------|------|------|-----|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | 129 | 0    | 2    | -102 | -59 | -33 | -67  | -247 | -629 | -230 | -178 | 34  |
| 20% Exceedance                              | 63  | -94  | -12  | -169 | -73 | -9  | -9   | -6   | -25  | -27  | -51  | 19  |
| 30% Exceedance                              | 9   | -36  | -104 | -51  | -13 | -1  | 5    | 1    | -1   | -43  | -19  | 46  |
| 40% Exceedance                              | -10 | -41  | -22  | 5    | -2  | 5   | 8    | -3   | -18  | -21  | -20  | 62  |
| 50% Exceedance                              | -2  | -121 | -52  | -15  | 1   | 5   | 5    | -12  | -4   | 1    | 77   | 58  |
| 60% Exceedance                              | 9   | 29   | -2   | -7   | 0   | 6   | 3    | 1    | -6   | 0    | 23   | 64  |
| 70% Exceedance                              | -2  | 17   | -25  | -3   | -1  | 5   | 5    | 0    | -9   | 0    | 14   | 24  |
| 80% Exceedance                              | -2  | 20   | 6    | 0    | -1  | 2   | 1    | -4   | -5   | 2    | 29   | 4   |
| 90% Exceedance                              | -5  | -27  | -17  | -1   | 0   | -2  | -3   | 2    | 0    | -9   | -2   | 3   |
| Full Simulation Period Average <sup>a</sup> | 31  | -20  | -22  | -14  | 5   | -1  | -22  | -61  | -68  | -61  | -21  | 40  |
| Wet Water Years (28%)                       | 3   | 9    | -21  | -3   | 0   | 0   | 1    | 1    | 0    | 1    | 22   | 22  |
| Above Normal Years (14%)                    | -2  | -7   | -23  | -5   | 1   | 6   | 9    | -1   | -6   | -1   | 20   | 25  |
| Below Normal Years (18%)                    | 20  | -25  | -21  | -2   | -2  | 6   | 4    | -4   | -5   | 6    | 0    | 14  |
| Dry Water Years (24%)                       | -4  | -6   | -13  | -91  | -35 | -10 | -5   | -9   | -12  | 21   | 103  | 57  |
| Critical Water Years (16%)                  | 187 | -105 | -42  | 64   | 82  | -7  | -145 | -365 | -396 | -420 | -340 | 88  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-8-4a. San Joaquin River at Jersey Point Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,921 | 2,049 | 1,960 | 1,519 | 710 | 337 | 369 | 654 | 1,105 | 1,283 | 1,529 | 1,768 |
| 20% Exceedance                              | 1,793 | 1,900 | 1,759 | 1,143 | 469 | 282 | 285 | 308 | 424   | 914   | 1,305 | 1,729 |
| 30% Exceedance                              | 1,707 | 1,788 | 1,683 | 812   | 341 | 259 | 253 | 284 | 375   | 781   | 1,208 | 1,649 |
| 40% Exceedance                              | 1,650 | 1,720 | 1,409 | 529   | 272 | 244 | 242 | 268 | 343   | 681   | 1,097 | 1,588 |
| 50% Exceedance                              | 1,493 | 1,299 | 1,255 | 408   | 250 | 235 | 236 | 257 | 302   | 585   | 881   | 1,515 |
| 60% Exceedance                              | 354   | 949   | 787   | 290   | 238 | 225 | 231 | 235 | 286   | 449   | 750   | 587   |
| 70% Exceedance                              | 282   | 881   | 645   | 235   | 219 | 221 | 223 | 223 | 261   | 383   | 647   | 529   |
| 80% Exceedance                              | 266   | 791   | 479   | 217   | 209 | 213 | 216 | 217 | 225   | 347   | 583   | 463   |
| 90% Exceedance                              | 247   | 429   | 326   | 204   | 202 | 204 | 200 | 181 | 188   | 263   | 531   | 413   |
| Full Simulation Period Average <sup>a</sup> | 1,093 | 1,315 | 1,140 | 631   | 351 | 261 | 276 | 342 | 425   | 673   | 959   | 1,156 |
| Wet Water Years (28%)                       | 280   | 714   | 1,025 | 240   | 210 | 207 | 205 | 199 | 220   | 322   | 566   | 464   |
| Above Normal Years (14%)                    | 264   | 787   | 1,168 | 461   | 248 | 221 | 233 | 239 | 261   | 367   | 620   | 458   |
| Below Normal Years (18%)                    | 1,539 | 1,680 | 995   | 593   | 306 | 242 | 243 | 255 | 337   | 637   | 1,091 | 1,654 |
| Dry Water Years (24%)                       | 1,678 | 1,629 | 1,059 | 915   | 429 | 274 | 256 | 281 | 362   | 802   | 1,113 | 1,662 |
| Critical Water Years (16%)                  | 1,966 | 2,025 | 1,630 | 1,084 | 620 | 391 | 503 | 872 | 1,120 | 1,402 | 1,565 | 1,660 |

**Table F.2.5-8-4b. San Joaquin River at Jersey Point Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,948 | 2,038 | 1,936 | 1,398 | 625 | 341 | 360 | 624 | 1,082 | 1,341 | 1,522 | 1,764 |
| 20% Exceedance                              | 1,800 | 1,851 | 1,782 | 981   | 399 | 275 | 287 | 330 | 427   | 894   | 1,294 | 1,725 |
| 30% Exceedance                              | 1,722 | 1,780 | 1,665 | 786   | 333 | 257 | 250 | 310 | 386   | 759   | 1,194 | 1,678 |
| 40% Exceedance                              | 1,640 | 1,715 | 1,419 | 516   | 264 | 244 | 241 | 284 | 343   | 673   | 1,116 | 1,629 |
| 50% Exceedance                              | 1,435 | 1,239 | 1,271 | 397   | 250 | 234 | 232 | 252 | 302   | 591   | 943   | 1,533 |
| 60% Exceedance                              | 357   | 974   | 782   | 282   | 238 | 225 | 228 | 231 | 281   | 442   | 797   | 662   |
| 70% Exceedance                              | 281   | 876   | 639   | 231   | 218 | 220 | 220 | 220 | 258   | 401   | 682   | 563   |
| 80% Exceedance                              | 266   | 765   | 467   | 216   | 209 | 213 | 213 | 211 | 218   | 354   | 620   | 475   |
| 90% Exceedance                              | 242   | 382   | 297   | 203   | 202 | 202 | 196 | 182 | 188   | 254   | 558   | 420   |
| Full Simulation Period Average <sup>a</sup> | 1,100 | 1,298 | 1,134 | 602   | 336 | 259 | 272 | 341 | 418   | 667   | 979   | 1,177 |
| Wet Water Years (28%)                       | 283   | 709   | 1,019 | 232   | 210 | 206 | 203 | 200 | 220   | 328   | 597   | 487   |
| Above Normal Years (14%)                    | 263   | 761   | 1,160 | 456   | 248 | 222 | 226 | 236 | 255   | 376   | 685   | 493   |
| Below Normal Years (18%)                    | 1,520 | 1,630 | 981   | 586   | 300 | 241 | 241 | 266 | 335   | 643   | 1,106 | 1,673 |
| Dry Water Years (24%)                       | 1,697 | 1,637 | 1,087 | 869   | 393 | 269 | 256 | 290 | 364   | 796   | 1,148 | 1,696 |
| Critical Water Years (16%)                  | 2,005 | 1,996 | 1,583 | 996   | 590 | 387 | 494 | 841 | 1,083 | 1,347 | 1,507 | 1,648 |

**Table F.2.5-8-4c. San Joaquin River at Jersey Point Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan  | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 27  | -11 | -25 | -122 | -85 | 5   | -9  | -30 | -23 | 58  | -7  | -4  |
| 20% Exceedance                              | 7   | -49 | 23  | -162 | -70 | -7  | 3   | 22  | 2   | -20 | -11 | -4  |
| 30% Exceedance                              | 15  | -8  | -18 | -26  | -7  | -3  | -3  | 26  | 11  | -22 | -14 | 30  |
| 40% Exceedance                              | -9  | -5  | 10  | -13  | -8  | 0   | -1  | 15  | 0   | -9  | 19  | 41  |
| 50% Exceedance                              | -58 | -60 | 15  | -11  | 0   | -1  | -4  | -6  | 0   | 6   | 62  | 18  |
| 60% Exceedance                              | 4   | 25  | -5  | -9   | 0   | 0   | -3  | -3  | -5  | -7  | 48  | 75  |
| 70% Exceedance                              | -1  | -5  | -6  | -4   | -1  | -1  | -3  | -3  | -3  | 18  | 35  | 34  |
| 80% Exceedance                              | 0   | -27 | -11 | 0    | -1  | 0   | -4  | -6  | -6  | 7   | 37  | 12  |
| 90% Exceedance                              | -5  | -46 | -29 | -1   | 0   | -2  | -4  | 1   | 0   | -10 | 27  | 8   |
| Full Simulation Period Average <sup>a</sup> | 8   | -17 | -6  | -29  | -15 | -2  | -3  | -1  | -7  | -6  | 20  | 21  |
| Wet Water Years (28%)                       | 4   | -5  | -6  | -8   | 0   | -1  | -2  | 1   | -1  | 6   | 32  | 23  |
| Above Normal Years (14%)                    | -1  | -26 | -9  | -5   | 0   | 0   | -7  | -3  | -5  | 9   | 65  | 35  |
| Below Normal Years (18%)                    | -19 | -50 | -14 | -7   | -6  | -1  | -3  | 11  | -2  | 7   | 15  | 19  |
| Dry Water Years (24%)                       | 19  | 8   | 29  | -46  | -36 | -5  | 1   | 9   | 2   | -6  | 35  | 33  |
| Critical Water Years (16%)                  | 39  | -29 | -47 | -88  | -31 | -5  | -9  | -30 | -37 | -55 | -58 | -11 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-8-5a. San Joaquin River at Jersey Point Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,921 | 2,049 | 1,960 | 1,519 | 710 | 337 | 369 | 654 | 1,105 | 1,283 | 1,529 | 1,768 |
| 20% Exceedance                              | 1,793 | 1,900 | 1,759 | 1,143 | 469 | 282 | 285 | 308 | 424   | 914   | 1,305 | 1,729 |
| 30% Exceedance                              | 1,707 | 1,788 | 1,683 | 812   | 341 | 259 | 253 | 284 | 375   | 781   | 1,208 | 1,649 |
| 40% Exceedance                              | 1,650 | 1,720 | 1,409 | 529   | 272 | 244 | 242 | 268 | 343   | 681   | 1,097 | 1,588 |
| 50% Exceedance                              | 1,493 | 1,299 | 1,255 | 408   | 250 | 235 | 236 | 257 | 302   | 585   | 881   | 1,515 |
| 60% Exceedance                              | 354   | 949   | 787   | 290   | 238 | 225 | 231 | 235 | 286   | 449   | 750   | 587   |
| 70% Exceedance                              | 282   | 881   | 645   | 235   | 219 | 221 | 223 | 223 | 261   | 383   | 647   | 529   |
| 80% Exceedance                              | 266   | 791   | 479   | 217   | 209 | 213 | 216 | 217 | 225   | 347   | 583   | 463   |
| 90% Exceedance                              | 247   | 429   | 326   | 204   | 202 | 204 | 200 | 181 | 188   | 263   | 531   | 413   |
| Full Simulation Period Average <sup>a</sup> | 1,093 | 1,315 | 1,140 | 631   | 351 | 261 | 276 | 342 | 425   | 673   | 959   | 1,156 |
| Wet Water Years (28%)                       | 280   | 714   | 1,025 | 240   | 210 | 207 | 205 | 199 | 220   | 322   | 566   | 464   |
| Above Normal Years (14%)                    | 264   | 787   | 1,168 | 461   | 248 | 221 | 233 | 239 | 261   | 367   | 620   | 458   |
| Below Normal Years (18%)                    | 1,539 | 1,680 | 995   | 593   | 306 | 242 | 243 | 255 | 337   | 637   | 1,091 | 1,654 |
| Dry Water Years (24%)                       | 1,678 | 1,629 | 1,059 | 915   | 429 | 274 | 256 | 281 | 362   | 802   | 1,113 | 1,662 |
| Critical Water Years (16%)                  | 1,966 | 2,025 | 1,630 | 1,084 | 620 | 391 | 503 | 872 | 1,120 | 1,402 | 1,565 | 1,660 |

**Table F.2.5-8-5b. San Joaquin River at Jersey Point Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 729 | 610 | 434 | 356 | 363 | 373 | 401 | 467 | 839 | 1,224 | 1,344 | 1,117 |
| 20% Exceedance                              | 554 | 468 | 349 | 328 | 342 | 348 | 371 | 405 | 696 | 1,040 | 1,156 | 921   |
| 30% Exceedance                              | 440 | 355 | 316 | 306 | 327 | 340 | 355 | 361 | 637 | 894   | 1,032 | 807   |
| 40% Exceedance                              | 369 | 325 | 295 | 293 | 318 | 329 | 338 | 329 | 459 | 692   | 805   | 616   |
| 50% Exceedance                              | 335 | 304 | 283 | 287 | 310 | 319 | 319 | 299 | 344 | 483   | 656   | 561   |
| 60% Exceedance                              | 314 | 298 | 270 | 276 | 297 | 305 | 305 | 287 | 314 | 410   | 557   | 485   |
| 70% Exceedance                              | 297 | 292 | 259 | 268 | 287 | 293 | 291 | 265 | 276 | 344   | 478   | 393   |
| 80% Exceedance                              | 290 | 285 | 255 | 263 | 263 | 276 | 253 | 249 | 251 | 296   | 385   | 336   |
| 90% Exceedance                              | 281 | 268 | 236 | 236 | 220 | 219 | 209 | 166 | 202 | 275   | 329   | 294   |
| Full Simulation Period Average <sup>a</sup> | 419 | 389 | 324 | 305 | 309 | 311 | 320 | 330 | 467 | 667   | 789   | 641   |
| Wet Water Years (28%)                       | 296 | 288 | 261 | 259 | 254 | 252 | 233 | 210 | 236 | 301   | 388   | 347   |
| Above Normal Years (14%)                    | 307 | 299 | 279 | 291 | 302 | 298 | 302 | 285 | 319 | 378   | 477   | 422   |
| Below Normal Years (18%)                    | 362 | 331 | 300 | 288 | 320 | 323 | 324 | 316 | 463 | 617   | 698   | 560   |
| Dry Water Years (24%)                       | 459 | 393 | 332 | 300 | 319 | 334 | 345 | 358 | 566 | 855   | 1,010 | 797   |
| Critical Water Years (16%)                  | 769 | 728 | 500 | 424 | 382 | 377 | 442 | 551 | 856 | 1,336 | 1,533 | 1,207 |

**Table F.2.5-8-5c. San Joaquin River at Jersey Point Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb  | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|--------|--------|--------|--------|------|-----|-----|------|------|------|------|--------|
| 10% Exceedance                              | -1,192 | -1,439 | -1,526 | -1,164 | -347 | 37  | 32  | -187 | -265 | -59  | -185 | -651   |
| 20% Exceedance                              | -1,239 | -1,432 | -1,409 | -815   | -127 | 67  | 86  | 97   | 272  | 126  | -149 | -809   |
| 30% Exceedance                              | -1,268 | -1,433 | -1,367 | -506   | -14  | 80  | 102 | 77   | 262  | 113  | -176 | -842   |
| 40% Exceedance                              | -1,280 | -1,395 | -1,114 | -236   | 46   | 85  | 96  | 61   | 117  | 11   | -291 | -972   |
| 50% Exceedance                              | -1,158 | -995   | -973   | -121   | 59   | 84  | 83  | 42   | 42   | -101 | -225 | -953   |
| 60% Exceedance                              | -40    | -651   | -517   | -14    | 59   | 80  | 74  | 52   | 28   | -39  | -193 | -102   |
| 70% Exceedance                              | 14     | -589   | -386   | 33     | 68   | 72  | 68  | 42   | 14   | -38  | -169 | -135   |
| 80% Exceedance                              | 23     | -506   | -224   | 46     | 54   | 63  | 37  | 32   | 26   | -51  | -198 | -127   |
| 90% Exceedance                              | 34     | -161   | -90    | 32     | 17   | 15  | 9   | -15  | 14   | 12   | -202 | -118   |
| Full Simulation Period Average <sup>a</sup> | -673   | -926   | -816   | -326   | -42  | 50  | 44  | -12  | 42   | -6   | -170 | -515   |
| Wet Water Years (28%)                       | 16     | -426   | -764   | 19     | 44   | 44  | 29  | 11   | 16   | -21  | -178 | -117   |
| Above Normal Years (14%)                    | 43     | -488   | -889   | -170   | 54   | 77  | 68  | 46   | 58   | 11   | -143 | -35    |
| Below Normal Years (18%)                    | -1,176 | -1,349 | -695   | -305   | 14   | 81  | 81  | 61   | 126  | -19  | -393 | -1,094 |
| Dry Water Years (24%)                       | -1,220 | -1,236 | -726   | -615   | -110 | 60  | 89  | 78   | 204  | 53   | -103 | -865   |
| Critical Water Years (16%)                  | -1,197 | -1,297 | -1,130 | -659   | -238 | -14 | -61 | -321 | -264 | -66  | -32  | -453   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-8-6a. San Joaquin River at Jersey Point Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 5,457 | 5,316 | 2,082 | 637   | 409 | 371 | 355 | 623 | 2,415 | 5,505 | 7,546 | 7,095 |
| 20% Exceedance                              | 4,716 | 3,041 | 1,328 | 417   | 354 | 349 | 344 | 378 | 1,568 | 4,695 | 7,091 | 6,376 |
| 30% Exceedance                              | 3,284 | 1,867 | 684   | 363   | 340 | 332 | 327 | 325 | 1,014 | 3,680 | 6,313 | 5,610 |
| 40% Exceedance                              | 2,379 | 1,081 | 513   | 351   | 325 | 322 | 314 | 294 | 629   | 2,902 | 5,662 | 5,057 |
| 50% Exceedance                              | 1,539 | 731   | 424   | 323   | 315 | 312 | 299 | 286 | 441   | 2,100 | 5,156 | 4,518 |
| 60% Exceedance                              | 1,018 | 537   | 347   | 305   | 305 | 299 | 287 | 267 | 317   | 1,549 | 4,230 | 3,211 |
| 70% Exceedance                              | 628   | 426   | 320   | 288   | 295 | 277 | 266 | 253 | 264   | 946   | 3,041 | 1,834 |
| 80% Exceedance                              | 402   | 353   | 289   | 271   | 253 | 262 | 232 | 224 | 244   | 509   | 1,404 | 1,070 |
| 90% Exceedance                              | 339   | 320   | 266   | 243   | 219 | 209 | 187 | 149 | 199   | 351   | 744   | 561   |
| Full Simulation Period Average <sup>a</sup> | 2,393 | 1,787 | 909   | 481   | 360 | 311 | 303 | 374 | 933   | 2,579 | 4,552 | 3,942 |
| Wet Water Years (28%)                       | 555   | 408   | 327   | 274   | 250 | 237 | 213 | 195 | 245   | 765   | 1,864 | 1,280 |
| Above Normal Years (14%)                    | 1,071 | 609   | 374   | 338   | 300 | 286 | 273 | 262 | 370   | 1,572 | 3,695 | 2,721 |
| Below Normal Years (18%)                    | 2,284 | 1,336 | 670   | 362   | 327 | 319 | 301 | 299 | 779   | 2,829 | 5,423 | 4,366 |
| Dry Water Years (24%)                       | 3,267 | 2,193 | 1,136 | 396   | 337 | 331 | 326 | 362 | 1,103 | 3,424 | 5,990 | 5,508 |
| Critical Water Years (16%)                  | 5,881 | 5,427 | 2,450 | 1,230 | 673 | 423 | 457 | 888 | 2,549 | 5,084 | 6,870 | 6,844 |

**Table F.2.5-8-6b. San Joaquin River at Jersey Point Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 2,031 | 1,956 | 1,976 | 1,396 | 598 | 333 | 343 | 429 | 545 | 1,052 | 1,333 | 1,779 |
| 20% Exceedance                              | 1,895 | 1,817 | 1,775 | 963   | 399 | 268 | 267 | 330 | 413 | 846   | 1,214 | 1,722 |
| 30% Exceedance                              | 1,723 | 1,742 | 1,563 | 794   | 332 | 257 | 250 | 311 | 383 | 732   | 1,142 | 1,681 |
| 40% Exceedance                              | 1,648 | 1,680 | 1,401 | 525   | 270 | 244 | 241 | 284 | 338 | 656   | 1,048 | 1,630 |
| 50% Exceedance                              | 1,419 | 1,226 | 1,184 | 381   | 251 | 234 | 233 | 252 | 299 | 561   | 932   | 1,534 |
| 60% Exceedance                              | 357   | 974   | 782   | 282   | 238 | 225 | 228 | 232 | 281 | 442   | 797   | 663   |
| 70% Exceedance                              | 282   | 876   | 628   | 231   | 218 | 221 | 220 | 220 | 258 | 400   | 682   | 563   |
| 80% Exceedance                              | 267   | 770   | 467   | 216   | 209 | 213 | 213 | 211 | 218 | 359   | 618   | 472   |
| 90% Exceedance                              | 242   | 386   | 300   | 203   | 202 | 202 | 196 | 182 | 188 | 254   | 559   | 413   |
| Full Simulation Period Average <sup>a</sup> | 1,118 | 1,271 | 1,124 | 617   | 339 | 255 | 252 | 298 | 374 | 609   | 924   | 1,182 |
| Wet Water Years (28%)                       | 283   | 710   | 1,019 | 232   | 210 | 206 | 203 | 200 | 220 | 328   | 597   | 487   |
| Above Normal Years (14%)                    | 261   | 760   | 1,158 | 456   | 248 | 222 | 227 | 236 | 255 | 376   | 682   | 491   |
| Below Normal Years (18%)                    | 1,524 | 1,627 | 963   | 610   | 301 | 242 | 241 | 266 | 336 | 645   | 1,071 | 1,654 |
| Dry Water Years (24%)                       | 1,697 | 1,640 | 1,067 | 852   | 391 | 269 | 256 | 290 | 364 | 794   | 1,145 | 1,695 |
| Critical Water Years (16%)                  | 2,117 | 1,812 | 1,572 | 1,085 | 611 | 364 | 370 | 572 | 802 | 985   | 1,211 | 1,699 |

**Table F.2.5-8-6c. San Joaquin River at Jersey Point Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -3,426 | -3,361 | -105 | 759  | 189 | -38 | -12 | -194 | -1,870 | -4,453 | -6,213 | -5,316 |
| 20% Exceedance                              | -2,822 | -1,224 | 448  | 546  | 45  | -82 | -78 | -48  | -1,156 | -3,849 | -5,877 | -4,654 |
| 30% Exceedance                              | -1,560 | -124   | 878  | 431  | -8  | -75 | -78 | -13  | -631   | -2,948 | -5,171 | -3,930 |
| 40% Exceedance                              | -731   | 599    | 889  | 175  | -56 | -77 | -73 | -10  | -291   | -2,246 | -4,615 | -3,426 |
| 50% Exceedance                              | -121   | 495    | 760  | 58   | -64 | -78 | -66 | -35  | -141   | -1,539 | -4,224 | -2,984 |
| 60% Exceedance                              | -661   | 438    | 435  | -23  | -67 | -74 | -59 | -35  | -36    | -1,107 | -3,433 | -2,548 |
| 70% Exceedance                              | -347   | 450    | 308  | -56  | -77 | -57 | -47 | -33  | -6     | -546   | -2,359 | -1,271 |
| 80% Exceedance                              | -136   | 417    | 179  | -55  | -44 | -49 | -19 | -13  | -26    | -150   | -785   | -598   |
| 90% Exceedance                              | -97    | 67     | 33   | -40  | -16 | -8  | 8   | 32   | -11    | -97    | -185   | -147   |
| Full Simulation Period Average <sup>a</sup> | -1,276 | -516   | 216  | 136  | -20 | -56 | -51 | -76  | -560   | -1,970 | -3,628 | -2,761 |
| Wet Water Years (28%)                       | -271   | 302    | 693  | -42  | -40 | -31 | -10 | 5    | -25    | -437   | -1,267 | -793   |
| Above Normal Years (14%)                    | -810   | 151    | 784  | 118  | -52 | -64 | -46 | -26  | -114   | -1,195 | -3,013 | -2,229 |
| Below Normal Years (18%)                    | -760   | 291    | 293  | 248  | -26 | -77 | -60 | -32  | -443   | -2,185 | -4,352 | -2,713 |
| Dry Water Years (24%)                       | -1,570 | -554   | -70  | 456  | 55  | -62 | -69 | -72  | -739   | -2,630 | -4,845 | -3,812 |
| Critical Water Years (16%)                  | -3,764 | -3,615 | -879 | -145 | -62 | -59 | -88 | -316 | -1,747 | -4,099 | -5,659 | -5,145 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-8-7a. San Joaquin River at Jersey Point Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 5,457 | 5,316 | 2,082 | 637   | 409 | 371 | 355 | 623 | 2,415 | 5,505 | 7,546 | 7,095 |
| 20% Exceedance                              | 4,716 | 3,041 | 1,328 | 417   | 354 | 349 | 344 | 378 | 1,568 | 4,695 | 7,091 | 6,376 |
| 30% Exceedance                              | 3,284 | 1,867 | 684   | 363   | 340 | 332 | 327 | 325 | 1,014 | 3,680 | 6,313 | 5,610 |
| 40% Exceedance                              | 2,379 | 1,081 | 513   | 351   | 325 | 322 | 314 | 294 | 629   | 2,902 | 5,662 | 5,057 |
| 50% Exceedance                              | 1,539 | 731   | 424   | 323   | 315 | 312 | 299 | 286 | 441   | 2,100 | 5,156 | 4,518 |
| 60% Exceedance                              | 1,018 | 537   | 347   | 305   | 305 | 299 | 287 | 267 | 317   | 1,549 | 4,230 | 3,211 |
| 70% Exceedance                              | 628   | 426   | 320   | 288   | 295 | 277 | 266 | 253 | 264   | 946   | 3,041 | 1,834 |
| 80% Exceedance                              | 402   | 353   | 289   | 271   | 253 | 262 | 232 | 224 | 244   | 509   | 1,404 | 1,070 |
| 90% Exceedance                              | 339   | 320   | 266   | 243   | 219 | 209 | 187 | 149 | 199   | 351   | 744   | 561   |
| Full Simulation Period Average <sup>a</sup> | 2,393 | 1,787 | 909   | 481   | 360 | 311 | 303 | 374 | 933   | 2,579 | 4,552 | 3,942 |
| Wet Water Years (28%)                       | 555   | 408   | 327   | 274   | 250 | 237 | 213 | 195 | 245   | 765   | 1,864 | 1,280 |
| Above Normal Years (14%)                    | 1,071 | 609   | 374   | 338   | 300 | 286 | 273 | 262 | 370   | 1,572 | 3,695 | 2,721 |
| Below Normal Years (18%)                    | 2,284 | 1,336 | 670   | 362   | 327 | 319 | 301 | 299 | 779   | 2,829 | 5,423 | 4,366 |
| Dry Water Years (24%)                       | 3,267 | 2,193 | 1,136 | 396   | 337 | 331 | 326 | 362 | 1,103 | 3,424 | 5,990 | 5,508 |
| Critical Water Years (16%)                  | 5,881 | 5,427 | 2,450 | 1,230 | 673 | 423 | 457 | 888 | 2,549 | 5,084 | 6,870 | 6,844 |

**Table F.2.5-8-7b. San Joaquin River at Jersey Point Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 2,048 | 1,973 | 1,954 | 1,429 | 648 | 303 | 314 | 435 | 539 | 1,056 | 1,351 | 1,796 |
| 20% Exceedance                              | 1,884 | 1,805 | 1,737 | 974   | 411 | 270 | 281 | 332 | 418 | 888   | 1,248 | 1,741 |
| 30% Exceedance                              | 1,711 | 1,758 | 1,574 | 772   | 330 | 258 | 262 | 315 | 393 | 725   | 1,204 | 1,709 |
| 40% Exceedance                              | 1,649 | 1,668 | 1,390 | 542   | 270 | 249 | 254 | 288 | 336 | 658   | 1,078 | 1,645 |
| 50% Exceedance                              | 1,430 | 1,255 | 1,217 | 390   | 252 | 240 | 243 | 259 | 302 | 590   | 968   | 1,581 |
| 60% Exceedance                              | 359   | 980   | 780   | 282   | 237 | 231 | 235 | 241 | 280 | 453   | 785   | 665   |
| 70% Exceedance                              | 281   | 894   | 606   | 233   | 218 | 226 | 229 | 225 | 264 | 395   | 678   | 559   |
| 80% Exceedance                              | 265   | 821   | 478   | 216   | 209 | 215 | 218 | 215 | 219 | 350   | 613   | 474   |
| 90% Exceedance                              | 243   | 391   | 302   | 203   | 202 | 202 | 197 | 183 | 188 | 254   | 551   | 421   |
| Full Simulation Period Average <sup>a</sup> | 1,128 | 1,281 | 1,122 | 622   | 352 | 259 | 258 | 301 | 376 | 618   | 947   | 1,197 |
| Wet Water Years (28%)                       | 284   | 722   | 1,005 | 234   | 210 | 207 | 206 | 202 | 221 | 324   | 592   | 488   |
| Above Normal Years (14%)                    | 262   | 777   | 1,145 | 457   | 248 | 228 | 243 | 244 | 259 | 386   | 667   | 493   |
| Below Normal Years (18%)                    | 1,544 | 1,637 | 989   | 616   | 305 | 248 | 252 | 272 | 341 | 642   | 1,106 | 1,670 |
| Dry Water Years (24%)                       | 1,696 | 1,632 | 1,048 | 849   | 396 | 264 | 256 | 291 | 366 | 818   | 1,210 | 1,721 |
| Critical Water Years (16%)                  | 2,160 | 1,839 | 1,592 | 1,113 | 675 | 381 | 372 | 573 | 802 | 1,011 | 1,241 | 1,738 |

**Table F.2.5-8-7c. San Joaquin River at Jersey Point Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -3,409 | -3,343 | -128 | 792  | 239 | -67 | -41 | -188 | -1,876 | -4,448 | -6,195 | -5,299 |
| 20% Exceedance                              | -2,832 | -1,236 | 409  | 557  | 57  | -79 | -63 | -47  | -1,151 | -3,807 | -5,843 | -4,634 |
| 30% Exceedance                              | -1,572 | -109   | 889  | 409  | -10 | -74 | -65 | -10  | -621   | -2,955 | -5,110 | -3,902 |
| 40% Exceedance                              | -730   | 587    | 877  | 192  | -56 | -73 | -60 | -6   | -293   | -2,244 | -4,584 | -3,412 |
| 50% Exceedance                              | -109   | 524    | 793  | 67   | -63 | -72 | -56 | -27  | -139   | -1,510 | -4,188 | -2,937 |
| 60% Exceedance                              | -659   | 443    | 433  | -23  | -67 | -68 | -52 | -26  | -37    | -1,096 | -3,445 | -2,546 |
| 70% Exceedance                              | -348   | 467    | 286  | -55  | -77 | -52 | -37 | -28  | 0      | -552   | -2,363 | -1,276 |
| 80% Exceedance                              | -137   | 468    | 189  | -55  | -44 | -47 | -14 | -9   | -25    | -159   | -790   | -597   |
| 90% Exceedance                              | -97    | 71     | 36   | -40  | -16 | -8  | 9   | 33   | -11    | -97    | -193   | -139   |
| Full Simulation Period Average <sup>a</sup> | -1,266 | -506   | 213  | 141  | -8  | -52 | -45 | -73  | -557   | -1,960 | -3,605 | -2,745 |
| Wet Water Years (28%)                       | -271   | 314    | 678  | -40  | -40 | -30 | -7  | 7    | -24    | -441   | -1,272 | -792   |
| Above Normal Years (14%)                    | -809   | 168    | 771  | 119  | -52 | -58 | -29 | -17  | -111   | -1,186 | -3,028 | -2,228 |
| Below Normal Years (18%)                    | -740   | 300    | 319  | 254  | -22 | -71 | -49 | -27  | -437   | -2,187 | -4,317 | -2,696 |
| Dry Water Years (24%)                       | -1,571 | -561   | -88  | 453  | 59  | -67 | -69 | -71  | -737   | -2,606 | -4,780 | -3,787 |
| Critical Water Years (16%)                  | -3,721 | -3,588 | -858 | -116 | 1   | -42 | -85 | -315 | -1,747 | -4,073 | -5,629 | -5,106 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-8-8a. San Joaquin River at Jersey Point Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 5,457 | 5,316 | 2,082 | 637   | 409 | 371 | 355 | 623 | 2,415 | 5,505 | 7,546 | 7,095 |
| 20% Exceedance                              | 4,716 | 3,041 | 1,328 | 417   | 354 | 349 | 344 | 378 | 1,568 | 4,695 | 7,091 | 6,376 |
| 30% Exceedance                              | 3,284 | 1,867 | 684   | 363   | 340 | 332 | 327 | 325 | 1,014 | 3,680 | 6,313 | 5,610 |
| 40% Exceedance                              | 2,379 | 1,081 | 513   | 351   | 325 | 322 | 314 | 294 | 629   | 2,902 | 5,662 | 5,057 |
| 50% Exceedance                              | 1,539 | 731   | 424   | 323   | 315 | 312 | 299 | 286 | 441   | 2,100 | 5,156 | 4,518 |
| 60% Exceedance                              | 1,018 | 537   | 347   | 305   | 305 | 299 | 287 | 267 | 317   | 1,549 | 4,230 | 3,211 |
| 70% Exceedance                              | 628   | 426   | 320   | 288   | 295 | 277 | 266 | 253 | 264   | 946   | 3,041 | 1,834 |
| 80% Exceedance                              | 402   | 353   | 289   | 271   | 253 | 262 | 232 | 224 | 244   | 509   | 1,404 | 1,070 |
| 90% Exceedance                              | 339   | 320   | 266   | 243   | 219 | 209 | 187 | 149 | 199   | 351   | 744   | 561   |
| Full Simulation Period Average <sup>a</sup> | 2,393 | 1,787 | 909   | 481   | 360 | 311 | 303 | 374 | 933   | 2,579 | 4,552 | 3,942 |
| Wet Water Years (28%)                       | 555   | 408   | 327   | 274   | 250 | 237 | 213 | 195 | 245   | 765   | 1,864 | 1,280 |
| Above Normal Years (14%)                    | 1,071 | 609   | 374   | 338   | 300 | 286 | 273 | 262 | 370   | 1,572 | 3,695 | 2,721 |
| Below Normal Years (18%)                    | 2,284 | 1,336 | 670   | 362   | 327 | 319 | 301 | 299 | 779   | 2,829 | 5,423 | 4,366 |
| Dry Water Years (24%)                       | 3,267 | 2,193 | 1,136 | 396   | 337 | 331 | 326 | 362 | 1,103 | 3,424 | 5,990 | 5,508 |
| Critical Water Years (16%)                  | 5,881 | 5,427 | 2,450 | 1,230 | 673 | 423 | 457 | 888 | 2,549 | 5,084 | 6,870 | 6,844 |

**Table F.2.5-8-8b. San Joaquin River at Jersey Point Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 2,050 | 2,048 | 1,962 | 1,417 | 650 | 304 | 302 | 406 | 476 | 1,053 | 1,351 | 1,801 |
| 20% Exceedance                              | 1,856 | 1,806 | 1,746 | 974   | 396 | 273 | 275 | 302 | 399 | 887   | 1,255 | 1,749 |
| 30% Exceedance                              | 1,716 | 1,752 | 1,579 | 761   | 328 | 258 | 258 | 286 | 374 | 738   | 1,189 | 1,695 |
| 40% Exceedance                              | 1,640 | 1,679 | 1,387 | 534   | 270 | 249 | 250 | 266 | 325 | 661   | 1,077 | 1,650 |
| 50% Exceedance                              | 1,492 | 1,179 | 1,204 | 393   | 251 | 240 | 241 | 245 | 298 | 586   | 958   | 1,573 |
| 60% Exceedance                              | 362   | 978   | 784   | 283   | 238 | 231 | 234 | 236 | 280 | 449   | 773   | 651   |
| 70% Exceedance                              | 281   | 898   | 620   | 232   | 218 | 226 | 228 | 223 | 252 | 383   | 661   | 552   |
| 80% Exceedance                              | 265   | 811   | 485   | 216   | 209 | 215 | 217 | 213 | 220 | 349   | 612   | 467   |
| 90% Exceedance                              | 242   | 402   | 309   | 203   | 202 | 202 | 197 | 183 | 188 | 254   | 529   | 415   |
| Full Simulation Period Average <sup>a</sup> | 1,124 | 1,295 | 1,117 | 618   | 355 | 259 | 253 | 281 | 357 | 612   | 938   | 1,196 |
| Wet Water Years (28%)                       | 283   | 723   | 1,004 | 236   | 210 | 207 | 205 | 201 | 221 | 323   | 588   | 486   |
| Above Normal Years (14%)                    | 262   | 780   | 1,145 | 455   | 248 | 228 | 242 | 238 | 254 | 366   | 640   | 483   |
| Below Normal Years (18%)                    | 1,559 | 1,655 | 974   | 592   | 305 | 248 | 247 | 251 | 332 | 642   | 1,091 | 1,667 |
| Dry Water Years (24%)                       | 1,675 | 1,622 | 1,045 | 824   | 394 | 264 | 251 | 272 | 350 | 824   | 1,216 | 1,719 |
| Critical Water Years (16%)                  | 2,152 | 1,920 | 1,588 | 1,148 | 702 | 385 | 359 | 506 | 724 | 982   | 1,225 | 1,747 |

**Table F.2.5-8-8c. San Joaquin River at Jersey Point Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|-----|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -3,407 | -3,268 | -120 | 780 | 241 | -66 | -53 | -217 | -1,939 | -4,452 | -6,194 | -5,294 |
| 20% Exceedance                              | -2,860 | -1,236 | 419  | 556 | 42  | -76 | -69 | -76  | -1,169 | -3,808 | -5,836 | -4,627 |
| 30% Exceedance                              | -1,567 | -114   | 895  | 397 | -12 | -74 | -70 | -39  | -640   | -2,943 | -5,124 | -3,915 |
| 40% Exceedance                              | -739   | 598    | 874  | 183 | -56 | -73 | -64 | -28  | -305   | -2,242 | -4,586 | -3,407 |
| 50% Exceedance                              | -48    | 448    | 780  | 70  | -64 | -73 | -58 | -42  | -143   | -1,514 | -4,198 | -2,946 |
| 60% Exceedance                              | -656   | 441    | 438  | -22 | -67 | -68 | -53 | -32  | -37    | -1,100 | -3,457 | -2,560 |
| 70% Exceedance                              | -348   | 472    | 300  | -55 | -77 | -52 | -39 | -30  | -12    | -564   | -2,380 | -1,282 |
| 80% Exceedance                              | -138   | 458    | 196  | -55 | -44 | -47 | -14 | -10  | -25    | -159   | -791   | -604   |
| 90% Exceedance                              | -97    | 82     | 43   | -40 | -16 | -8  | 10  | 33   | -11    | -97    | -215   | -145   |
| Full Simulation Period Average <sup>a</sup> | -1,269 | -492   | 209  | 137 | -4  | -51 | -50 | -93  | -576   | -1,967 | -3,614 | -2,746 |
| Wet Water Years (28%)                       | -272   | 316    | 677  | -38 | -40 | -30 | -7  | 6    | -24    | -442   | -1,276 | -794   |
| Above Normal Years (14%)                    | -809   | 171    | 771  | 117 | -52 | -58 | -31 | -24  | -115   | -1,206 | -3,055 | -2,238 |
| Below Normal Years (18%)                    | -725   | 318    | 304  | 230 | -23 | -70 | -53 | -48  | -447   | -2,187 | -4,332 | -2,699 |
| Dry Water Years (24%)                       | -1,592 | -571   | -91  | 428 | 58  | -67 | -75 | -90  | -753   | -2,601 | -4,774 | -3,789 |
| Critical Water Years (16%)                  | -3,729 | -3,507 | -862 | -82 | 29  | -38 | -99 | -382 | -1,825 | -4,102 | -5,645 | -5,097 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-8-9a. San Joaquin River at Jersey Point Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 5,457 | 5,316 | 2,082 | 637   | 409 | 371 | 355 | 623 | 2,415 | 5,505 | 7,546 | 7,095 |
| 20% Exceedance                              | 4,716 | 3,041 | 1,328 | 417   | 354 | 349 | 344 | 378 | 1,568 | 4,695 | 7,091 | 6,376 |
| 30% Exceedance                              | 3,284 | 1,867 | 684   | 363   | 340 | 332 | 327 | 325 | 1,014 | 3,680 | 6,313 | 5,610 |
| 40% Exceedance                              | 2,379 | 1,081 | 513   | 351   | 325 | 322 | 314 | 294 | 629   | 2,902 | 5,662 | 5,057 |
| 50% Exceedance                              | 1,539 | 731   | 424   | 323   | 315 | 312 | 299 | 286 | 441   | 2,100 | 5,156 | 4,518 |
| 60% Exceedance                              | 1,018 | 537   | 347   | 305   | 305 | 299 | 287 | 267 | 317   | 1,549 | 4,230 | 3,211 |
| 70% Exceedance                              | 628   | 426   | 320   | 288   | 295 | 277 | 266 | 253 | 264   | 946   | 3,041 | 1,834 |
| 80% Exceedance                              | 402   | 353   | 289   | 271   | 253 | 262 | 232 | 224 | 244   | 509   | 1,404 | 1,070 |
| 90% Exceedance                              | 339   | 320   | 266   | 243   | 219 | 209 | 187 | 149 | 199   | 351   | 744   | 561   |
| Full Simulation Period Average <sup>a</sup> | 2,393 | 1,787 | 909   | 481   | 360 | 311 | 303 | 374 | 933   | 2,579 | 4,552 | 3,942 |
| Wet Water Years (28%)                       | 555   | 408   | 327   | 274   | 250 | 237 | 213 | 195 | 245   | 765   | 1,864 | 1,280 |
| Above Normal Years (14%)                    | 1,071 | 609   | 374   | 338   | 300 | 286 | 273 | 262 | 370   | 1,572 | 3,695 | 2,721 |
| Below Normal Years (18%)                    | 2,284 | 1,336 | 670   | 362   | 327 | 319 | 301 | 299 | 779   | 2,829 | 5,423 | 4,366 |
| Dry Water Years (24%)                       | 3,267 | 2,193 | 1,136 | 396   | 337 | 331 | 326 | 362 | 1,103 | 3,424 | 5,990 | 5,508 |
| Critical Water Years (16%)                  | 5,881 | 5,427 | 2,450 | 1,230 | 673 | 423 | 457 | 888 | 2,549 | 5,084 | 6,870 | 6,844 |

**Table F.2.5-8-9b. San Joaquin River at Jersey Point Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,948 | 2,038 | 1,936 | 1,398 | 625 | 341 | 360 | 624 | 1,082 | 1,341 | 1,522 | 1,764 |
| 20% Exceedance                              | 1,800 | 1,851 | 1,782 | 981   | 399 | 275 | 287 | 330 | 427   | 894   | 1,294 | 1,725 |
| 30% Exceedance                              | 1,722 | 1,780 | 1,665 | 786   | 333 | 257 | 250 | 310 | 386   | 759   | 1,194 | 1,678 |
| 40% Exceedance                              | 1,640 | 1,715 | 1,419 | 516   | 264 | 244 | 241 | 284 | 343   | 673   | 1,116 | 1,629 |
| 50% Exceedance                              | 1,435 | 1,239 | 1,271 | 397   | 250 | 234 | 232 | 252 | 302   | 591   | 943   | 1,533 |
| 60% Exceedance                              | 357   | 974   | 782   | 282   | 238 | 225 | 228 | 231 | 281   | 442   | 797   | 662   |
| 70% Exceedance                              | 281   | 876   | 639   | 231   | 218 | 220 | 220 | 220 | 258   | 401   | 682   | 563   |
| 80% Exceedance                              | 266   | 765   | 467   | 216   | 209 | 213 | 213 | 211 | 218   | 354   | 620   | 475   |
| 90% Exceedance                              | 242   | 382   | 297   | 203   | 202 | 202 | 196 | 182 | 188   | 254   | 558   | 420   |
| Full Simulation Period Average <sup>a</sup> | 1,100 | 1,298 | 1,134 | 602   | 336 | 259 | 272 | 341 | 418   | 667   | 979   | 1,177 |
| Wet Water Years (28%)                       | 283   | 709   | 1,019 | 232   | 210 | 206 | 203 | 200 | 220   | 328   | 597   | 487   |
| Above Normal Years (14%)                    | 263   | 761   | 1,160 | 456   | 248 | 222 | 226 | 236 | 255   | 376   | 685   | 493   |
| Below Normal Years (18%)                    | 1,520 | 1,630 | 981   | 586   | 300 | 241 | 241 | 266 | 335   | 643   | 1,106 | 1,673 |
| Dry Water Years (24%)                       | 1,697 | 1,637 | 1,087 | 869   | 393 | 269 | 256 | 290 | 364   | 796   | 1,148 | 1,696 |
| Critical Water Years (16%)                  | 2,005 | 1,996 | 1,583 | 996   | 590 | 387 | 494 | 841 | 1,083 | 1,347 | 1,507 | 1,648 |

**Table F.2.5-8-9c. San Joaquin River at Jersey Point Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|-----|--------|--------|--------|--------|
| 10% Exceedance                              | -3,509 | -3,279 | -146 | 761  | 216 | -29 | 5   | 1   | -1,333 | -4,164 | -6,024 | -5,331 |
| 20% Exceedance                              | -2,916 | -1,191 | 454  | 564  | 45  | -74 | -57 | -48 | -1,142 | -3,801 | -5,797 | -4,650 |
| 30% Exceedance                              | -1,562 | -86    | 980  | 423  | -7  | -75 | -78 | -15 | -628   | -2,921 | -5,119 | -3,932 |
| 40% Exceedance                              | -739   | 633    | 907  | 165  | -62 | -77 | -73 | -10 | -287   | -2,230 | -4,547 | -3,428 |
| 50% Exceedance                              | -104   | 508    | 847  | 74   | -65 | -78 | -67 | -35 | -139   | -1,509 | -4,213 | -2,985 |
| 60% Exceedance                              | -661   | 438    | 435  | -24  | -67 | -74 | -59 | -36 | -36    | -1,107 | -3,433 | -2,549 |
| 70% Exceedance                              | -347   | 450    | 319  | -57  | -77 | -58 | -46 | -33 | -6     | -546   | -2,359 | -1,271 |
| 80% Exceedance                              | -136   | 411    | 179  | -55  | -44 | -48 | -19 | -13 | -26    | -154   | -784   | -595   |
| 90% Exceedance                              | -97    | 63     | 31   | -40  | -17 | -8  | 8   | 32  | -11    | -97    | -185   | -140   |
| Full Simulation Period Average <sup>a</sup> | -1,293 | -488   | 226  | 121  | -23 | -52 | -31 | -33 | -515   | -1,912 | -3,573 | -2,765 |
| Wet Water Years (28%)                       | -271   | 302    | 692  | -42  | -40 | -31 | -10 | 5   | -25    | -437   | -1,267 | -793   |
| Above Normal Years (14%)                    | -808   | 152    | 785  | 118  | -52 | -64 | -46 | -26 | -114   | -1,195 | -3,009 | -2,227 |
| Below Normal Years (18%)                    | -764   | 294    | 311  | 224  | -28 | -77 | -60 | -33 | -444   | -2,186 | -4,318 | -2,693 |
| Dry Water Years (24%)                       | -1,570 | -557   | -49  | 473  | 56  | -62 | -69 | -72 | -739   | -2,628 | -4,842 | -3,812 |
| Critical Water Years (16%)                  | -3,876 | -3,431 | -868 | -234 | -83 | -36 | 37  | -47 | -1,466 | -3,737 | -5,363 | -5,196 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-8-10a. San Joaquin River at Jersey Point Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 5,457 | 5,316 | 2,082 | 637   | 409 | 371 | 355 | 623 | 2,415 | 5,505 | 7,546 | 7,095 |
| 20% Exceedance                              | 4,716 | 3,041 | 1,328 | 417   | 354 | 349 | 344 | 378 | 1,568 | 4,695 | 7,091 | 6,376 |
| 30% Exceedance                              | 3,284 | 1,867 | 684   | 363   | 340 | 332 | 327 | 325 | 1,014 | 3,680 | 6,313 | 5,610 |
| 40% Exceedance                              | 2,379 | 1,081 | 513   | 351   | 325 | 322 | 314 | 294 | 629   | 2,902 | 5,662 | 5,057 |
| 50% Exceedance                              | 1,539 | 731   | 424   | 323   | 315 | 312 | 299 | 286 | 441   | 2,100 | 5,156 | 4,518 |
| 60% Exceedance                              | 1,018 | 537   | 347   | 305   | 305 | 299 | 287 | 267 | 317   | 1,549 | 4,230 | 3,211 |
| 70% Exceedance                              | 628   | 426   | 320   | 288   | 295 | 277 | 266 | 253 | 264   | 946   | 3,041 | 1,834 |
| 80% Exceedance                              | 402   | 353   | 289   | 271   | 253 | 262 | 232 | 224 | 244   | 509   | 1,404 | 1,070 |
| 90% Exceedance                              | 339   | 320   | 266   | 243   | 219 | 209 | 187 | 149 | 199   | 351   | 744   | 561   |
| Full Simulation Period Average <sup>a</sup> | 2,393 | 1,787 | 909   | 481   | 360 | 311 | 303 | 374 | 933   | 2,579 | 4,552 | 3,942 |
| Wet Water Years (28%)                       | 555   | 408   | 327   | 274   | 250 | 237 | 213 | 195 | 245   | 765   | 1,864 | 1,280 |
| Above Normal Years (14%)                    | 1,071 | 609   | 374   | 338   | 300 | 286 | 273 | 262 | 370   | 1,572 | 3,695 | 2,721 |
| Below Normal Years (18%)                    | 2,284 | 1,336 | 670   | 362   | 327 | 319 | 301 | 299 | 779   | 2,829 | 5,423 | 4,366 |
| Dry Water Years (24%)                       | 3,267 | 2,193 | 1,136 | 396   | 337 | 331 | 326 | 362 | 1,103 | 3,424 | 5,990 | 5,508 |
| Critical Water Years (16%)                  | 5,881 | 5,427 | 2,450 | 1,230 | 673 | 423 | 457 | 888 | 2,549 | 5,084 | 6,870 | 6,844 |

**Table F.2.5-8-10b. San Joaquin River at Jersey Point Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,921 | 2,049 | 1,960 | 1,519 | 710 | 337 | 369 | 654 | 1,105 | 1,283 | 1,529 | 1,768 |
| 20% Exceedance                              | 1,793 | 1,900 | 1,759 | 1,143 | 469 | 282 | 285 | 308 | 424   | 914   | 1,305 | 1,729 |
| 30% Exceedance                              | 1,707 | 1,788 | 1,683 | 812   | 341 | 259 | 253 | 284 | 375   | 781   | 1,208 | 1,649 |
| 40% Exceedance                              | 1,650 | 1,720 | 1,409 | 529   | 272 | 244 | 242 | 268 | 343   | 681   | 1,097 | 1,588 |
| 50% Exceedance                              | 1,493 | 1,299 | 1,255 | 408   | 250 | 235 | 236 | 257 | 302   | 585   | 881   | 1,515 |
| 60% Exceedance                              | 354   | 949   | 787   | 290   | 238 | 225 | 231 | 235 | 286   | 449   | 750   | 587   |
| 70% Exceedance                              | 282   | 881   | 645   | 235   | 219 | 221 | 223 | 223 | 261   | 383   | 647   | 529   |
| 80% Exceedance                              | 266   | 791   | 479   | 217   | 209 | 213 | 216 | 217 | 225   | 347   | 583   | 463   |
| 90% Exceedance                              | 247   | 429   | 326   | 204   | 202 | 204 | 200 | 181 | 188   | 263   | 531   | 413   |
| Full Simulation Period Average <sup>a</sup> | 1,093 | 1,315 | 1,140 | 631   | 351 | 261 | 276 | 342 | 425   | 673   | 959   | 1,156 |
| Wet Water Years (28%)                       | 280   | 714   | 1,025 | 240   | 210 | 207 | 205 | 199 | 220   | 322   | 566   | 464   |
| Above Normal Years (14%)                    | 264   | 787   | 1,168 | 461   | 248 | 221 | 233 | 239 | 261   | 367   | 620   | 458   |
| Below Normal Years (18%)                    | 1,539 | 1,680 | 995   | 593   | 306 | 242 | 243 | 255 | 337   | 637   | 1,091 | 1,654 |
| Dry Water Years (24%)                       | 1,678 | 1,629 | 1,059 | 915   | 429 | 274 | 256 | 281 | 362   | 802   | 1,113 | 1,662 |
| Critical Water Years (16%)                  | 1,966 | 2,025 | 1,630 | 1,084 | 620 | 391 | 503 | 872 | 1,120 | 1,402 | 1,565 | 1,660 |

**Table F.2.5-8-10c. San Joaquin River at Jersey Point Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec  | Jan  | Feb | Mar | Apr | May | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|------|------|-----|-----|-----|-----|--------|--------|--------|--------|
| 10% Exceedance                              | -3,536 | -3,268 | -122 | 882  | 301 | -34 | 14  | 31  | -1,310 | -4,222 | -6,017 | -5,327 |
| 20% Exceedance                              | -2,923 | -1,142 | 431  | 725  | 115 | -67 | -60 | -70 | -1,144 | -3,781 | -5,785 | -4,646 |
| 30% Exceedance                              | -1,576 | -79    | 999  | 449  | 0   | -72 | -75 | -40 | -639   | -2,899 | -5,105 | -3,962 |
| 40% Exceedance                              | -730   | 639    | 897  | 178  | -54 | -78 | -71 | -26 | -287   | -2,221 | -4,566 | -3,468 |
| 50% Exceedance                              | -46    | 568    | 831  | 85   | -65 | -78 | -63 | -29 | -138   | -1,515 | -4,275 | -3,003 |
| 60% Exceedance                              | -664   | 412    | 440  | -15  | -67 | -74 | -57 | -33 | -31    | -1,100 | -3,480 | -2,624 |
| 70% Exceedance                              | -346   | 455    | 325  | -53  | -76 | -56 | -44 | -30 | -3     | -564   | -2,394 | -1,306 |
| 80% Exceedance                              | -136   | 438    | 190  | -55  | -43 | -49 | -15 | -7  | -20    | -162   | -821   | -608   |
| 90% Exceedance                              | -93    | 109    | 59   | -40  | -17 | -6  | 12  | 32  | -11    | -88    | -213   | -148   |
| Full Simulation Period Average <sup>a</sup> | -1,301 | -472   | 231  | 150  | -9  | -50 | -27 | -32 | -508   | -1,906 | -3,593 | -2,786 |
| Wet Water Years (28%)                       | -275   | 307    | 698  | -34  | -40 | -30 | -8  | 4   | -24    | -443   | -1,298 | -817   |
| Above Normal Years (14%)                    | -807   | 177    | 794  | 123  | -53 | -64 | -39 | -23 | -109   | -1,204 | -3,075 | -2,263 |
| Below Normal Years (18%)                    | -745   | 343    | 325  | 231  | -21 | -77 | -57 | -43 | -442   | -2,193 | -4,332 | -2,712 |
| Dry Water Years (24%)                       | -1,589 | -565   | -77  | 519  | 92  | -57 | -70 | -81 | -741   | -2,622 | -4,877 | -3,845 |
| Critical Water Years (16%)                  | -3,915 | -3,402 | -820 | -146 | -53 | -31 | 46  | -17 | -1,429 | -3,682 | -5,305 | -5,185 |

<sup>a</sup> Based on the 100-year simulation period.

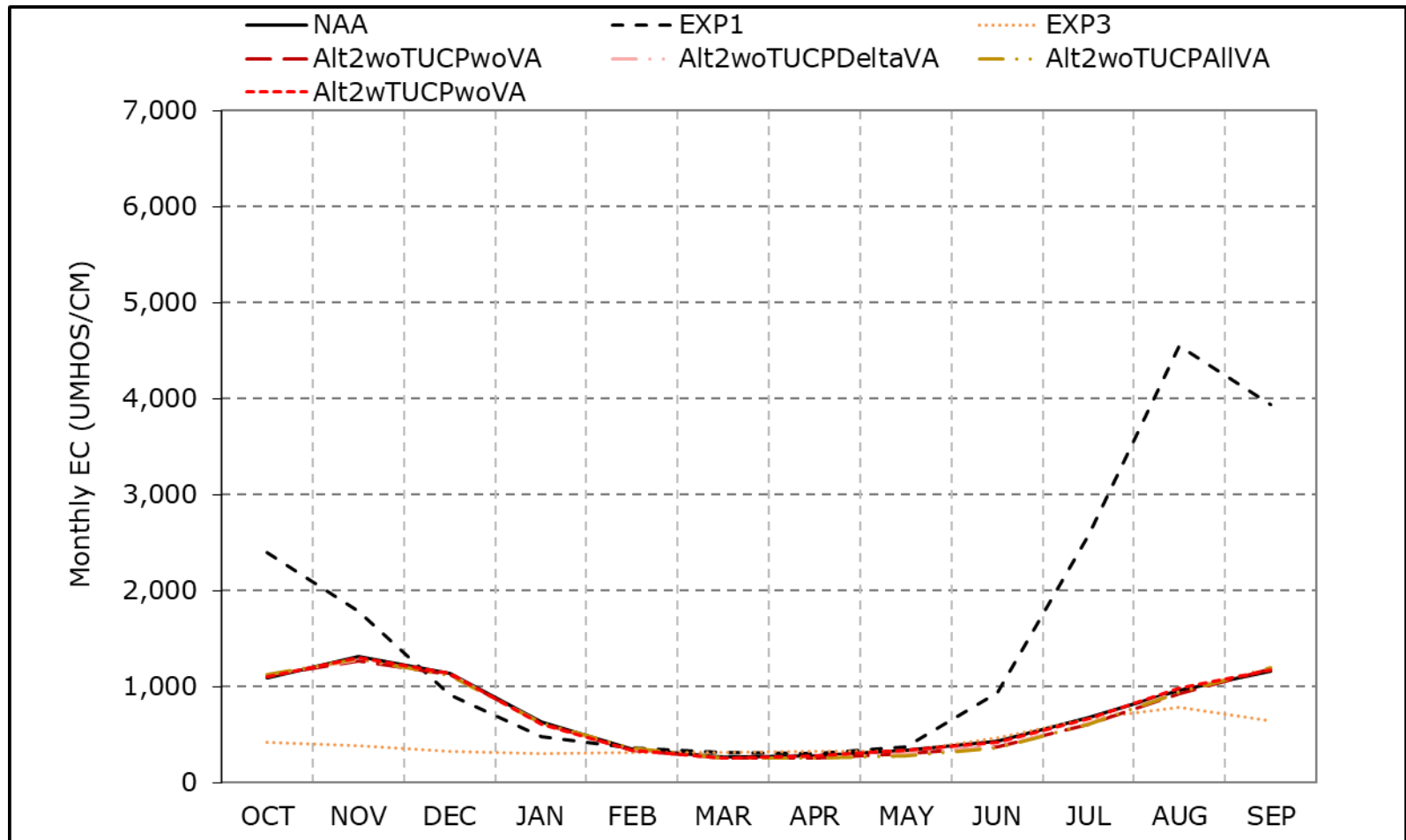
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-8-1. San Joaquin River at Jersey Point Salinity, Long-Term Average EC**

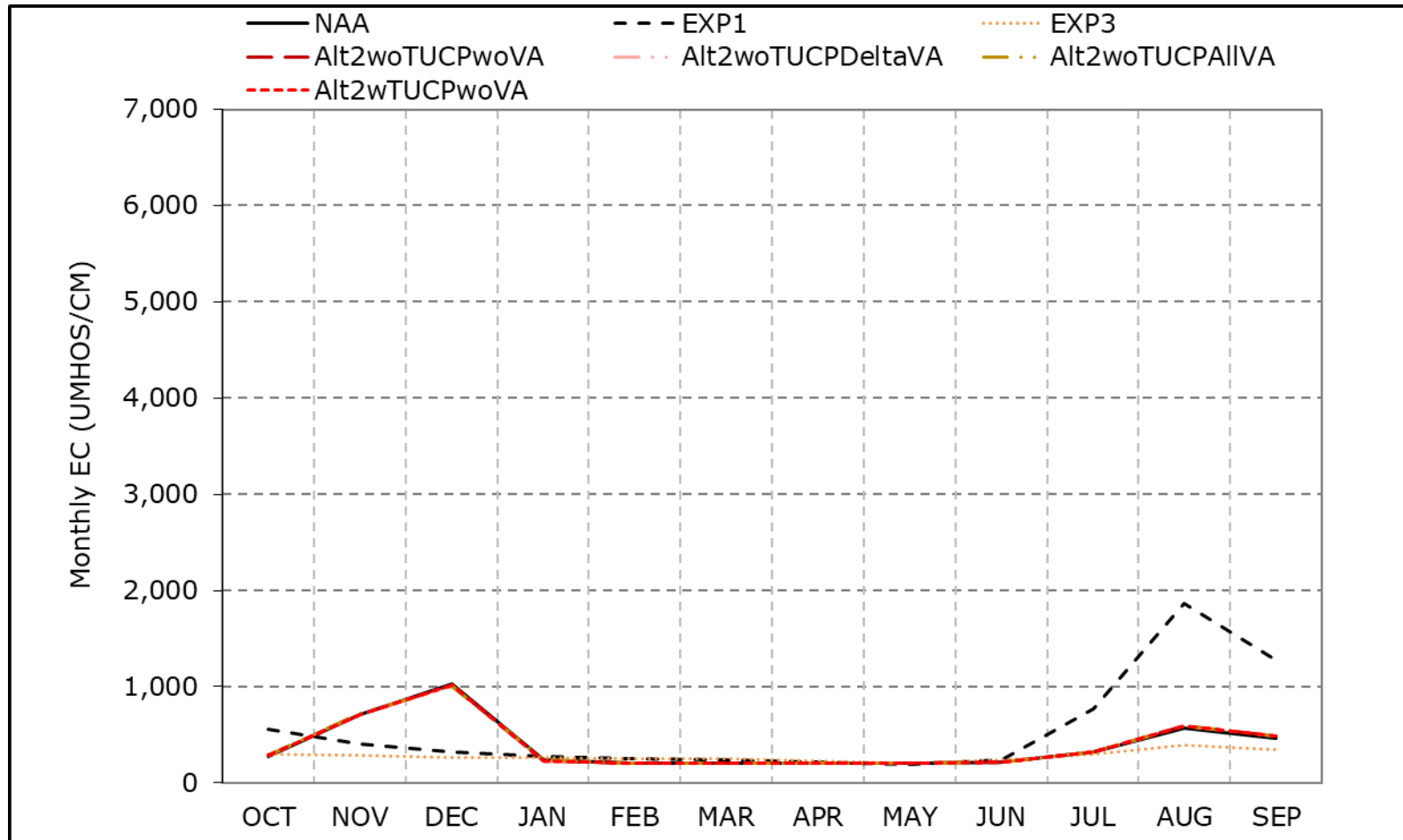


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-2. San Joaquin River at Jersey Point Salinity, Wet Year Average EC**

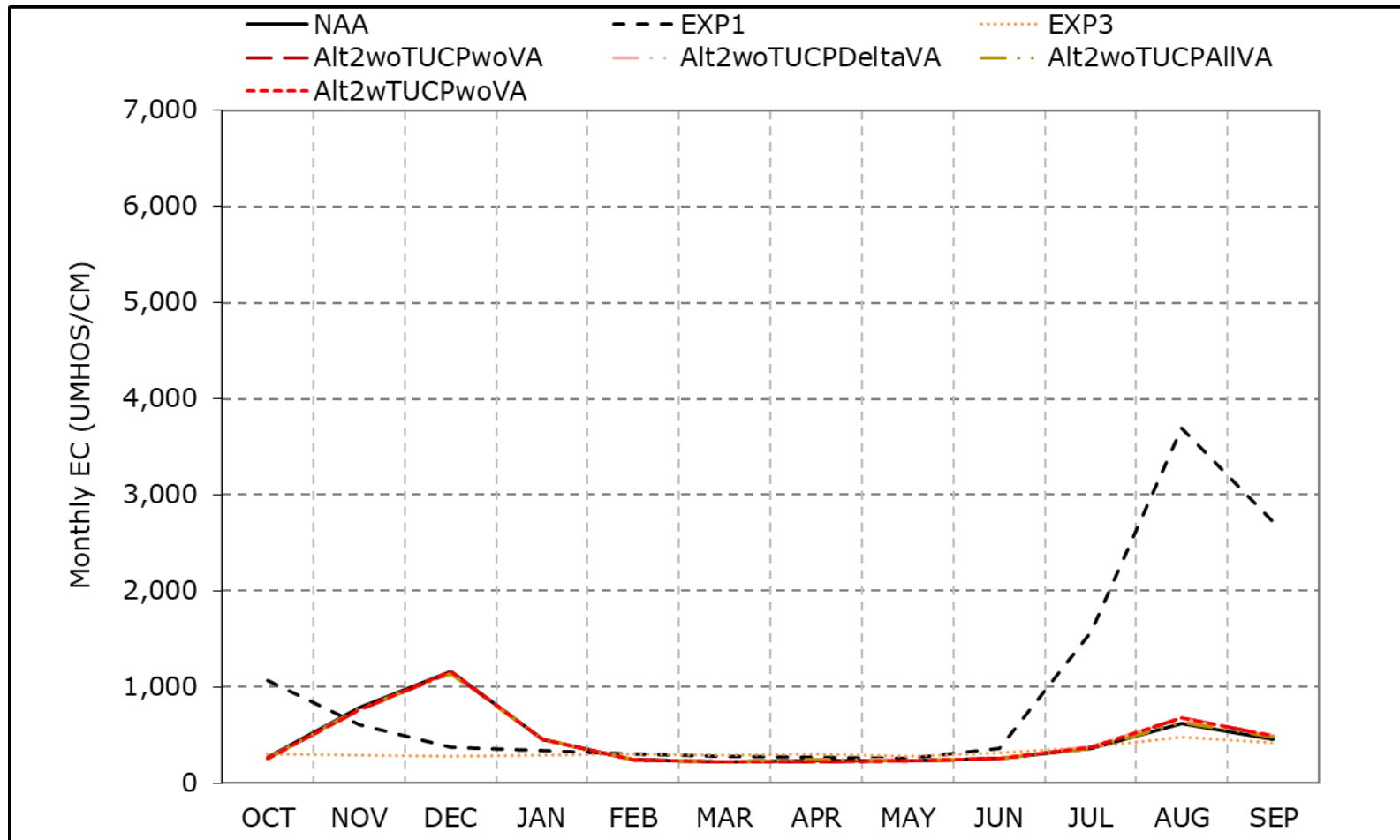


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-3. San Joaquin River at Jersey Point Salinity, Above Normal Year Average EC**

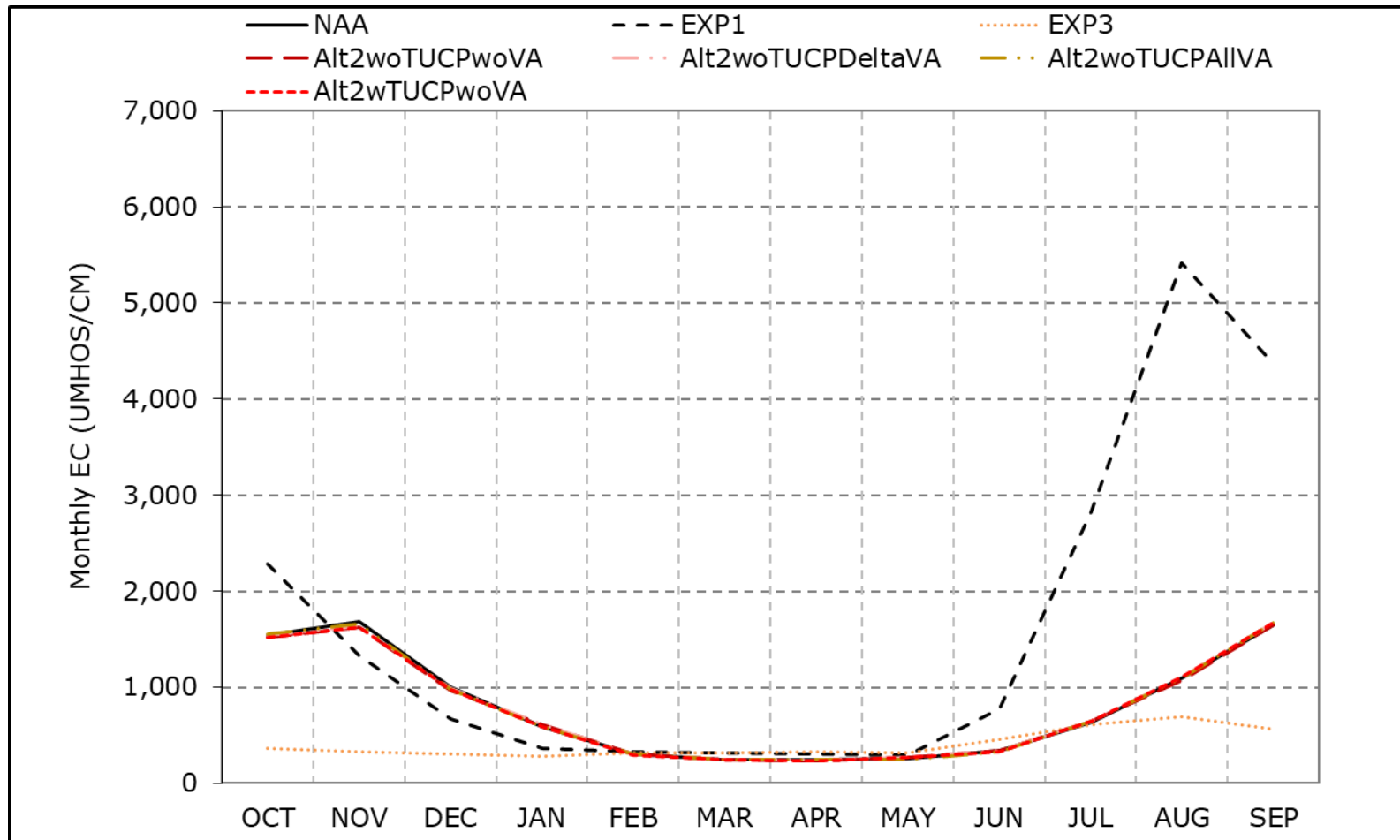


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-4. San Joaquin River at Jersey Point Salinity, Below Normal Year Average EC**

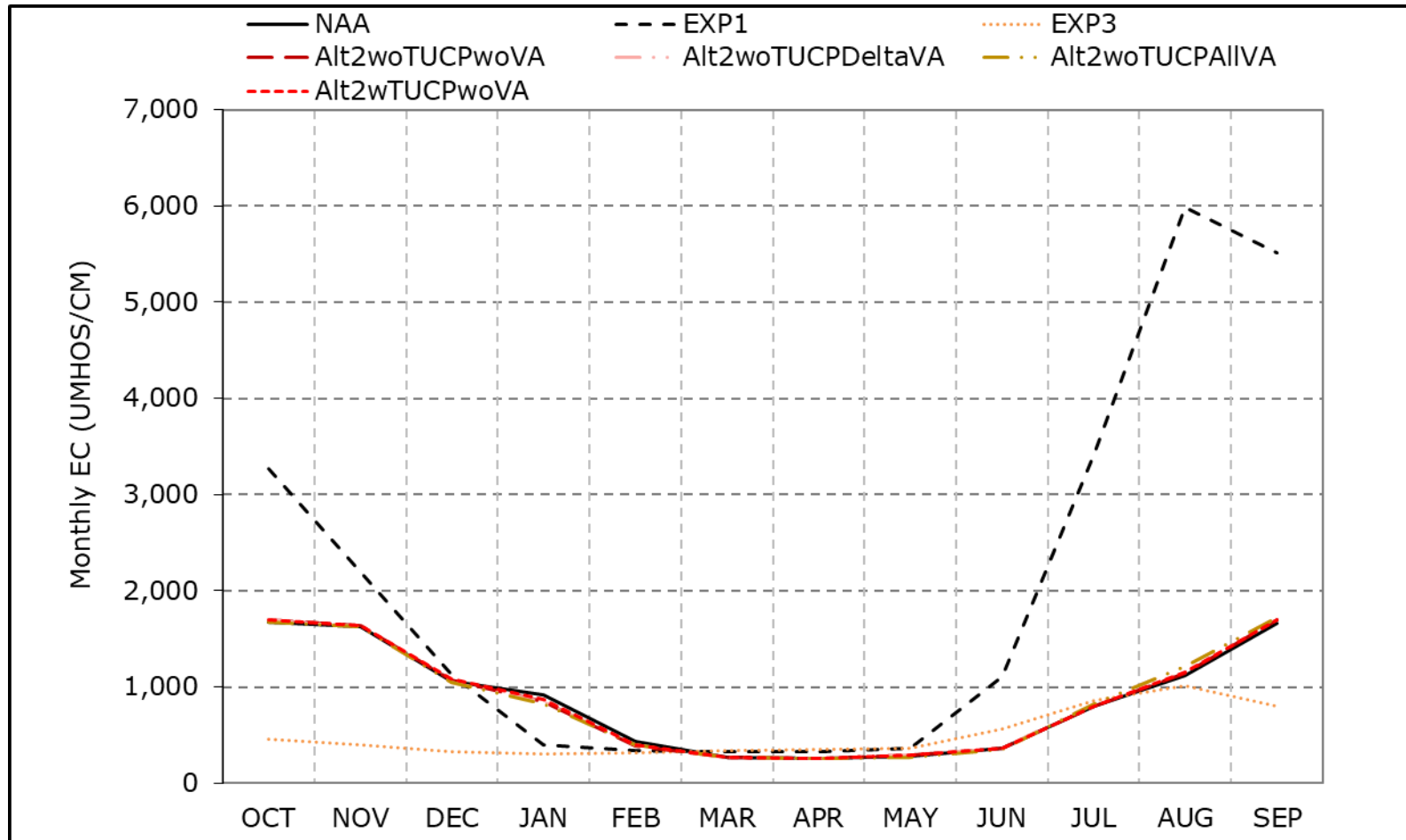


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-5. San Joaquin River at Jersey Point Salinity, Dry Year Average EC**

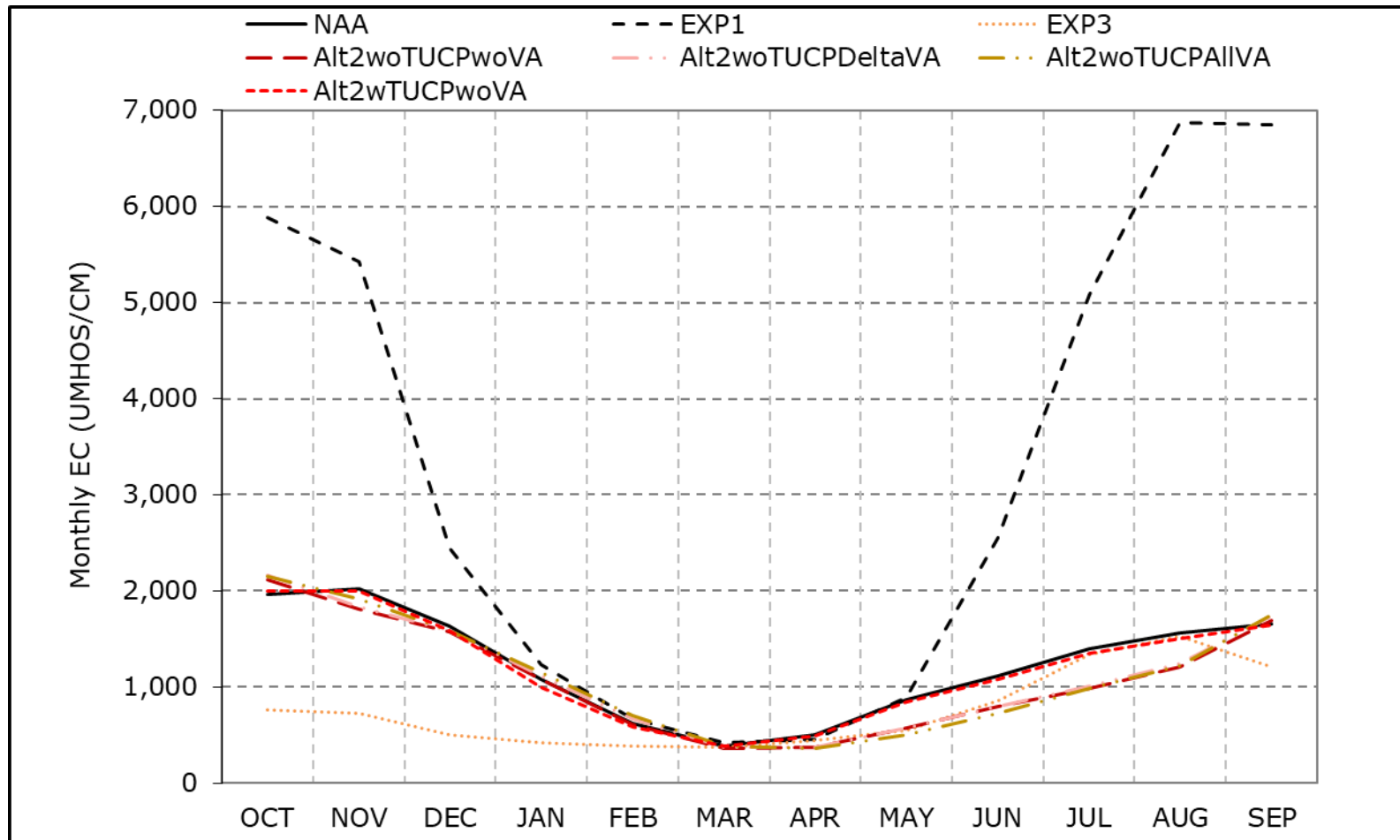


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-6. San Joaquin River at Jersey Point Salinity, Critical Year Average EC**

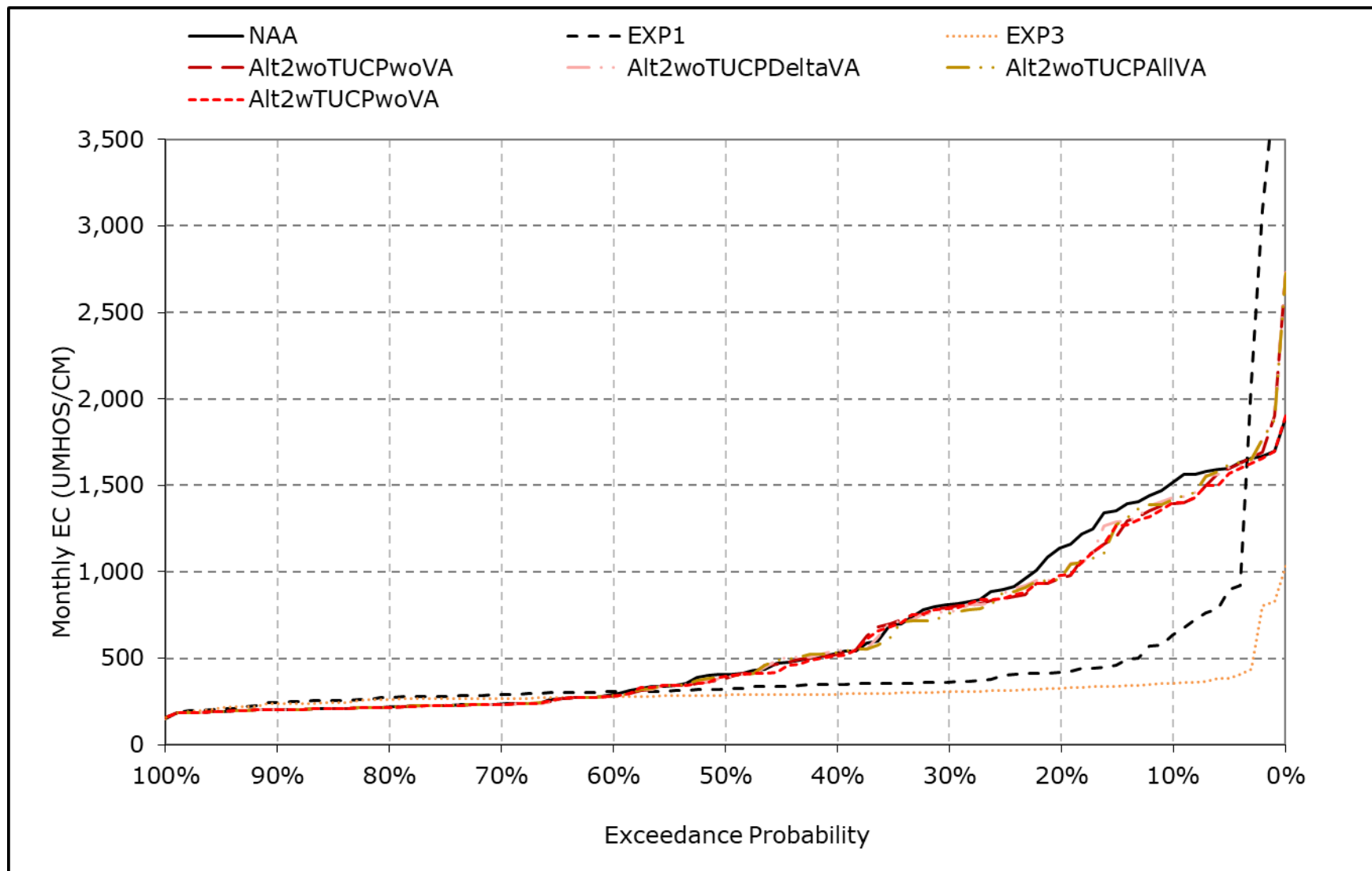


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

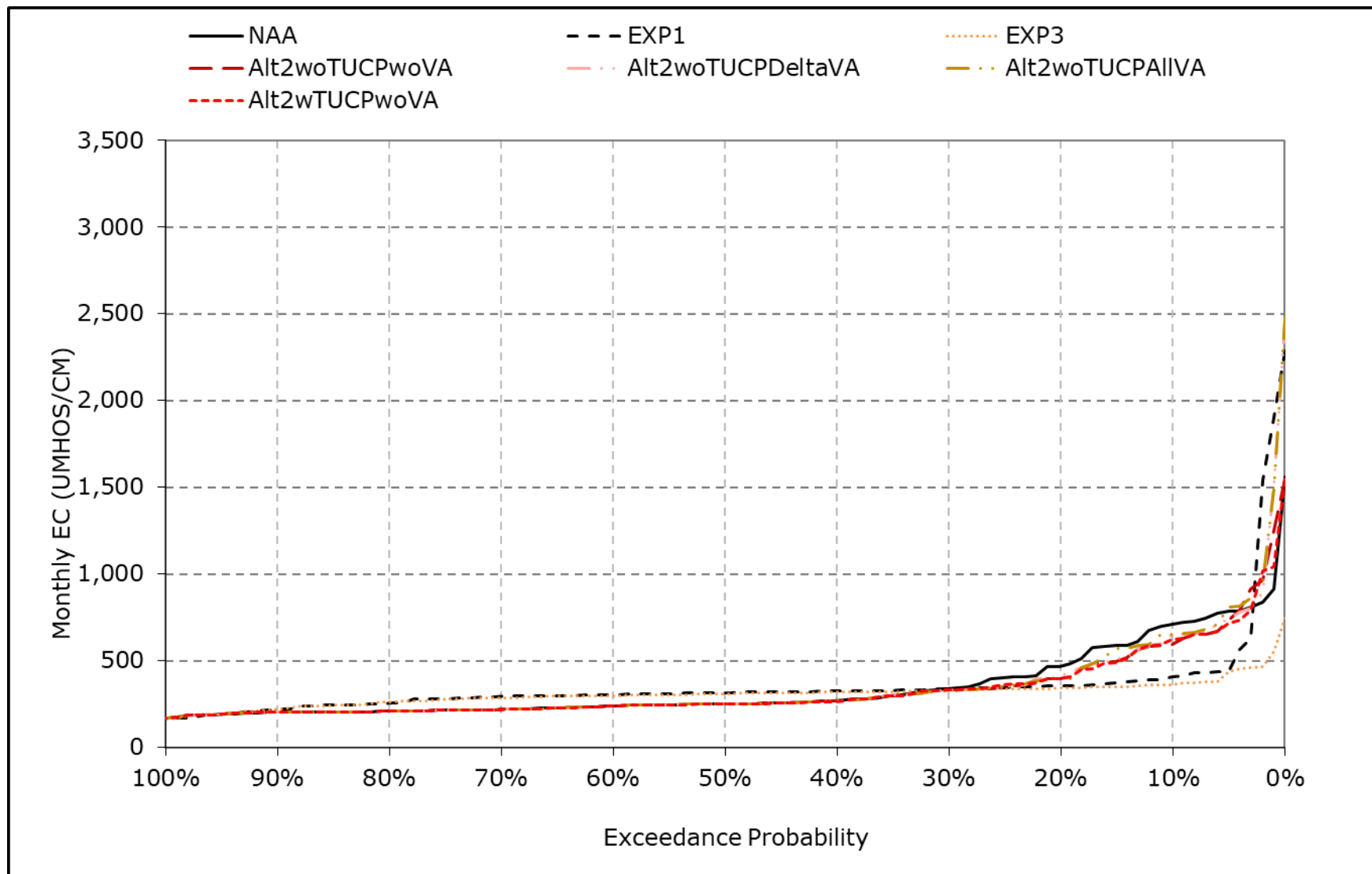
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-7. San Joaquin River at Jersey Point Salinity, January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

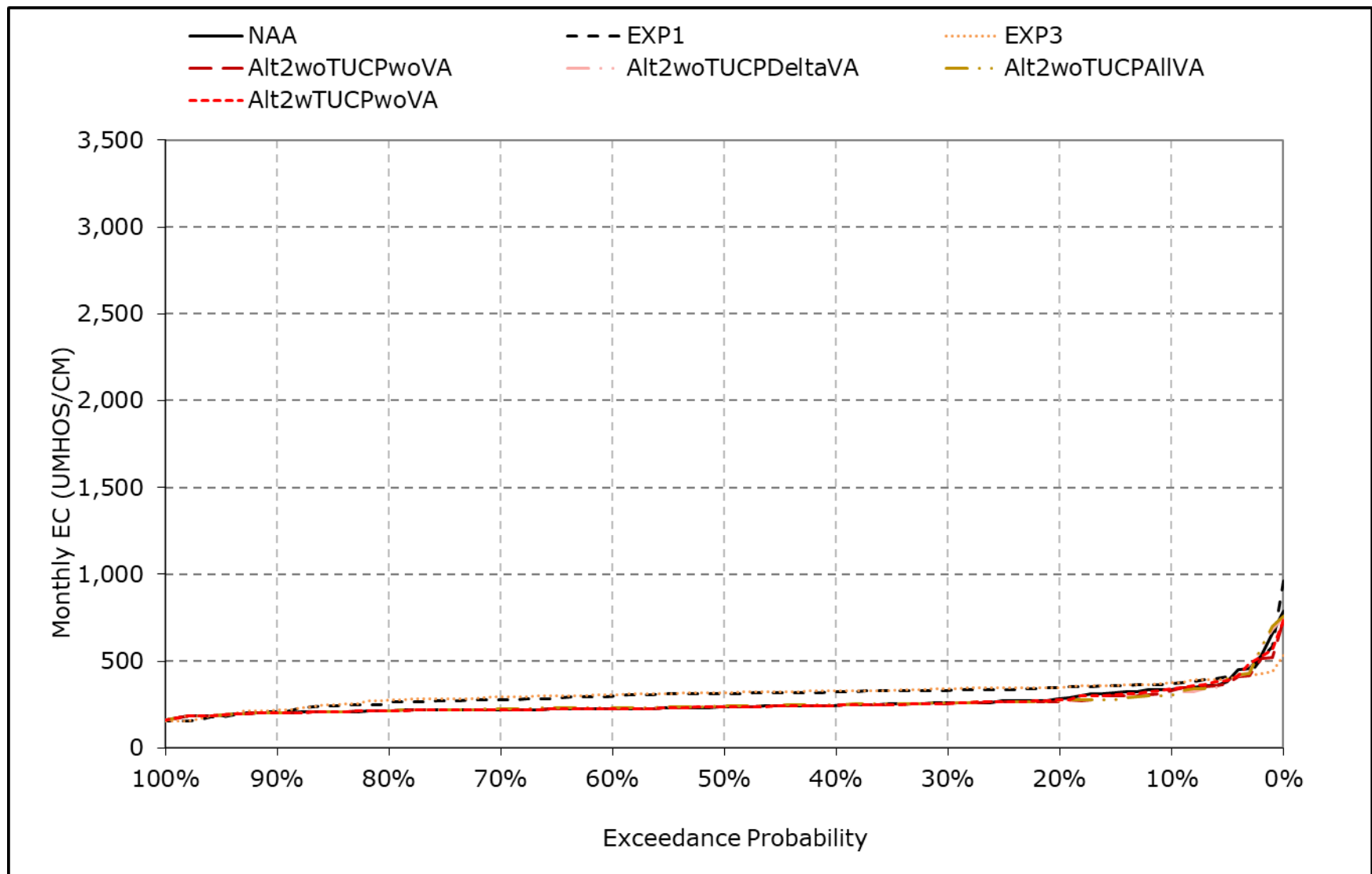
**Figure F.2.5-8-8. San Joaquin River at Jersey Point Salinity, February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

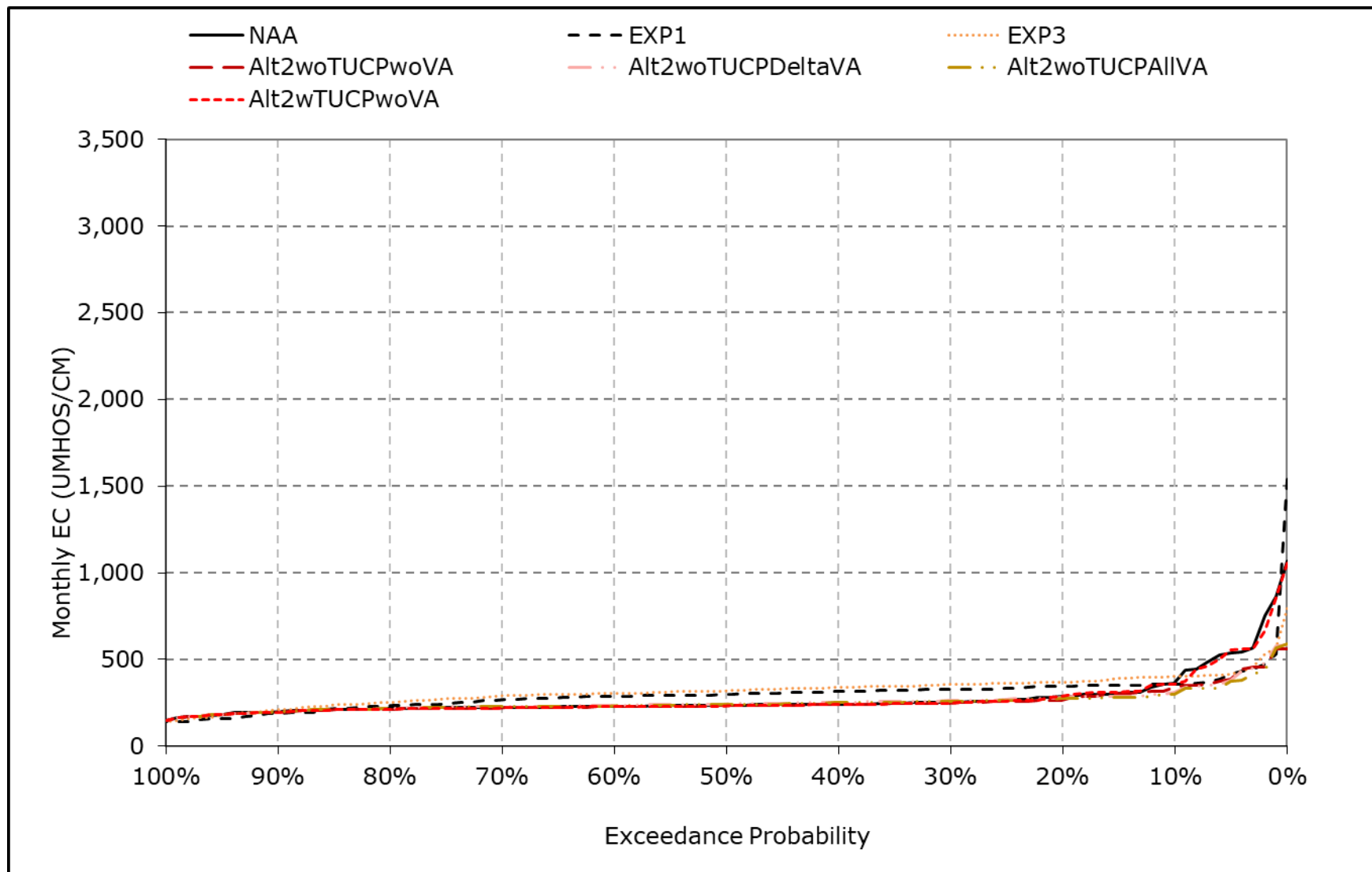


**Figure F.2.5-8-9. San Joaquin River at Jersey Point Salinity, March EC**



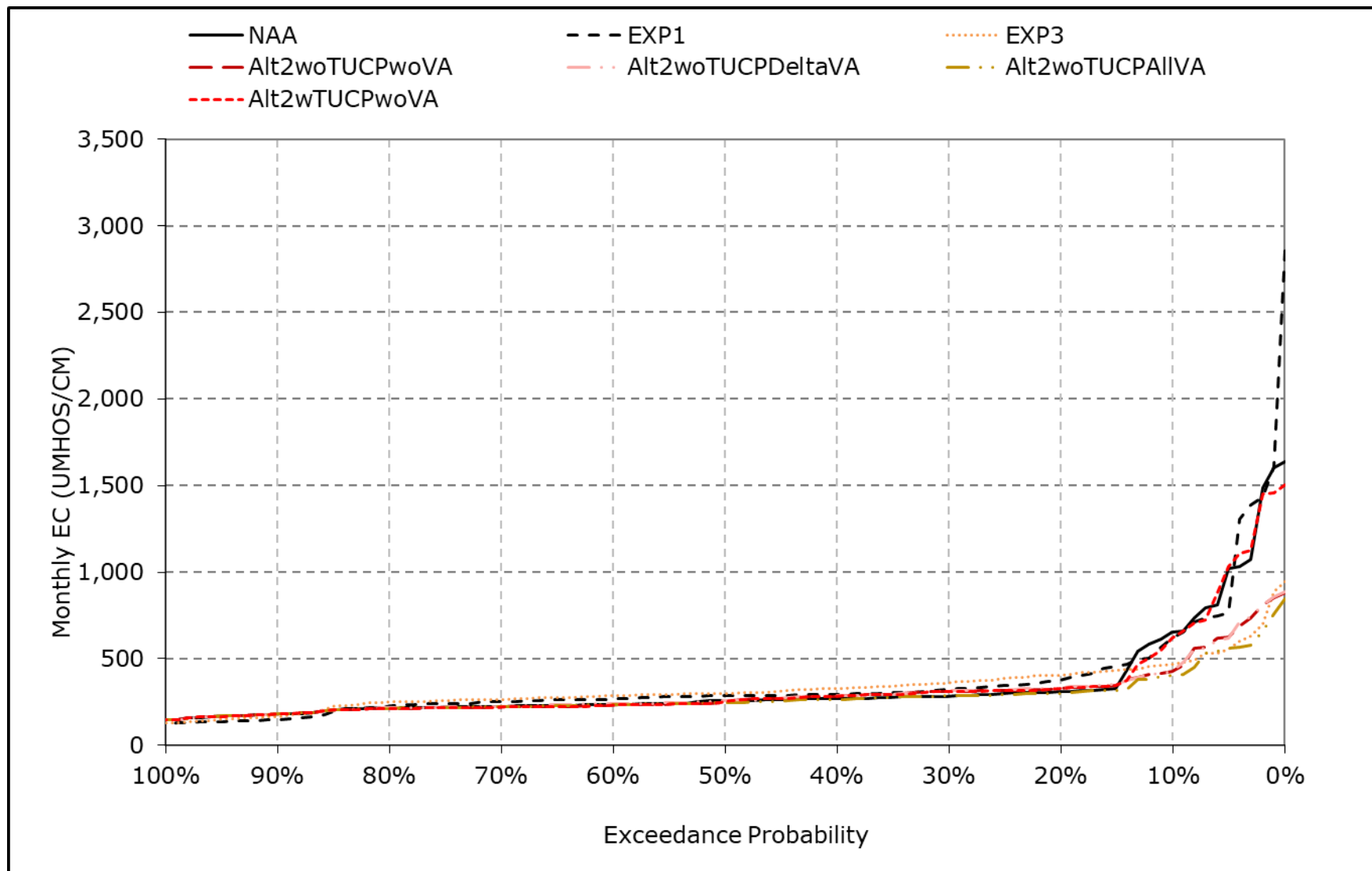
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-10. San Joaquin River at Jersey Point Salinity, April EC**



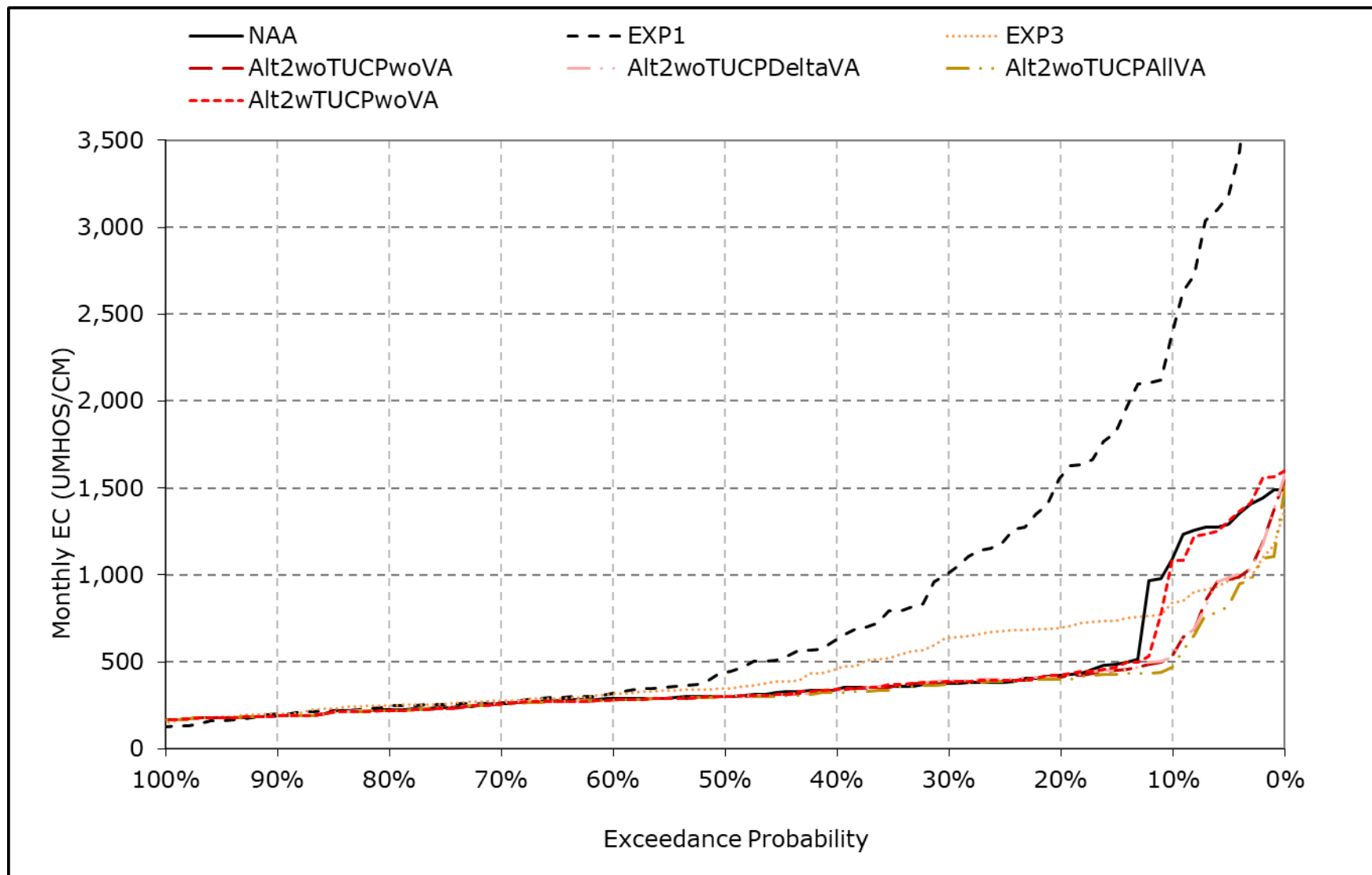
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-11. San Joaquin River at Jersey Point Salinity, May EC**



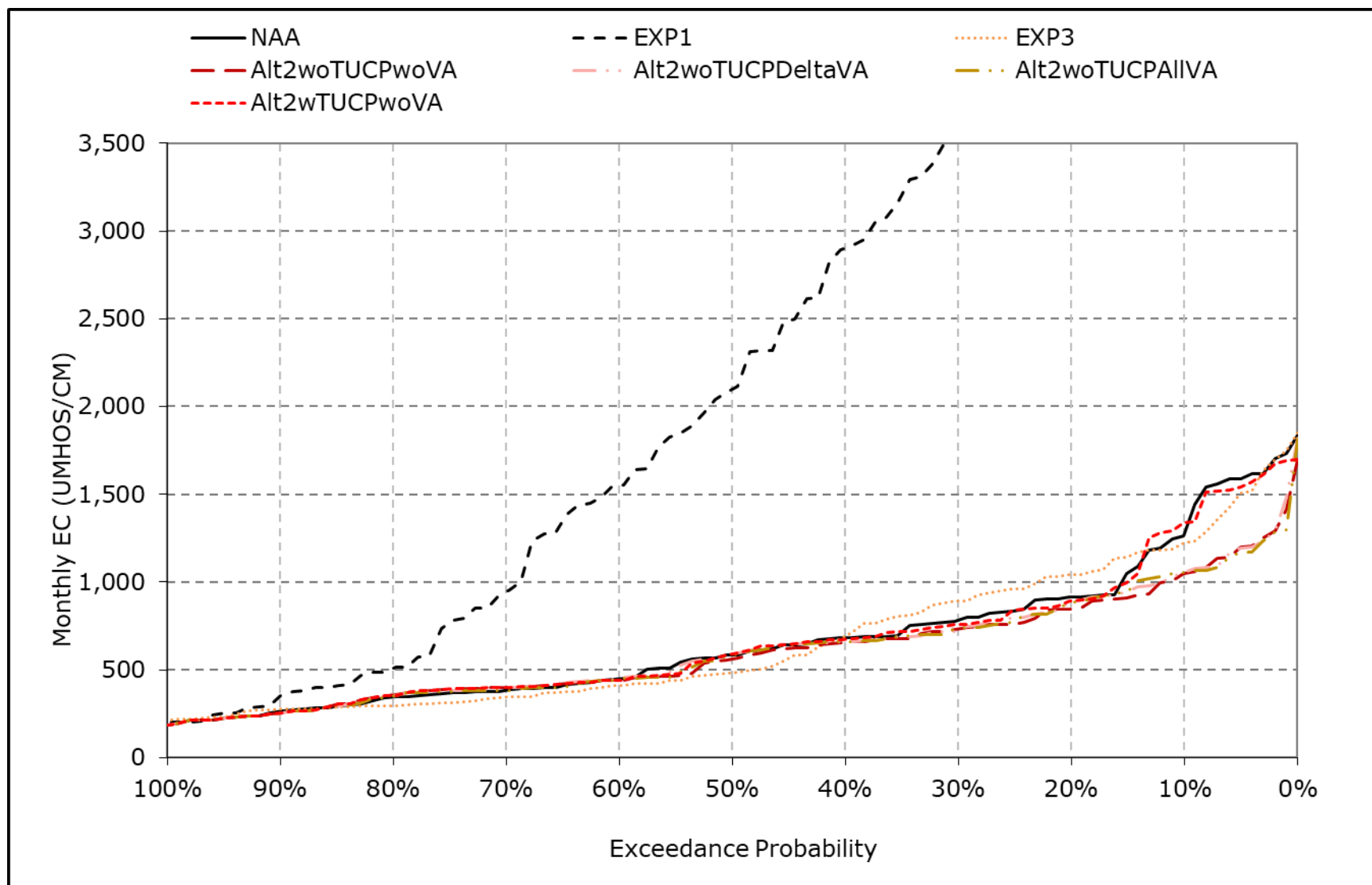
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-12. San Joaquin River at Jersey Point Salinity, June EC**



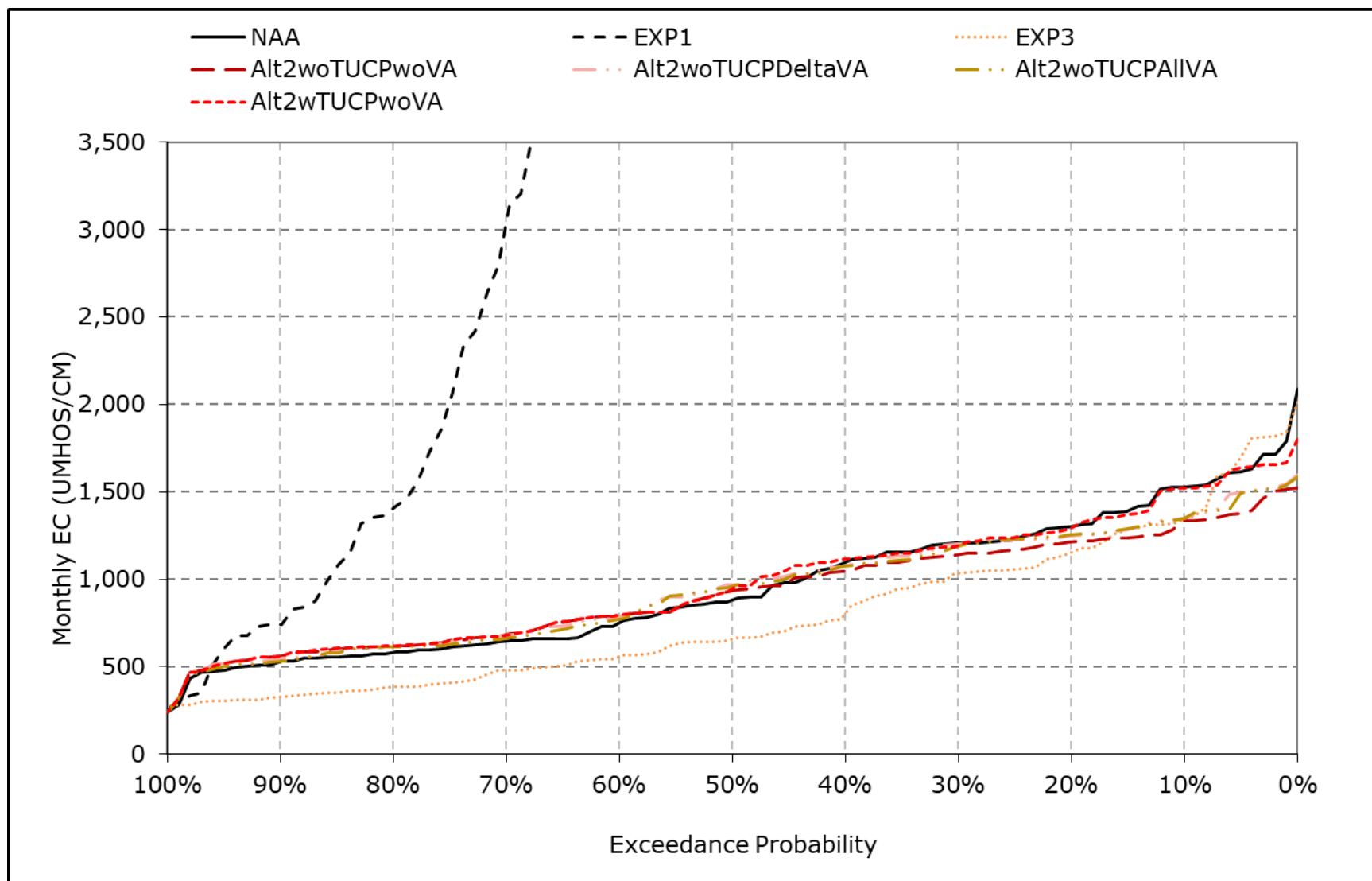
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-13. San Joaquin River at Jersey Point Salinity, July EC**



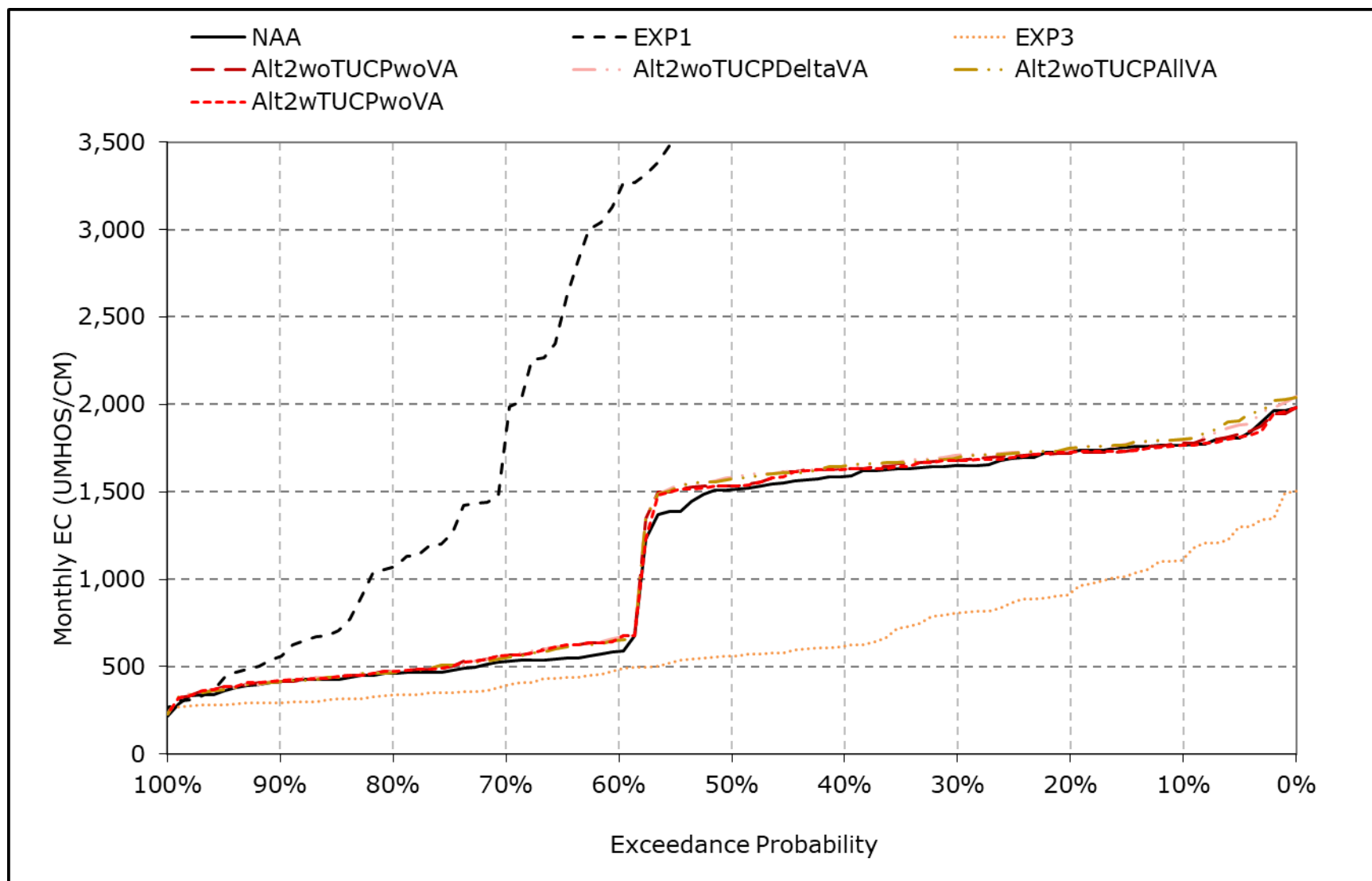
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-14. San Joaquin River at Jersey Point Salinity, August EC**



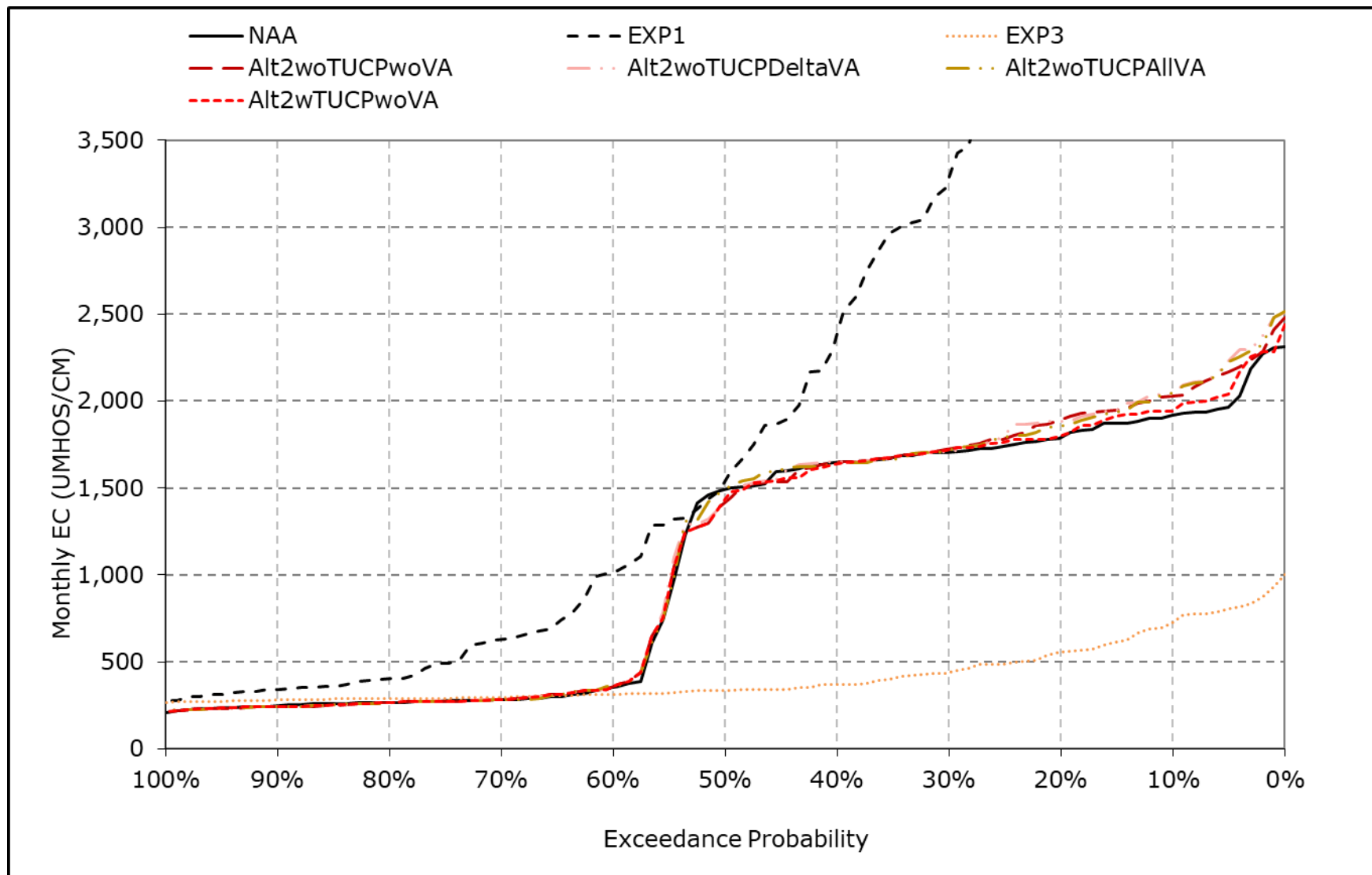
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-15. San Joaquin River at Jersey Point Salinity, September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

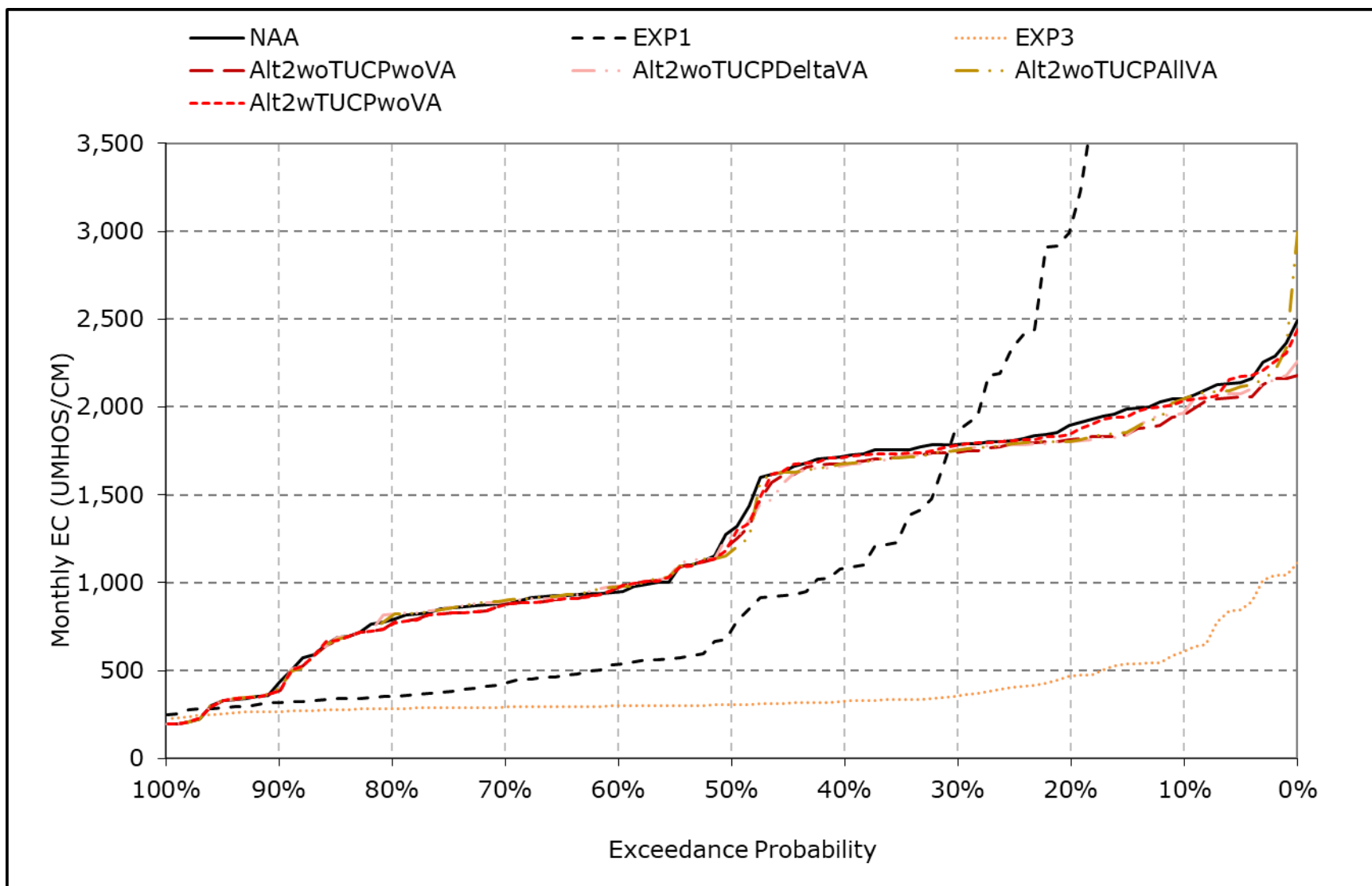
**Figure F.2.5-8-16. San Joaquin River at Jersey Point Salinity, October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

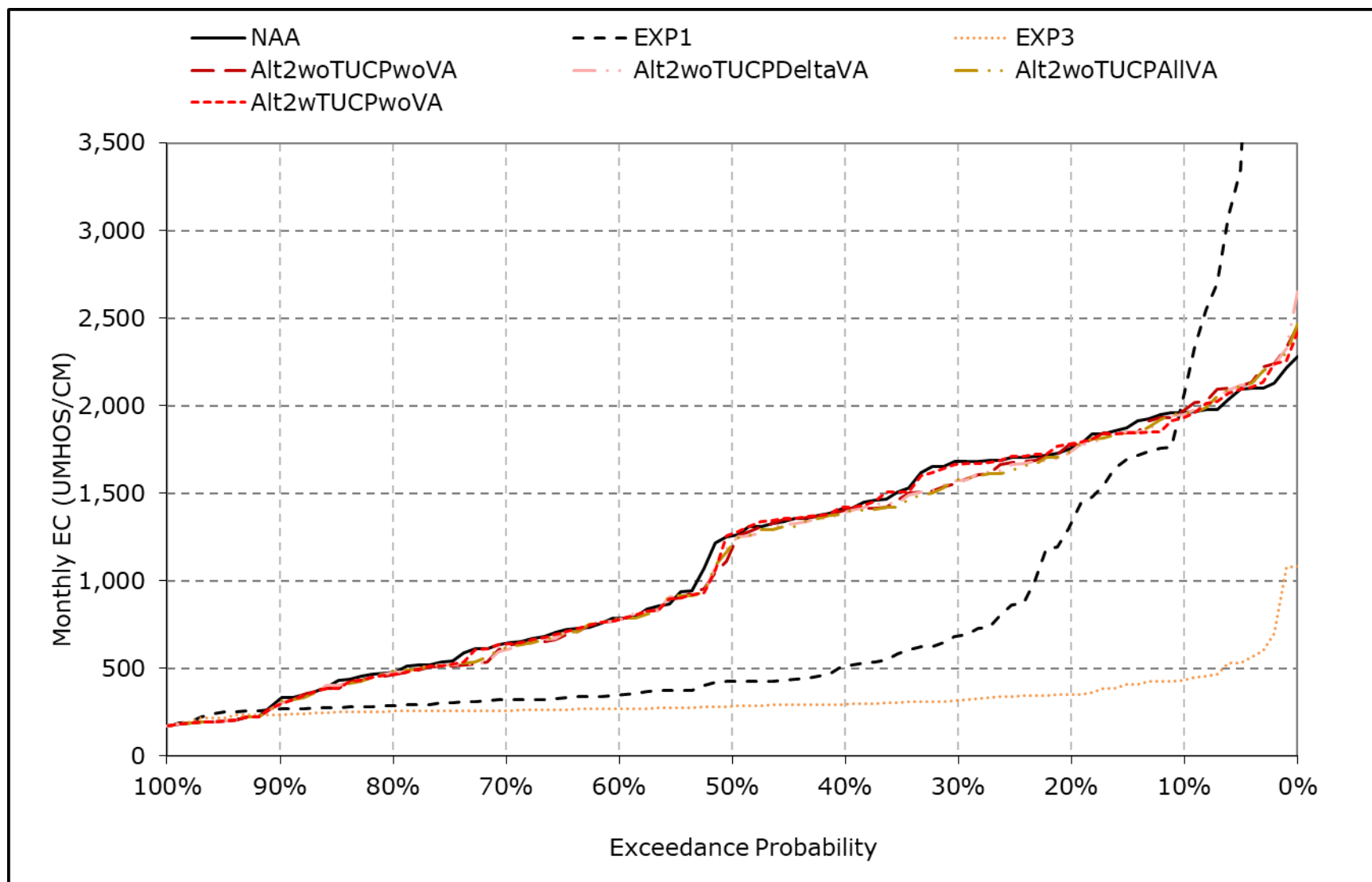


**Figure F.2.5-8-17. San Joaquin River at Jersey Point Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-8-18. San Joaquin River at Jersey Point Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-9-1a. Old River at Rock Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 826 | 940 | 962 | 935 | 580 | 350 | 368 | 387 | 465 | 628 | 674 | 755 |
| 20% Exceedance                              | 778 | 851 | 923 | 745 | 493 | 322 | 348 | 331 | 276 | 369 | 528 | 697 |
| 30% Exceedance                              | 751 | 751 | 885 | 604 | 384 | 305 | 314 | 309 | 266 | 335 | 471 | 657 |
| 40% Exceedance                              | 719 | 714 | 846 | 539 | 329 | 294 | 308 | 298 | 262 | 317 | 430 | 619 |
| 50% Exceedance                              | 652 | 647 | 778 | 445 | 308 | 284 | 301 | 287 | 254 | 299 | 376 | 576 |
| 60% Exceedance                              | 234 | 338 | 580 | 328 | 285 | 274 | 288 | 278 | 246 | 259 | 330 | 343 |
| 70% Exceedance                              | 229 | 324 | 503 | 283 | 268 | 266 | 278 | 268 | 240 | 243 | 294 | 318 |
| 80% Exceedance                              | 223 | 300 | 438 | 256 | 250 | 256 | 268 | 258 | 229 | 234 | 270 | 295 |
| 90% Exceedance                              | 218 | 261 | 314 | 229 | 229 | 237 | 247 | 218 | 193 | 219 | 257 | 279 |
| Full Simulation Period Average <sup>a</sup> | 524 | 569 | 684 | 495 | 367 | 295 | 305 | 303 | 290 | 336 | 418 | 510 |
| Wet Water Years (28%)                       | 224 | 299 | 579 | 292 | 282 | 253 | 255 | 230 | 214 | 231 | 273 | 292 |
| Above Normal Years (14%)                    | 224 | 301 | 658 | 433 | 301 | 280 | 318 | 291 | 244 | 243 | 285 | 307 |
| Below Normal Years (18%)                    | 687 | 687 | 666 | 509 | 332 | 289 | 310 | 293 | 254 | 304 | 421 | 642 |
| Dry Water Years (24%)                       | 754 | 726 | 686 | 628 | 421 | 301 | 300 | 295 | 261 | 343 | 476 | 622 |
| Critical Water Years (16%)                  | 824 | 950 | 922 | 690 | 533 | 382 | 383 | 461 | 547 | 626 | 702 | 751 |

**Table F.2.5-9-1b. Old River at Rock Slough Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 866 | 949 | 941 | 864 | 579 | 378 | 343 | 335 | 360 | 469 | 557 | 698 |
| 20% Exceedance                              | 823 | 829 | 913 | 757 | 453 | 320 | 315 | 305 | 279 | 356 | 499 | 668 |
| 30% Exceedance                              | 750 | 749 | 864 | 616 | 373 | 307 | 301 | 287 | 271 | 331 | 464 | 651 |
| 40% Exceedance                              | 715 | 706 | 826 | 507 | 331 | 294 | 292 | 279 | 264 | 314 | 433 | 630 |
| 50% Exceedance                              | 672 | 587 | 758 | 426 | 317 | 287 | 284 | 273 | 252 | 295 | 383 | 580 |
| 60% Exceedance                              | 245 | 342 | 556 | 329 | 289 | 276 | 276 | 259 | 240 | 256 | 347 | 360 |
| 70% Exceedance                              | 232 | 317 | 498 | 286 | 272 | 263 | 269 | 251 | 236 | 245 | 307 | 335 |
| 80% Exceedance                              | 221 | 295 | 429 | 255 | 254 | 256 | 257 | 238 | 225 | 236 | 279 | 307 |
| 90% Exceedance                              | 217 | 255 | 307 | 229 | 231 | 231 | 221 | 198 | 192 | 219 | 267 | 284 |
| Full Simulation Period Average <sup>a</sup> | 539 | 568 | 669 | 496 | 365 | 296 | 286 | 271 | 270 | 312 | 399 | 507 |
| Wet Water Years (28%)                       | 226 | 299 | 573 | 284 | 282 | 248 | 238 | 212 | 211 | 232 | 280 | 301 |
| Above Normal Years (14%)                    | 226 | 296 | 648 | 428 | 310 | 281 | 283 | 263 | 240 | 239 | 303 | 324 |
| Below Normal Years (18%)                    | 699 | 673 | 653 | 520 | 334 | 290 | 289 | 270 | 253 | 305 | 427 | 632 |
| Dry Water Years (24%)                       | 764 | 735 | 691 | 619 | 406 | 300 | 291 | 283 | 263 | 344 | 486 | 641 |
| Critical Water Years (16%)                  | 885 | 948 | 850 | 712 | 533 | 392 | 360 | 364 | 428 | 477 | 531 | 684 |

**Table F.2.5-9-1c. Old River at Rock Slough Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|
| 10% Exceedance                              | 40  | 10  | -21 | -71 | -1  | 27  | -25 | -52 | -105 | -159 | -116 | -57 |
| 20% Exceedance                              | 45  | -22 | -10 | 11  | -41 | -2  | -33 | -26 | 3    | -13  | -29  | -29 |
| 30% Exceedance                              | -1  | -3  | -21 | 12  | -11 | 2   | -14 | -22 | 5    | -4   | -6   | -5  |
| 40% Exceedance                              | -4  | -8  | -20 | -33 | 3   | 0   | -16 | -19 | 2    | -3   | 3    | 12  |
| 50% Exceedance                              | 20  | -60 | -20 | -20 | 9   | 3   | -17 | -15 | -1   | -4   | 7    | 4   |
| 60% Exceedance                              | 11  | 5   | -24 | 2   | 4   | 2   | -12 | -18 | -7   | -3   | 17   | 17  |
| 70% Exceedance                              | 3   | -7  | -5  | 3   | 4   | -3  | -8  | -17 | -5   | 3    | 13   | 17  |
| 80% Exceedance                              | -2  | -4  | -8  | -2  | 4   | 0   | -11 | -19 | -4   | 2    | 10   | 11  |
| 90% Exceedance                              | -1  | -6  | -7  | 0   | 2   | -7  | -26 | -20 | -1   | 0    | 10   | 4   |
| Full Simulation Period Average <sup>a</sup> | 15  | -2  | -15 | 0   | -2  | 0   | -19 | -32 | -20  | -24  | -19  | -3  |
| Wet Water Years (28%)                       | 2   | 0   | -6  | -8  | 0   | -6  | -16 | -19 | -3   | 1    | 7    | 9   |
| Above Normal Years (14%)                    | 2   | -6  | -10 | -4  | 10  | 2   | -35 | -28 | -4   | -4   | 18   | 17  |
| Below Normal Years (18%)                    | 12  | -14 | -13 | 11  | 1   | 1   | -22 | -22 | -1   | 1    | 6    | -10 |
| Dry Water Years (24%)                       | 10  | 9   | 4   | -9  | -15 | -1  | -9  | -12 | 2    | 1    | 10   | 19  |
| Critical Water Years (16%)                  | 61  | -3  | -71 | 21  | 0   | 10  | -24 | -98 | -119 | -149 | -170 | -67 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-9-2a. Old River at Rock Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 826 | 940 | 962 | 935 | 580 | 350 | 368 | 387 | 465 | 628 | 674 | 755 |
| 20% Exceedance                              | 778 | 851 | 923 | 745 | 493 | 322 | 348 | 331 | 276 | 369 | 528 | 697 |
| 30% Exceedance                              | 751 | 751 | 885 | 604 | 384 | 305 | 314 | 309 | 266 | 335 | 471 | 657 |
| 40% Exceedance                              | 719 | 714 | 846 | 539 | 329 | 294 | 308 | 298 | 262 | 317 | 430 | 619 |
| 50% Exceedance                              | 652 | 647 | 778 | 445 | 308 | 284 | 301 | 287 | 254 | 299 | 376 | 576 |
| 60% Exceedance                              | 234 | 338 | 580 | 328 | 285 | 274 | 288 | 278 | 246 | 259 | 330 | 343 |
| 70% Exceedance                              | 229 | 324 | 503 | 283 | 268 | 266 | 278 | 268 | 240 | 243 | 294 | 318 |
| 80% Exceedance                              | 223 | 300 | 438 | 256 | 250 | 256 | 268 | 258 | 229 | 234 | 270 | 295 |
| 90% Exceedance                              | 218 | 261 | 314 | 229 | 229 | 237 | 247 | 218 | 193 | 219 | 257 | 279 |
| Full Simulation Period Average <sup>a</sup> | 524 | 569 | 684 | 495 | 367 | 295 | 305 | 303 | 290 | 336 | 418 | 510 |
| Wet Water Years (28%)                       | 224 | 299 | 579 | 292 | 282 | 253 | 255 | 230 | 214 | 231 | 273 | 292 |
| Above Normal Years (14%)                    | 224 | 301 | 658 | 433 | 301 | 280 | 318 | 291 | 244 | 243 | 285 | 307 |
| Below Normal Years (18%)                    | 687 | 687 | 666 | 509 | 332 | 289 | 310 | 293 | 254 | 304 | 421 | 642 |
| Dry Water Years (24%)                       | 754 | 726 | 686 | 628 | 421 | 301 | 300 | 295 | 261 | 343 | 476 | 622 |
| Critical Water Years (16%)                  | 824 | 950 | 922 | 690 | 533 | 382 | 383 | 461 | 547 | 626 | 702 | 751 |

**Table F.2.5-9-2b. Old River at Rock Slough Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 881 | 952 | 951 | 911 | 594 | 385 | 400 | 336 | 359 | 478 | 561 | 717 |
| 20% Exceedance                              | 821 | 829 | 916 | 743 | 462 | 347 | 364 | 321 | 285 | 363 | 521 | 680 |
| 30% Exceedance                              | 756 | 758 | 876 | 594 | 377 | 336 | 344 | 310 | 274 | 330 | 472 | 665 |
| 40% Exceedance                              | 715 | 694 | 828 | 517 | 332 | 323 | 336 | 301 | 265 | 314 | 439 | 635 |
| 50% Exceedance                              | 678 | 614 | 741 | 440 | 317 | 313 | 323 | 291 | 252 | 300 | 397 | 591 |
| 60% Exceedance                              | 246 | 342 | 555 | 330 | 289 | 304 | 310 | 283 | 242 | 255 | 347 | 359 |
| 70% Exceedance                              | 231 | 323 | 507 | 286 | 272 | 287 | 296 | 265 | 238 | 246 | 303 | 332 |
| 80% Exceedance                              | 221 | 308 | 432 | 256 | 252 | 257 | 278 | 246 | 227 | 236 | 274 | 303 |
| 90% Exceedance                              | 218 | 259 | 307 | 230 | 231 | 231 | 243 | 201 | 192 | 219 | 265 | 284 |
| Full Simulation Period Average <sup>a</sup> | 543 | 571 | 671 | 495 | 371 | 317 | 320 | 284 | 272 | 314 | 404 | 515 |
| Wet Water Years (28%)                       | 226 | 302 | 574 | 286 | 282 | 252 | 257 | 216 | 212 | 231 | 278 | 301 |
| Above Normal Years (14%)                    | 227 | 300 | 653 | 429 | 310 | 315 | 357 | 290 | 244 | 247 | 301 | 320 |
| Below Normal Years (18%)                    | 701 | 676 | 662 | 524 | 337 | 332 | 341 | 288 | 257 | 305 | 433 | 645 |
| Dry Water Years (24%)                       | 765 | 734 | 684 | 607 | 409 | 320 | 326 | 303 | 268 | 348 | 500 | 659 |
| Critical Water Years (16%)                  | 905 | 960 | 860 | 717 | 559 | 413 | 366 | 366 | 428 | 478 | 537 | 697 |

**Table F.2.5-9-2c. Old River at Rock Slough Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|
| 10% Exceedance                              | 54  | 13  | -11 | -24 | 13  | 34  | 32  | -51 | -107 | -150 | -112 | -38 |
| 20% Exceedance                              | 44  | -23 | -7  | -2  | -32 | 25  | 16  | -10 | 10   | -6   | -7   | -17 |
| 30% Exceedance                              | 5   | 7   | -9  | -10 | -7  | 32  | 30  | 0   | 8    | -5   | 2    | 8   |
| 40% Exceedance                              | -4  | -19 | -18 | -23 | 3   | 29  | 28  | 3   | 4    | -3   | 9    | 16  |
| 50% Exceedance                              | 26  | -33 | -37 | -5  | 9   | 28  | 21  | 4   | -2   | 1    | 21   | 15  |
| 60% Exceedance                              | 12  | 4   | -25 | 2   | 5   | 29  | 21  | 6   | -4   | -3   | 17   | 16  |
| 70% Exceedance                              | 2   | -1  | 5   | 3   | 4   | 21  | 18  | -3  | -2   | 3    | 10   | 15  |
| 80% Exceedance                              | -2  | 8   | -5  | -1  | 2   | 1   | 10  | -12 | -2   | 2    | 4    | 8   |
| 90% Exceedance                              | 0   | -2  | -6  | 0   | 2   | -6  | -4  | -17 | -1   | 0    | 8    | 4   |
| Full Simulation Period Average <sup>a</sup> | 18  | 2   | -13 | 0   | 4   | 22  | 15  | -18 | -18  | -22  | -14  | 5   |
| Wet Water Years (28%)                       | 2   | 3   | -5  | -6  | 0   | -1  | 3   | -14 | -2   | 0    | 5    | 8   |
| Above Normal Years (14%)                    | 3   | -1  | -5  | -4  | 10  | 35  | 39  | -1  | 0    | 4    | 17   | 13  |
| Below Normal Years (18%)                    | 14  | -11 | -4  | 15  | 5   | 43  | 30  | -5  | 3    | 1    | 12   | 3   |
| Dry Water Years (24%)                       | 11  | 8   | -2  | -21 | -12 | 20  | 26  | 8   | 6    | 5    | 25   | 37  |
| Critical Water Years (16%)                  | 81  | 10  | -62 | 27  | 26  | 31  | -18 | -95 | -118 | -148 | -165 | -54 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-9-3a. Old River at Rock Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 826 | 940 | 962 | 935 | 580 | 350 | 368 | 387 | 465 | 628 | 674 | 755 |
| 20% Exceedance                              | 778 | 851 | 923 | 745 | 493 | 322 | 348 | 331 | 276 | 369 | 528 | 697 |
| 30% Exceedance                              | 751 | 751 | 885 | 604 | 384 | 305 | 314 | 309 | 266 | 335 | 471 | 657 |
| 40% Exceedance                              | 719 | 714 | 846 | 539 | 329 | 294 | 308 | 298 | 262 | 317 | 430 | 619 |
| 50% Exceedance                              | 652 | 647 | 778 | 445 | 308 | 284 | 301 | 287 | 254 | 299 | 376 | 576 |
| 60% Exceedance                              | 234 | 338 | 580 | 328 | 285 | 274 | 288 | 278 | 246 | 259 | 330 | 343 |
| 70% Exceedance                              | 229 | 324 | 503 | 283 | 268 | 266 | 278 | 268 | 240 | 243 | 294 | 318 |
| 80% Exceedance                              | 223 | 300 | 438 | 256 | 250 | 256 | 268 | 258 | 229 | 234 | 270 | 295 |
| 90% Exceedance                              | 218 | 261 | 314 | 229 | 229 | 237 | 247 | 218 | 193 | 219 | 257 | 279 |
| Full Simulation Period Average <sup>a</sup> | 524 | 569 | 684 | 495 | 367 | 295 | 305 | 303 | 290 | 336 | 418 | 510 |
| Wet Water Years (28%)                       | 224 | 299 | 579 | 292 | 282 | 253 | 255 | 230 | 214 | 231 | 273 | 292 |
| Above Normal Years (14%)                    | 224 | 301 | 658 | 433 | 301 | 280 | 318 | 291 | 244 | 243 | 285 | 307 |
| Below Normal Years (18%)                    | 687 | 687 | 666 | 509 | 332 | 289 | 310 | 293 | 254 | 304 | 421 | 642 |
| Dry Water Years (24%)                       | 754 | 726 | 686 | 628 | 421 | 301 | 300 | 295 | 261 | 343 | 476 | 622 |
| Critical Water Years (16%)                  | 824 | 950 | 922 | 690 | 533 | 382 | 383 | 461 | 547 | 626 | 702 | 751 |

**Table F.2.5-9-3b. Old River at Rock Slough Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 871 | 944 | 959 | 864 | 588 | 389 | 395 | 333 | 333 | 463 | 563 | 721 |
| 20% Exceedance                              | 800 | 828 | 917 | 719 | 464 | 351 | 362 | 317 | 279 | 356 | 526 | 689 |
| 30% Exceedance                              | 757 | 750 | 874 | 584 | 378 | 337 | 342 | 303 | 269 | 328 | 471 | 664 |
| 40% Exceedance                              | 716 | 699 | 832 | 532 | 330 | 323 | 336 | 296 | 257 | 316 | 436 | 633 |
| 50% Exceedance                              | 678 | 654 | 726 | 446 | 314 | 313 | 322 | 289 | 249 | 295 | 389 | 592 |
| 60% Exceedance                              | 244 | 344 | 559 | 330 | 288 | 302 | 310 | 280 | 242 | 254 | 339 | 353 |
| 70% Exceedance                              | 230 | 324 | 510 | 288 | 271 | 287 | 295 | 262 | 236 | 245 | 296 | 327 |
| 80% Exceedance                              | 220 | 309 | 435 | 255 | 252 | 257 | 278 | 244 | 227 | 235 | 273 | 302 |
| 90% Exceedance                              | 218 | 255 | 306 | 230 | 231 | 231 | 243 | 200 | 192 | 218 | 262 | 278 |
| Full Simulation Period Average <sup>a</sup> | 541 | 572 | 675 | 491 | 371 | 318 | 319 | 280 | 265 | 311 | 401 | 514 |
| Wet Water Years (28%)                       | 225 | 302 | 574 | 289 | 283 | 254 | 257 | 216 | 211 | 231 | 277 | 300 |
| Above Normal Years (14%)                    | 225 | 300 | 655 | 428 | 306 | 313 | 356 | 288 | 242 | 239 | 290 | 315 |
| Below Normal Years (18%)                    | 698 | 679 | 661 | 509 | 337 | 332 | 337 | 282 | 251 | 306 | 427 | 645 |
| Dry Water Years (24%)                       | 757 | 724 | 683 | 596 | 401 | 319 | 326 | 300 | 262 | 349 | 504 | 660 |
| Critical Water Years (16%)                  | 913 | 973 | 887 | 723 | 575 | 418 | 364 | 353 | 398 | 460 | 530 | 696 |

**Table F.2.5-9-3c. Old River at Rock Slough Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|
| 10% Exceedance                              | 45  | 5   | -4  | -71 | 8   | 39  | 26  | -54  | -133 | -165 | -110 | -34 |
| 20% Exceedance                              | 22  | -23 | -6  | -27 | -30 | 28  | 14  | -14  | 3    | -13  | -2   | -9  |
| 30% Exceedance                              | 6   | -2  | -11 | -21 | -6  | 32  | 28  | -6   | 2    | -6   | 1    | 7   |
| 40% Exceedance                              | -3  | -15 | -14 | -8  | 1   | 29  | 28  | -2   | -4   | -1   | 6    | 14  |
| 50% Exceedance                              | 27  | 7   | -53 | 1   | 6   | 28  | 21  | 1    | -5   | -4   | 13   | 16  |
| 60% Exceedance                              | 10  | 7   | -21 | 2   | 3   | 28  | 22  | 3    | -5   | -5   | 9    | 11  |
| 70% Exceedance                              | 1   | 0   | 7   | 5   | 2   | 22  | 18  | -7   | -4   | 2    | 2    | 9   |
| 80% Exceedance                              | -3  | 9   | -3  | -1  | 2   | 1   | 10  | -13  | -2   | 2    | 3    | 7   |
| 90% Exceedance                              | 0   | -7  | -7  | 0   | 2   | -6  | -4  | -18  | -1   | -1   | 5    | -1  |
| Full Simulation Period Average <sup>a</sup> | 17  | 2   | -9  | -4  | 4   | 23  | 14  | -23  | -25  | -25  | -18  | 4   |
| Wet Water Years (28%)                       | 1   | 3   | -5  | -3  | 1   | 0   | 3   | -14  | -3   | 0    | 4    | 8   |
| Above Normal Years (14%)                    | 1   | -1  | -3  | -5  | 6   | 33  | 38  | -3   | -2   | -4   | 6    | 8   |
| Below Normal Years (18%)                    | 11  | -8  | -5  | -1  | 5   | 43  | 27  | -11  | -3   | 2    | 6    | 2   |
| Dry Water Years (24%)                       | 3   | -2  | -3  | -32 | -20 | 19  | 26  | 5    | 1    | 6    | 28   | 38  |
| Critical Water Years (16%)                  | 89  | 23  | -34 | 33  | 42  | 36  | -19 | -108 | -149 | -165 | -172 | -55 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-9-4a. Old River at Rock Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 826 | 940 | 962 | 935 | 580 | 350 | 368 | 387 | 465 | 628 | 674 | 755 |
| 20% Exceedance                              | 778 | 851 | 923 | 745 | 493 | 322 | 348 | 331 | 276 | 369 | 528 | 697 |
| 30% Exceedance                              | 751 | 751 | 885 | 604 | 384 | 305 | 314 | 309 | 266 | 335 | 471 | 657 |
| 40% Exceedance                              | 719 | 714 | 846 | 539 | 329 | 294 | 308 | 298 | 262 | 317 | 430 | 619 |
| 50% Exceedance                              | 652 | 647 | 778 | 445 | 308 | 284 | 301 | 287 | 254 | 299 | 376 | 576 |
| 60% Exceedance                              | 234 | 338 | 580 | 328 | 285 | 274 | 288 | 278 | 246 | 259 | 330 | 343 |
| 70% Exceedance                              | 229 | 324 | 503 | 283 | 268 | 266 | 278 | 268 | 240 | 243 | 294 | 318 |
| 80% Exceedance                              | 223 | 300 | 438 | 256 | 250 | 256 | 268 | 258 | 229 | 234 | 270 | 295 |
| 90% Exceedance                              | 218 | 261 | 314 | 229 | 229 | 237 | 247 | 218 | 193 | 219 | 257 | 279 |
| Full Simulation Period Average <sup>a</sup> | 524 | 569 | 684 | 495 | 367 | 295 | 305 | 303 | 290 | 336 | 418 | 510 |
| Wet Water Years (28%)                       | 224 | 299 | 579 | 292 | 282 | 253 | 255 | 230 | 214 | 231 | 273 | 292 |
| Above Normal Years (14%)                    | 224 | 301 | 658 | 433 | 301 | 280 | 318 | 291 | 244 | 243 | 285 | 307 |
| Below Normal Years (18%)                    | 687 | 687 | 666 | 509 | 332 | 289 | 310 | 293 | 254 | 304 | 421 | 642 |
| Dry Water Years (24%)                       | 754 | 726 | 686 | 628 | 421 | 301 | 300 | 295 | 261 | 343 | 476 | 622 |
| Critical Water Years (16%)                  | 824 | 950 | 922 | 690 | 533 | 382 | 383 | 461 | 547 | 626 | 702 | 751 |

**Table F.2.5-9-4b. Old River at Rock Slough Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 842 | 945 | 990 | 864 | 573 | 354 | 343 | 354 | 460 | 617 | 680 | 747 |
| 20% Exceedance                              | 784 | 836 | 920 | 742 | 453 | 320 | 315 | 305 | 278 | 366 | 524 | 684 |
| 30% Exceedance                              | 744 | 753 | 882 | 623 | 376 | 305 | 303 | 287 | 271 | 331 | 472 | 662 |
| 40% Exceedance                              | 715 | 704 | 838 | 507 | 338 | 293 | 292 | 279 | 264 | 314 | 451 | 634 |
| 50% Exceedance                              | 666 | 588 | 772 | 417 | 311 | 287 | 284 | 273 | 252 | 298 | 383 | 590 |
| 60% Exceedance                              | 245 | 342 | 569 | 329 | 289 | 276 | 276 | 259 | 240 | 256 | 347 | 360 |
| 70% Exceedance                              | 232 | 317 | 497 | 286 | 272 | 264 | 269 | 249 | 236 | 245 | 308 | 335 |
| 80% Exceedance                              | 221 | 295 | 430 | 255 | 254 | 256 | 257 | 238 | 225 | 236 | 281 | 307 |
| 90% Exceedance                              | 218 | 257 | 307 | 229 | 231 | 231 | 221 | 198 | 192 | 219 | 267 | 283 |
| Full Simulation Period Average <sup>a</sup> | 530 | 569 | 677 | 491 | 360 | 294 | 289 | 284 | 287 | 333 | 425 | 518 |
| Wet Water Years (28%)                       | 226 | 299 | 573 | 284 | 282 | 248 | 239 | 212 | 211 | 232 | 280 | 301 |
| Above Normal Years (14%)                    | 227 | 296 | 648 | 429 | 314 | 282 | 283 | 263 | 240 | 239 | 304 | 325 |
| Below Normal Years (18%)                    | 694 | 670 | 658 | 503 | 332 | 289 | 289 | 269 | 253 | 304 | 434 | 644 |
| Dry Water Years (24%)                       | 764 | 734 | 695 | 630 | 408 | 300 | 291 | 283 | 263 | 344 | 487 | 641 |
| Critical Water Years (16%)                  | 832 | 960 | 890 | 688 | 499 | 382 | 379 | 447 | 533 | 608 | 680 | 737 |

**Table F.2.5-9-4c. Old River at Rock Slough Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 16  | 5   | 28  | -71 | -8  | 4   | -25 | -33 | -6  | -11 | 7   | -8  |
| 20% Exceedance                              | 6   | -15 | -3  | -3  | -40 | -2  | -32 | -26 | 3   | -3  | -4  | -13 |
| 30% Exceedance                              | -7  | 1   | -3  | 19  | -8  | 1   | -12 | -22 | 5   | -3  | 1   | 5   |
| 40% Exceedance                              | -4  | -10 | -9  | -32 | 9   | -1  | -16 | -19 | 2   | -3  | 21  | 15  |
| 50% Exceedance                              | 15  | -59 | -6  | -28 | 3   | 3   | -17 | -14 | -1  | -1  | 7   | 14  |
| 60% Exceedance                              | 11  | 4   | -10 | 2   | 4   | 2   | -12 | -18 | -7  | -3  | 17  | 17  |
| 70% Exceedance                              | 4   | -7  | -6  | 3   | 4   | -2  | -9  | -19 | -5  | 3   | 15  | 17  |
| 80% Exceedance                              | -2  | -4  | -8  | -2  | 4   | 0   | -11 | -19 | -4  | 2   | 11  | 11  |
| 90% Exceedance                              | -1  | -4  | -7  | 0   | 2   | -7  | -26 | -20 | -1  | 0   | 10  | 4   |
| Full Simulation Period Average <sup>a</sup> | 6   | 0   | -7  | -4  | -7  | -1  | -16 | -18 | -3  | -3  | 6   | 8   |
| Wet Water Years (28%)                       | 2   | 0   | -6  | -8  | 0   | -5  | -16 | -19 | -3  | 1   | 7   | 9   |
| Above Normal Years (14%)                    | 3   | -5  | -10 | -4  | 13  | 3   | -36 | -28 | -4  | -4  | 19  | 18  |
| Below Normal Years (18%)                    | 7   | -16 | -8  | -6  | 0   | 1   | -22 | -23 | -1  | 0   | 13  | 2   |
| Dry Water Years (24%)                       | 10  | 8   | 9   | 2   | -13 | -1  | -9  | -12 | 2   | 0   | 11  | 20  |
| Critical Water Years (16%)                  | 8   | 9   | -32 | -2  | -34 | -1  | -4  | -14 | -14 | -17 | -22 | -13 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-9-5a. Old River at Rock Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 826 | 940 | 962 | 935 | 580 | 350 | 368 | 387 | 465 | 628 | 674 | 755 |
| 20% Exceedance                              | 778 | 851 | 923 | 745 | 493 | 322 | 348 | 331 | 276 | 369 | 528 | 697 |
| 30% Exceedance                              | 751 | 751 | 885 | 604 | 384 | 305 | 314 | 309 | 266 | 335 | 471 | 657 |
| 40% Exceedance                              | 719 | 714 | 846 | 539 | 329 | 294 | 308 | 298 | 262 | 317 | 430 | 619 |
| 50% Exceedance                              | 652 | 647 | 778 | 445 | 308 | 284 | 301 | 287 | 254 | 299 | 376 | 576 |
| 60% Exceedance                              | 234 | 338 | 580 | 328 | 285 | 274 | 288 | 278 | 246 | 259 | 330 | 343 |
| 70% Exceedance                              | 229 | 324 | 503 | 283 | 268 | 266 | 278 | 268 | 240 | 243 | 294 | 318 |
| 80% Exceedance                              | 223 | 300 | 438 | 256 | 250 | 256 | 268 | 258 | 229 | 234 | 270 | 295 |
| 90% Exceedance                              | 218 | 261 | 314 | 229 | 229 | 237 | 247 | 218 | 193 | 219 | 257 | 279 |
| Full Simulation Period Average <sup>a</sup> | 524 | 569 | 684 | 495 | 367 | 295 | 305 | 303 | 290 | 336 | 418 | 510 |
| Wet Water Years (28%)                       | 224 | 299 | 579 | 292 | 282 | 253 | 255 | 230 | 214 | 231 | 273 | 292 |
| Above Normal Years (14%)                    | 224 | 301 | 658 | 433 | 301 | 280 | 318 | 291 | 244 | 243 | 285 | 307 |
| Below Normal Years (18%)                    | 687 | 687 | 666 | 509 | 332 | 289 | 310 | 293 | 254 | 304 | 421 | 642 |
| Dry Water Years (24%)                       | 754 | 726 | 686 | 628 | 421 | 301 | 300 | 295 | 261 | 343 | 476 | 622 |
| Critical Water Years (16%)                  | 824 | 950 | 922 | 690 | 533 | 382 | 383 | 461 | 547 | 626 | 702 | 751 |

**Table F.2.5-9-5b. Old River at Rock Slough Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 608 | 596 | 711 | 806 | 833 | 809 | 717 | 588 | 535 | 603 | 675 | 697 |
| 20% Exceedance                              | 551 | 569 | 670 | 757 | 762 | 767 | 700 | 572 | 505 | 559 | 599 | 630 |
| 30% Exceedance                              | 517 | 549 | 633 | 694 | 734 | 754 | 690 | 562 | 490 | 523 | 548 | 568 |
| 40% Exceedance                              | 502 | 527 | 615 | 666 | 709 | 744 | 664 | 551 | 463 | 466 | 482 | 514 |
| 50% Exceedance                              | 493 | 510 | 575 | 643 | 683 | 709 | 630 | 507 | 436 | 435 | 446 | 464 |
| 60% Exceedance                              | 485 | 498 | 565 | 623 | 662 | 603 | 446 | 426 | 426 | 424 | 429 | 455 |
| 70% Exceedance                              | 469 | 486 | 541 | 592 | 570 | 442 | 383 | 372 | 406 | 409 | 419 | 443 |
| 80% Exceedance                              | 459 | 474 | 517 | 539 | 350 | 374 | 321 | 296 | 374 | 394 | 406 | 426 |
| 90% Exceedance                              | 443 | 452 | 490 | 303 | 237 | 243 | 205 | 131 | 286 | 371 | 378 | 402 |
| Full Simulation Period Average <sup>a</sup> | 508 | 519 | 581 | 617 | 606 | 594 | 523 | 439 | 429 | 474 | 502 | 524 |
| Wet Water Years (28%)                       | 464 | 496 | 550 | 523 | 416 | 356 | 284 | 244 | 322 | 401 | 417 | 432 |
| Above Normal Years (14%)                    | 469 | 498 | 618 | 677 | 609 | 556 | 482 | 424 | 409 | 406 | 399 | 425 |
| Below Normal Years (18%)                    | 481 | 511 | 590 | 646 | 639 | 637 | 564 | 475 | 443 | 459 | 461 | 479 |
| Dry Water Years (24%)                       | 518 | 514 | 549 | 645 | 712 | 746 | 675 | 547 | 477 | 504 | 536 | 566 |
| Critical Water Years (16%)                  | 643 | 599 | 643 | 657 | 739 | 768 | 700 | 590 | 543 | 634 | 736 | 761 |

**Table F.2.5-9-5c. Old River at Rock Slough Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep  |
|---------------------------------------------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|------|
| 10% Exceedance                              | -219 | -343 | -251 | -129 | 253 | 459 | 348 | 201 | 69  | -25 | 1   | -57  |
| 20% Exceedance                              | -227 | -283 | -253 | 11   | 268 | 445 | 352 | 240 | 230 | 190 | 72  | -67  |
| 30% Exceedance                              | -234 | -202 | -252 | 90   | 350 | 449 | 375 | 253 | 224 | 189 | 78  | -89  |
| 40% Exceedance                              | -217 | -187 | -232 | 126  | 380 | 450 | 356 | 253 | 201 | 149 | 52  | -105 |
| 50% Exceedance                              | -159 | -137 | -204 | 198  | 376 | 425 | 328 | 220 | 182 | 136 | 70  | -113 |
| 60% Exceedance                              | 251  | 160  | -15  | 295  | 378 | 328 | 158 | 148 | 180 | 166 | 100 | 112  |
| 70% Exceedance                              | 240  | 162  | 39   | 309  | 301 | 176 | 105 | 104 | 166 | 167 | 125 | 125  |
| 80% Exceedance                              | 237  | 174  | 80   | 282  | 100 | 118 | 53  | 38  | 145 | 160 | 136 | 131  |
| 90% Exceedance                              | 225  | 191  | 177  | 74   | 8   | 6   | -42 | -87 | 93  | 152 | 121 | 122  |
| Full Simulation Period Average <sup>a</sup> | -17  | -51  | -103 | 122  | 239 | 299 | 217 | 137 | 139 | 139 | 83  | 15   |
| Wet Water Years (28%)                       | 241  | 197  | -29  | 231  | 134 | 102 | 29  | 14  | 108 | 171 | 144 | 140  |
| Above Normal Years (14%)                    | 245  | 197  | -40  | 244  | 308 | 277 | 164 | 133 | 165 | 164 | 114 | 118  |
| Below Normal Years (18%)                    | -206 | -175 | -76  | 136  | 306 | 348 | 254 | 183 | 189 | 155 | 40  | -163 |
| Dry Water Years (24%)                       | -236 | -212 | -138 | 16   | 291 | 446 | 375 | 252 | 216 | 161 | 60  | -56  |
| Critical Water Years (16%)                  | -181 | -352 | -279 | -33  | 207 | 386 | 317 | 129 | -3  | 8   | 34  | 11   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-9-6a. Old River at Rock Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 3,075 | 2,584 | 2,034 | 1,018 | 821 | 779 | 698 | 582 | 744 | 1,745 | 3,060 | 3,806 |
| 20% Exceedance                              | 2,468 | 1,891 | 1,385 | 884   | 783 | 750 | 673 | 555 | 576 | 1,326 | 2,643 | 3,295 |
| 30% Exceedance                              | 2,047 | 1,412 | 984   | 790   | 727 | 730 | 643 | 534 | 496 | 1,090 | 2,122 | 2,826 |
| 40% Exceedance                              | 1,788 | 1,159 | 836   | 720   | 695 | 699 | 621 | 511 | 467 | 782   | 1,897 | 2,544 |
| 50% Exceedance                              | 1,317 | 923   | 748   | 680   | 675 | 659 | 520 | 449 | 438 | 632   | 1,512 | 2,167 |
| 60% Exceedance                              | 1,105 | 769   | 677   | 650   | 626 | 526 | 420 | 388 | 421 | 542   | 1,237 | 1,698 |
| 70% Exceedance                              | 665   | 627   | 630   | 630   | 557 | 393 | 341 | 318 | 403 | 462   | 876   | 1,071 |
| 80% Exceedance                              | 588   | 556   | 592   | 564   | 331 | 328 | 270 | 252 | 357 | 433   | 575   | 679   |
| 90% Exceedance                              | 539   | 533   | 534   | 313   | 229 | 221 | 153 | 113 | 262 | 391   | 494   | 531   |
| Full Simulation Period Average <sup>a</sup> | 1,582 | 1,275 | 1,002 | 738   | 619 | 561 | 479 | 412 | 487 | 897   | 1,658 | 2,097 |
| Wet Water Years (28%)                       | 682   | 589   | 583   | 492   | 369 | 308 | 243 | 217 | 307 | 443   | 722   | 868   |
| Above Normal Years (14%)                    | 1,007 | 746   | 691   | 692   | 568 | 484 | 415 | 373 | 404 | 560   | 1,197 | 1,536 |
| Below Normal Years (18%)                    | 1,620 | 1,157 | 853   | 730   | 638 | 598 | 504 | 433 | 456 | 851   | 1,833 | 2,335 |
| Dry Water Years (24%)                       | 2,074 | 1,532 | 1,119 | 781   | 724 | 716 | 627 | 512 | 526 | 1,054 | 2,086 | 2,775 |
| Critical Water Years (16%)                  | 3,004 | 2,817 | 2,088 | 1,153 | 919 | 797 | 701 | 616 | 851 | 1,802 | 2,858 | 3,457 |

**Table F.2.5-9-6b. Old River at Rock Slough Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 866 | 949 | 941 | 864 | 579 | 378 | 343 | 335 | 360 | 469 | 557 | 698 |
| 20% Exceedance                              | 823 | 829 | 913 | 757 | 453 | 320 | 315 | 305 | 279 | 356 | 499 | 668 |
| 30% Exceedance                              | 750 | 749 | 864 | 616 | 373 | 307 | 301 | 287 | 271 | 331 | 464 | 651 |
| 40% Exceedance                              | 715 | 706 | 826 | 507 | 331 | 294 | 292 | 279 | 264 | 314 | 433 | 630 |
| 50% Exceedance                              | 672 | 587 | 758 | 426 | 317 | 287 | 284 | 273 | 252 | 295 | 383 | 580 |
| 60% Exceedance                              | 245 | 342 | 556 | 329 | 289 | 276 | 276 | 259 | 240 | 256 | 347 | 360 |
| 70% Exceedance                              | 232 | 317 | 498 | 286 | 272 | 263 | 269 | 251 | 236 | 245 | 307 | 335 |
| 80% Exceedance                              | 221 | 295 | 429 | 255 | 254 | 256 | 257 | 238 | 225 | 236 | 279 | 307 |
| 90% Exceedance                              | 217 | 255 | 307 | 229 | 231 | 231 | 221 | 198 | 192 | 219 | 267 | 284 |
| Full Simulation Period Average <sup>a</sup> | 539 | 568 | 669 | 496 | 365 | 296 | 286 | 271 | 270 | 312 | 399 | 507 |
| Wet Water Years (28%)                       | 226 | 299 | 573 | 284 | 282 | 248 | 238 | 212 | 211 | 232 | 280 | 301 |
| Above Normal Years (14%)                    | 226 | 296 | 648 | 428 | 310 | 281 | 283 | 263 | 240 | 239 | 303 | 324 |
| Below Normal Years (18%)                    | 699 | 673 | 653 | 520 | 334 | 290 | 289 | 270 | 253 | 305 | 427 | 632 |
| Dry Water Years (24%)                       | 764 | 735 | 691 | 619 | 406 | 300 | 291 | 283 | 263 | 344 | 486 | 641 |
| Critical Water Years (16%)                  | 885 | 948 | 850 | 712 | 533 | 392 | 360 | 364 | 428 | 477 | 531 | 684 |

**Table F.2.5-9-6c. Old River at Rock Slough Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|------|------|------|------|------|------|--------|--------|--------|
| 10% Exceedance                              | -2,209 | -1,635 | -1,093 | -153 | -241 | -401 | -355 | -248 | -384 | -1,276 | -2,502 | -3,108 |
| 20% Exceedance                              | -1,645 | -1,062 | -473   | -127 | -330 | -430 | -358 | -250 | -298 | -970   | -2,144 | -2,627 |
| 30% Exceedance                              | -1,296 | -663   | -120   | -174 | -354 | -423 | -343 | -248 | -226 | -759   | -1,657 | -2,175 |
| 40% Exceedance                              | -1,073 | -454   | -10    | -214 | -364 | -404 | -329 | -232 | -204 | -468   | -1,464 | -1,913 |
| 50% Exceedance                              | -646   | -336   | 10     | -255 | -358 | -372 | -236 | -176 | -185 | -337   | -1,130 | -1,587 |
| 60% Exceedance                              | -860   | -427   | -121   | -321 | -337 | -250 | -144 | -128 | -182 | -287   | -890   | -1,338 |
| 70% Exceedance                              | -432   | -310   | -133   | -344 | -285 | -130 | -71  | -67  | -167 | -216   | -569   | -737   |
| 80% Exceedance                              | -367   | -260   | -162   | -309 | -76  | -71  | -13  | -14  | -133 | -197   | -295   | -372   |
| 90% Exceedance                              | -322   | -278   | -227   | -84  | 2    | 10   | 68   | 85   | -70  | -172   | -227   | -248   |
| Full Simulation Period Average <sup>a</sup> | -1,043 | -708   | -334   | -242 | -254 | -266 | -194 | -142 | -217 | -585   | -1,258 | -1,590 |
| Wet Water Years (28%)                       | -456   | -290   | -10    | -208 | -88  | -60  | -5   | -5   | -96  | -211   | -442   | -566   |
| Above Normal Years (14%)                    | -781   | -451   | -43    | -263 | -258 | -203 | -132 | -110 | -163 | -321   | -894   | -1,212 |
| Below Normal Years (18%)                    | -922   | -484   | -199   | -210 | -304 | -308 | -215 | -162 | -202 | -546   | -1,406 | -1,703 |
| Dry Water Years (24%)                       | -1,310 | -797   | -428   | -162 | -318 | -416 | -336 | -229 | -263 | -711   | -1,599 | -2,134 |
| Critical Water Years (16%)                  | -2,120 | -1,869 | -1,238 | -441 | -386 | -405 | -341 | -253 | -423 | -1,325 | -2,326 | -2,773 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-9-7a. Old River at Rock Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 3,075 | 2,584 | 2,034 | 1,018 | 821 | 779 | 698 | 582 | 744 | 1,745 | 3,060 | 3,806 |
| 20% Exceedance                              | 2,468 | 1,891 | 1,385 | 884   | 783 | 750 | 673 | 555 | 576 | 1,326 | 2,643 | 3,295 |
| 30% Exceedance                              | 2,047 | 1,412 | 984   | 790   | 727 | 730 | 643 | 534 | 496 | 1,090 | 2,122 | 2,826 |
| 40% Exceedance                              | 1,788 | 1,159 | 836   | 720   | 695 | 699 | 621 | 511 | 467 | 782   | 1,897 | 2,544 |
| 50% Exceedance                              | 1,317 | 923   | 748   | 680   | 675 | 659 | 520 | 449 | 438 | 632   | 1,512 | 2,167 |
| 60% Exceedance                              | 1,105 | 769   | 677   | 650   | 626 | 526 | 420 | 388 | 421 | 542   | 1,237 | 1,698 |
| 70% Exceedance                              | 665   | 627   | 630   | 630   | 557 | 393 | 341 | 318 | 403 | 462   | 876   | 1,071 |
| 80% Exceedance                              | 588   | 556   | 592   | 564   | 331 | 328 | 270 | 252 | 357 | 433   | 575   | 679   |
| 90% Exceedance                              | 539   | 533   | 534   | 313   | 229 | 221 | 153 | 113 | 262 | 391   | 494   | 531   |
| Full Simulation Period Average <sup>a</sup> | 1,582 | 1,275 | 1,002 | 738   | 619 | 561 | 479 | 412 | 487 | 897   | 1,658 | 2,097 |
| Wet Water Years (28%)                       | 682   | 589   | 583   | 492   | 369 | 308 | 243 | 217 | 307 | 443   | 722   | 868   |
| Above Normal Years (14%)                    | 1,007 | 746   | 691   | 692   | 568 | 484 | 415 | 373 | 404 | 560   | 1,197 | 1,536 |
| Below Normal Years (18%)                    | 1,620 | 1,157 | 853   | 730   | 638 | 598 | 504 | 433 | 456 | 851   | 1,833 | 2,335 |
| Dry Water Years (24%)                       | 2,074 | 1,532 | 1,119 | 781   | 724 | 716 | 627 | 512 | 526 | 1,054 | 2,086 | 2,775 |
| Critical Water Years (16%)                  | 3,004 | 2,817 | 2,088 | 1,153 | 919 | 797 | 701 | 616 | 851 | 1,802 | 2,858 | 3,457 |

**Table F.2.5-9-7b. Old River at Rock Slough Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 881 | 952 | 951 | 911 | 594 | 385 | 400 | 336 | 359 | 478 | 561 | 717 |
| 20% Exceedance                              | 821 | 829 | 916 | 743 | 462 | 347 | 364 | 321 | 285 | 363 | 521 | 680 |
| 30% Exceedance                              | 756 | 758 | 876 | 594 | 377 | 336 | 344 | 310 | 274 | 330 | 472 | 665 |
| 40% Exceedance                              | 715 | 694 | 828 | 517 | 332 | 323 | 336 | 301 | 265 | 314 | 439 | 635 |
| 50% Exceedance                              | 678 | 614 | 741 | 440 | 317 | 313 | 323 | 291 | 252 | 300 | 397 | 591 |
| 60% Exceedance                              | 246 | 342 | 555 | 330 | 289 | 304 | 310 | 283 | 242 | 255 | 347 | 359 |
| 70% Exceedance                              | 231 | 323 | 507 | 286 | 272 | 287 | 296 | 265 | 238 | 246 | 303 | 332 |
| 80% Exceedance                              | 221 | 308 | 432 | 256 | 252 | 257 | 278 | 246 | 227 | 236 | 274 | 303 |
| 90% Exceedance                              | 218 | 259 | 307 | 230 | 231 | 231 | 243 | 201 | 192 | 219 | 265 | 284 |
| Full Simulation Period Average <sup>a</sup> | 543 | 571 | 671 | 495 | 371 | 317 | 320 | 284 | 272 | 314 | 404 | 515 |
| Wet Water Years (28%)                       | 226 | 302 | 574 | 286 | 282 | 252 | 257 | 216 | 212 | 231 | 278 | 301 |
| Above Normal Years (14%)                    | 227 | 300 | 653 | 429 | 310 | 315 | 357 | 290 | 244 | 247 | 301 | 320 |
| Below Normal Years (18%)                    | 701 | 676 | 662 | 524 | 337 | 332 | 341 | 288 | 257 | 305 | 433 | 645 |
| Dry Water Years (24%)                       | 765 | 734 | 684 | 607 | 409 | 320 | 326 | 303 | 268 | 348 | 500 | 659 |
| Critical Water Years (16%)                  | 905 | 960 | 860 | 717 | 559 | 413 | 366 | 366 | 428 | 478 | 537 | 697 |

**Table F.2.5-9-7c. Old River at Rock Slough Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|------|------|------|------|------|------|--------|--------|--------|
| 10% Exceedance                              | -2,194 | -1,632 | -1,083 | -107 | -227 | -394 | -298 | -246 | -386 | -1,267 | -2,498 | -3,089 |
| 20% Exceedance                              | -1,647 | -1,062 | -470   | -140 | -321 | -403 | -309 | -234 | -291 | -963   | -2,123 | -2,615 |
| 30% Exceedance                              | -1,291 | -654   | -108   | -196 | -351 | -394 | -299 | -225 | -222 | -760   | -1,650 | -2,161 |
| 40% Exceedance                              | -1,073 | -465   | -8     | -204 | -364 | -376 | -285 | -209 | -202 | -468   | -1,458 | -1,909 |
| 50% Exceedance                              | -639   | -310   | -6     | -240 | -358 | -347 | -198 | -158 | -186 | -332   | -1,115 | -1,576 |
| 60% Exceedance                              | -860   | -428   | -122   | -320 | -336 | -223 | -111 | -104 | -180 | -287   | -890   | -1,339 |
| 70% Exceedance                              | -434   | -303   | -123   | -344 | -285 | -106 | -45  | -54  | -165 | -216   | -572   | -739   |
| 80% Exceedance                              | -367   | -248   | -159   | -308 | -78  | -71  | 8    | -7   | -130 | -197   | -301   | -376   |
| 90% Exceedance                              | -321   | -274   | -227   | -84  | 2    | 11   | 90   | 88   | -70  | -172   | -229   | -248   |
| Full Simulation Period Average <sup>a</sup> | -1,039 | -704   | -331   | -243 | -248 | -244 | -159 | -128 | -215 | -583   | -1,253 | -1,583 |
| Wet Water Years (28%)                       | -456   | -287   | -10    | -206 | -88  | -56  | 14   | -1   | -96  | -212   | -444   | -567   |
| Above Normal Years (14%)                    | -780   | -446   | -38    | -263 | -258 | -170 | -58  | -83  | -160 | -313   | -896   | -1,216 |
| Below Normal Years (18%)                    | -919   | -481   | -191   | -206 | -301 | -266 | -164 | -145 | -199 | -545   | -1,400 | -1,690 |
| Dry Water Years (24%)                       | -1,309 | -798   | -435   | -174 | -315 | -396 | -301 | -210 | -259 | -707   | -1,585 | -2,116 |
| Critical Water Years (16%)                  | -2,100 | -1,857 | -1,228 | -435 | -360 | -384 | -335 | -250 | -422 | -1,324 | -2,321 | -2,760 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-9-8a. Old River at Rock Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 3,075 | 2,584 | 2,034 | 1,018 | 821 | 779 | 698 | 582 | 744 | 1,745 | 3,060 | 3,806 |
| 20% Exceedance                              | 2,468 | 1,891 | 1,385 | 884   | 783 | 750 | 673 | 555 | 576 | 1,326 | 2,643 | 3,295 |
| 30% Exceedance                              | 2,047 | 1,412 | 984   | 790   | 727 | 730 | 643 | 534 | 496 | 1,090 | 2,122 | 2,826 |
| 40% Exceedance                              | 1,788 | 1,159 | 836   | 720   | 695 | 699 | 621 | 511 | 467 | 782   | 1,897 | 2,544 |
| 50% Exceedance                              | 1,317 | 923   | 748   | 680   | 675 | 659 | 520 | 449 | 438 | 632   | 1,512 | 2,167 |
| 60% Exceedance                              | 1,105 | 769   | 677   | 650   | 626 | 526 | 420 | 388 | 421 | 542   | 1,237 | 1,698 |
| 70% Exceedance                              | 665   | 627   | 630   | 630   | 557 | 393 | 341 | 318 | 403 | 462   | 876   | 1,071 |
| 80% Exceedance                              | 588   | 556   | 592   | 564   | 331 | 328 | 270 | 252 | 357 | 433   | 575   | 679   |
| 90% Exceedance                              | 539   | 533   | 534   | 313   | 229 | 221 | 153 | 113 | 262 | 391   | 494   | 531   |
| Full Simulation Period Average <sup>a</sup> | 1,582 | 1,275 | 1,002 | 738   | 619 | 561 | 479 | 412 | 487 | 897   | 1,658 | 2,097 |
| Wet Water Years (28%)                       | 682   | 589   | 583   | 492   | 369 | 308 | 243 | 217 | 307 | 443   | 722   | 868   |
| Above Normal Years (14%)                    | 1,007 | 746   | 691   | 692   | 568 | 484 | 415 | 373 | 404 | 560   | 1,197 | 1,536 |
| Below Normal Years (18%)                    | 1,620 | 1,157 | 853   | 730   | 638 | 598 | 504 | 433 | 456 | 851   | 1,833 | 2,335 |
| Dry Water Years (24%)                       | 2,074 | 1,532 | 1,119 | 781   | 724 | 716 | 627 | 512 | 526 | 1,054 | 2,086 | 2,775 |
| Critical Water Years (16%)                  | 3,004 | 2,817 | 2,088 | 1,153 | 919 | 797 | 701 | 616 | 851 | 1,802 | 2,858 | 3,457 |

**Table F.2.5-9-8b. Old River at Rock Slough Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 871 | 944 | 959 | 864 | 588 | 389 | 395 | 333 | 333 | 463 | 563 | 721 |
| 20% Exceedance                              | 800 | 828 | 917 | 719 | 464 | 351 | 362 | 317 | 279 | 356 | 526 | 689 |
| 30% Exceedance                              | 757 | 750 | 874 | 584 | 378 | 337 | 342 | 303 | 269 | 328 | 471 | 664 |
| 40% Exceedance                              | 716 | 699 | 832 | 532 | 330 | 323 | 336 | 296 | 257 | 316 | 436 | 633 |
| 50% Exceedance                              | 678 | 654 | 726 | 446 | 314 | 313 | 322 | 289 | 249 | 295 | 389 | 592 |
| 60% Exceedance                              | 244 | 344 | 559 | 330 | 288 | 302 | 310 | 280 | 242 | 254 | 339 | 353 |
| 70% Exceedance                              | 230 | 324 | 510 | 288 | 271 | 287 | 295 | 262 | 236 | 245 | 296 | 327 |
| 80% Exceedance                              | 220 | 309 | 435 | 255 | 252 | 257 | 278 | 244 | 227 | 235 | 273 | 302 |
| 90% Exceedance                              | 218 | 255 | 306 | 230 | 231 | 231 | 243 | 200 | 192 | 218 | 262 | 278 |
| Full Simulation Period Average <sup>a</sup> | 541 | 572 | 675 | 491 | 371 | 318 | 319 | 280 | 265 | 311 | 401 | 514 |
| Wet Water Years (28%)                       | 225 | 302 | 574 | 289 | 283 | 254 | 257 | 216 | 211 | 231 | 277 | 300 |
| Above Normal Years (14%)                    | 225 | 300 | 655 | 428 | 306 | 313 | 356 | 288 | 242 | 239 | 290 | 315 |
| Below Normal Years (18%)                    | 698 | 679 | 661 | 509 | 337 | 332 | 337 | 282 | 251 | 306 | 427 | 645 |
| Dry Water Years (24%)                       | 757 | 724 | 683 | 596 | 401 | 319 | 326 | 300 | 262 | 349 | 504 | 660 |
| Critical Water Years (16%)                  | 913 | 973 | 887 | 723 | 575 | 418 | 364 | 353 | 398 | 460 | 530 | 696 |

**Table F.2.5-9-8c. Old River at Rock Slough Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|------|------|------|------|------|------|--------|--------|--------|
| 10% Exceedance                              | -2,203 | -1,640 | -1,075 | -154 | -232 | -390 | -304 | -250 | -412 | -1,282 | -2,496 | -3,085 |
| 20% Exceedance                              | -1,668 | -1,063 | -468   | -165 | -319 | -399 | -311 | -238 | -297 | -970   | -2,117 | -2,607 |
| 30% Exceedance                              | -1,290 | -662   | -109   | -207 | -350 | -393 | -301 | -231 | -228 | -761   | -1,651 | -2,162 |
| 40% Exceedance                              | -1,071 | -461   | -4     | -189 | -366 | -376 | -285 | -215 | -210 | -466   | -1,461 | -1,911 |
| 50% Exceedance                              | -639   | -269   | -22    | -234 | -361 | -347 | -198 | -160 | -189 | -337   | -1,124 | -1,575 |
| 60% Exceedance                              | -861   | -425   | -118   | -320 | -338 | -224 | -110 | -107 | -180 | -289   | -898   | -1,345 |
| 70% Exceedance                              | -435   | -303   | -120   | -342 | -287 | -105 | -45  | -57  | -166 | -217   | -580   | -744   |
| 80% Exceedance                              | -368   | -247   | -157   | -309 | -78  | -71  | 7    | -8   | -130 | -197   | -302   | -377   |
| 90% Exceedance                              | -322   | -278   | -227   | -84  | 2    | 11   | 90   | 88   | -70  | -173   | -231   | -253   |
| Full Simulation Period Average <sup>a</sup> | -1,041 | -704   | -327   | -247 | -248 | -243 | -161 | -132 | -222 | -586   | -1,257 | -1,584 |
| Wet Water Years (28%)                       | -457   | -287   | -9     | -203 | -87  | -54  | 14   | -1   | -96  | -212   | -445   | -568   |
| Above Normal Years (14%)                    | -782   | -446   | -36    | -264 | -262 | -172 | -58  | -85  | -162 | -322   | -907   | -1,221 |
| Below Normal Years (18%)                    | -922   | -478   | -192   | -221 | -301 | -266 | -167 | -151 | -205 | -544   | -1,406 | -1,691 |
| Dry Water Years (24%)                       | -1,317 | -808   | -436   | -185 | -323 | -397 | -302 | -213 | -264 | -705   | -1,581 | -2,115 |
| Critical Water Years (16%)                  | -2,091 | -1,844 | -1,201 | -430 | -344 | -379 | -336 | -263 | -453 | -1,342 | -2,328 | -2,761 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-9-9a. Old River at Rock Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 3,075 | 2,584 | 2,034 | 1,018 | 821 | 779 | 698 | 582 | 744 | 1,745 | 3,060 | 3,806 |
| 20% Exceedance                              | 2,468 | 1,891 | 1,385 | 884   | 783 | 750 | 673 | 555 | 576 | 1,326 | 2,643 | 3,295 |
| 30% Exceedance                              | 2,047 | 1,412 | 984   | 790   | 727 | 730 | 643 | 534 | 496 | 1,090 | 2,122 | 2,826 |
| 40% Exceedance                              | 1,788 | 1,159 | 836   | 720   | 695 | 699 | 621 | 511 | 467 | 782   | 1,897 | 2,544 |
| 50% Exceedance                              | 1,317 | 923   | 748   | 680   | 675 | 659 | 520 | 449 | 438 | 632   | 1,512 | 2,167 |
| 60% Exceedance                              | 1,105 | 769   | 677   | 650   | 626 | 526 | 420 | 388 | 421 | 542   | 1,237 | 1,698 |
| 70% Exceedance                              | 665   | 627   | 630   | 630   | 557 | 393 | 341 | 318 | 403 | 462   | 876   | 1,071 |
| 80% Exceedance                              | 588   | 556   | 592   | 564   | 331 | 328 | 270 | 252 | 357 | 433   | 575   | 679   |
| 90% Exceedance                              | 539   | 533   | 534   | 313   | 229 | 221 | 153 | 113 | 262 | 391   | 494   | 531   |
| Full Simulation Period Average <sup>a</sup> | 1,582 | 1,275 | 1,002 | 738   | 619 | 561 | 479 | 412 | 487 | 897   | 1,658 | 2,097 |
| Wet Water Years (28%)                       | 682   | 589   | 583   | 492   | 369 | 308 | 243 | 217 | 307 | 443   | 722   | 868   |
| Above Normal Years (14%)                    | 1,007 | 746   | 691   | 692   | 568 | 484 | 415 | 373 | 404 | 560   | 1,197 | 1,536 |
| Below Normal Years (18%)                    | 1,620 | 1,157 | 853   | 730   | 638 | 598 | 504 | 433 | 456 | 851   | 1,833 | 2,335 |
| Dry Water Years (24%)                       | 2,074 | 1,532 | 1,119 | 781   | 724 | 716 | 627 | 512 | 526 | 1,054 | 2,086 | 2,775 |
| Critical Water Years (16%)                  | 3,004 | 2,817 | 2,088 | 1,153 | 919 | 797 | 701 | 616 | 851 | 1,802 | 2,858 | 3,457 |

**Table F.2.5-9-9b. Old River at Rock Slough Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 842 | 945 | 990 | 864 | 573 | 354 | 343 | 354 | 460 | 617 | 680 | 747 |
| 20% Exceedance                              | 784 | 836 | 920 | 742 | 453 | 320 | 315 | 305 | 278 | 366 | 524 | 684 |
| 30% Exceedance                              | 744 | 753 | 882 | 623 | 376 | 305 | 303 | 287 | 271 | 331 | 472 | 662 |
| 40% Exceedance                              | 715 | 704 | 838 | 507 | 338 | 293 | 292 | 279 | 264 | 314 | 451 | 634 |
| 50% Exceedance                              | 666 | 588 | 772 | 417 | 311 | 287 | 284 | 273 | 252 | 298 | 383 | 590 |
| 60% Exceedance                              | 245 | 342 | 569 | 329 | 289 | 276 | 276 | 259 | 240 | 256 | 347 | 360 |
| 70% Exceedance                              | 232 | 317 | 497 | 286 | 272 | 264 | 269 | 249 | 236 | 245 | 308 | 335 |
| 80% Exceedance                              | 221 | 295 | 430 | 255 | 254 | 256 | 257 | 238 | 225 | 236 | 281 | 307 |
| 90% Exceedance                              | 218 | 257 | 307 | 229 | 231 | 231 | 221 | 198 | 192 | 219 | 267 | 283 |
| Full Simulation Period Average <sup>a</sup> | 530 | 569 | 677 | 491 | 360 | 294 | 289 | 284 | 287 | 333 | 425 | 518 |
| Wet Water Years (28%)                       | 226 | 299 | 573 | 284 | 282 | 248 | 239 | 212 | 211 | 232 | 280 | 301 |
| Above Normal Years (14%)                    | 227 | 296 | 648 | 429 | 314 | 282 | 283 | 263 | 240 | 239 | 304 | 325 |
| Below Normal Years (18%)                    | 694 | 670 | 658 | 503 | 332 | 289 | 289 | 269 | 253 | 304 | 434 | 644 |
| Dry Water Years (24%)                       | 764 | 734 | 695 | 630 | 408 | 300 | 291 | 283 | 263 | 344 | 487 | 641 |
| Critical Water Years (16%)                  | 832 | 960 | 890 | 688 | 499 | 382 | 379 | 447 | 533 | 608 | 680 | 737 |

**Table F.2.5-9-9c. Old River at Rock Slough Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|------|------|------|------|------|------|--------|--------|--------|
| 10% Exceedance                              | -2,233 | -1,640 | -1,044 | -154 | -248 | -425 | -355 | -229 | -285 | -1,129 | -2,379 | -3,059 |
| 20% Exceedance                              | -1,684 | -1,055 | -465   | -142 | -330 | -430 | -358 | -251 | -298 | -960   | -2,119 | -2,612 |
| 30% Exceedance                              | -1,303 | -659   | -102   | -167 | -351 | -424 | -340 | -248 | -226 | -758   | -1,650 | -2,164 |
| 40% Exceedance                              | -1,073 | -456   | 1      | -213 | -357 | -405 | -329 | -232 | -203 | -468   | -1,446 | -1,910 |
| 50% Exceedance                              | -651   | -335   | 24     | -263 | -363 | -372 | -236 | -176 | -185 | -334   | -1,129 | -1,577 |
| 60% Exceedance                              | -860   | -427   | -108   | -321 | -336 | -251 | -144 | -128 | -182 | -287   | -890   | -1,338 |
| 70% Exceedance                              | -432   | -310   | -134   | -344 | -285 | -129 | -72  | -70  | -167 | -216   | -568   | -736   |
| 80% Exceedance                              | -367   | -260   | -162   | -309 | -76  | -71  | -13  | -14  | -133 | -197   | -293   | -372   |
| 90% Exceedance                              | -322   | -276   | -227   | -84  | 2    | 10   | 68   | 85   | -70  | -172   | -227   | -248   |
| Full Simulation Period Average <sup>a</sup> | -1,052 | -707   | -326   | -247 | -258 | -267 | -191 | -128 | -200 | -564   | -1,233 | -1,580 |
| Wet Water Years (28%)                       | -456   | -290   | -10    | -208 | -87  | -60  | -4   | -5   | -96  | -211   | -442   | -566   |
| Above Normal Years (14%)                    | -780   | -450   | -43    | -263 | -254 | -202 | -132 | -110 | -163 | -321   | -894   | -1,211 |
| Below Normal Years (18%)                    | -926   | -487   | -194   | -227 | -306 | -308 | -216 | -163 | -202 | -546   | -1,399 | -1,691 |
| Dry Water Years (24%)                       | -1,310 | -798   | -424   | -151 | -316 | -416 | -336 | -229 | -263 | -711   | -1,598 | -2,133 |
| Critical Water Years (16%)                  | -2,172 | -1,858 | -1,198 | -465 | -420 | -416 | -322 | -169 | -318 | -1,194 | -2,178 | -2,719 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-9-10a. Old River at Rock Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 3,075 | 2,584 | 2,034 | 1,018 | 821 | 779 | 698 | 582 | 744 | 1,745 | 3,060 | 3,806 |
| 20% Exceedance                              | 2,468 | 1,891 | 1,385 | 884   | 783 | 750 | 673 | 555 | 576 | 1,326 | 2,643 | 3,295 |
| 30% Exceedance                              | 2,047 | 1,412 | 984   | 790   | 727 | 730 | 643 | 534 | 496 | 1,090 | 2,122 | 2,826 |
| 40% Exceedance                              | 1,788 | 1,159 | 836   | 720   | 695 | 699 | 621 | 511 | 467 | 782   | 1,897 | 2,544 |
| 50% Exceedance                              | 1,317 | 923   | 748   | 680   | 675 | 659 | 520 | 449 | 438 | 632   | 1,512 | 2,167 |
| 60% Exceedance                              | 1,105 | 769   | 677   | 650   | 626 | 526 | 420 | 388 | 421 | 542   | 1,237 | 1,698 |
| 70% Exceedance                              | 665   | 627   | 630   | 630   | 557 | 393 | 341 | 318 | 403 | 462   | 876   | 1,071 |
| 80% Exceedance                              | 588   | 556   | 592   | 564   | 331 | 328 | 270 | 252 | 357 | 433   | 575   | 679   |
| 90% Exceedance                              | 539   | 533   | 534   | 313   | 229 | 221 | 153 | 113 | 262 | 391   | 494   | 531   |
| Full Simulation Period Average <sup>a</sup> | 1,582 | 1,275 | 1,002 | 738   | 619 | 561 | 479 | 412 | 487 | 897   | 1,658 | 2,097 |
| Wet Water Years (28%)                       | 682   | 589   | 583   | 492   | 369 | 308 | 243 | 217 | 307 | 443   | 722   | 868   |
| Above Normal Years (14%)                    | 1,007 | 746   | 691   | 692   | 568 | 484 | 415 | 373 | 404 | 560   | 1,197 | 1,536 |
| Below Normal Years (18%)                    | 1,620 | 1,157 | 853   | 730   | 638 | 598 | 504 | 433 | 456 | 851   | 1,833 | 2,335 |
| Dry Water Years (24%)                       | 2,074 | 1,532 | 1,119 | 781   | 724 | 716 | 627 | 512 | 526 | 1,054 | 2,086 | 2,775 |
| Critical Water Years (16%)                  | 3,004 | 2,817 | 2,088 | 1,153 | 919 | 797 | 701 | 616 | 851 | 1,802 | 2,858 | 3,457 |

**Table F.2.5-9-10b. Old River at Rock Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 826 | 940 | 962 | 935 | 580 | 350 | 368 | 387 | 465 | 628 | 674 | 755 |
| 20% Exceedance                              | 778 | 851 | 923 | 745 | 493 | 322 | 348 | 331 | 276 | 369 | 528 | 697 |
| 30% Exceedance                              | 751 | 751 | 885 | 604 | 384 | 305 | 314 | 309 | 266 | 335 | 471 | 657 |
| 40% Exceedance                              | 719 | 714 | 846 | 539 | 329 | 294 | 308 | 298 | 262 | 317 | 430 | 619 |
| 50% Exceedance                              | 652 | 647 | 778 | 445 | 308 | 284 | 301 | 287 | 254 | 299 | 376 | 576 |
| 60% Exceedance                              | 234 | 338 | 580 | 328 | 285 | 274 | 288 | 278 | 246 | 259 | 330 | 343 |
| 70% Exceedance                              | 229 | 324 | 503 | 283 | 268 | 266 | 278 | 268 | 240 | 243 | 294 | 318 |
| 80% Exceedance                              | 223 | 300 | 438 | 256 | 250 | 256 | 268 | 258 | 229 | 234 | 270 | 295 |
| 90% Exceedance                              | 218 | 261 | 314 | 229 | 229 | 237 | 247 | 218 | 193 | 219 | 257 | 279 |
| Full Simulation Period Average <sup>a</sup> | 524 | 569 | 684 | 495 | 367 | 295 | 305 | 303 | 290 | 336 | 418 | 510 |
| Wet Water Years (28%)                       | 224 | 299 | 579 | 292 | 282 | 253 | 255 | 230 | 214 | 231 | 273 | 292 |
| Above Normal Years (14%)                    | 224 | 301 | 658 | 433 | 301 | 280 | 318 | 291 | 244 | 243 | 285 | 307 |
| Below Normal Years (18%)                    | 687 | 687 | 666 | 509 | 332 | 289 | 310 | 293 | 254 | 304 | 421 | 642 |
| Dry Water Years (24%)                       | 754 | 726 | 686 | 628 | 421 | 301 | 300 | 295 | 261 | 343 | 476 | 622 |
| Critical Water Years (16%)                  | 824 | 950 | 922 | 690 | 533 | 382 | 383 | 461 | 547 | 626 | 702 | 751 |

**Table F.2.5-9-10c. Old River at Rock Slough Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|------|------|------|------|------|------|--------|--------|--------|
| 10% Exceedance                              | -2,248 | -1,645 | -1,072 | -83  | -240 | -428 | -330 | -195 | -279 | -1,117 | -2,386 | -3,051 |
| 20% Exceedance                              | -1,691 | -1,040 | -463   | -138 | -289 | -428 | -325 | -224 | -300 | -957   | -2,115 | -2,598 |
| 30% Exceedance                              | -1,295 | -660   | -99    | -186 | -343 | -425 | -329 | -225 | -230 | -755   | -1,651 | -2,169 |
| 40% Exceedance                              | -1,069 | -446   | 10     | -181 | -367 | -404 | -313 | -213 | -206 | -465   | -1,467 | -1,925 |
| 50% Exceedance                              | -666   | -276   | 31     | -235 | -367 | -375 | -219 | -162 | -184 | -333   | -1,136 | -1,591 |
| 60% Exceedance                              | -871   | -432   | -97    | -322 | -341 | -252 | -132 | -110 | -175 | -284   | -907   | -1,355 |
| 70% Exceedance                              | -436   | -303   | -128   | -347 | -289 | -127 | -63  | -50  | -162 | -219   | -582   | -753   |
| 80% Exceedance                              | -365   | -256   | -154   | -307 | -81  | -71  | -2   | 5    | -129 | -199   | -305   | -383   |
| 90% Exceedance                              | -321   | -272   | -220   | -84  | 0    | 17   | 94   | 105  | -69  | -172   | -237   | -252   |
| Full Simulation Period Average <sup>a</sup> | -1,058 | -706   | -318   | -243 | -252 | -266 | -174 | -110 | -197 | -561   | -1,239 | -1,588 |
| Wet Water Years (28%)                       | -458   | -290   | -4     | -200 | -88  | -55  | 12   | 13   | -94  | -212   | -449   | -576   |
| Above Normal Years (14%)                    | -783   | -445   | -33    | -259 | -267 | -205 | -96  | -82  | -160 | -318   | -913   | -1,229 |
| Below Normal Years (18%)                    | -933   | -470   | -186   | -220 | -306 | -309 | -194 | -140 | -202 | -547   | -1,412 | -1,693 |
| Dry Water Years (24%)                       | -1,320 | -806   | -432   | -153 | -303 | -416 | -327 | -217 | -265 | -711   | -1,610 | -2,153 |
| Critical Water Years (16%)                  | -2,181 | -1,867 | -1,166 | -463 | -386 | -415 | -317 | -155 | -304 | -1,177 | -2,156 | -2,706 |

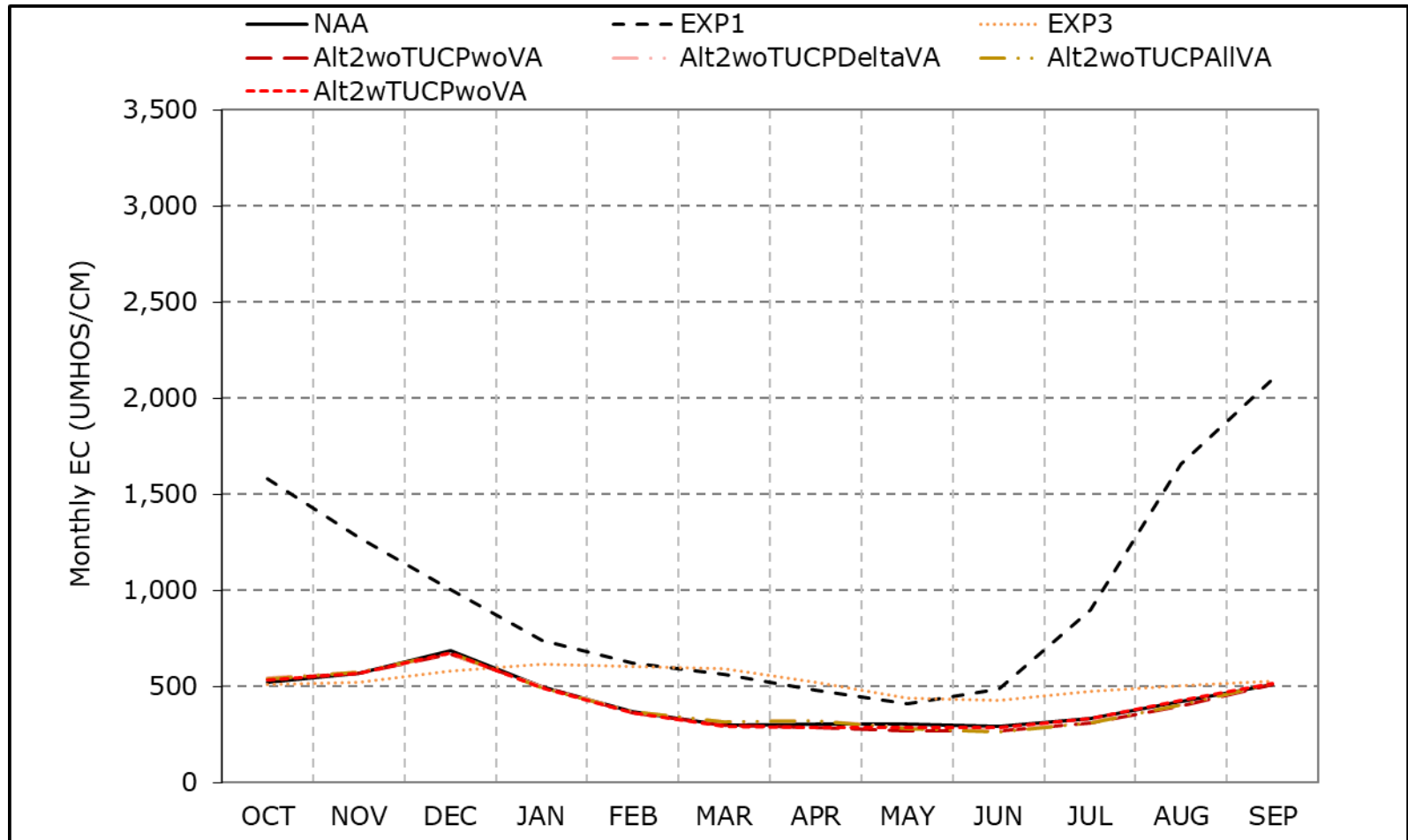
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-9-1. Old River at Rock Slough Salinity, Long-Term Average EC**

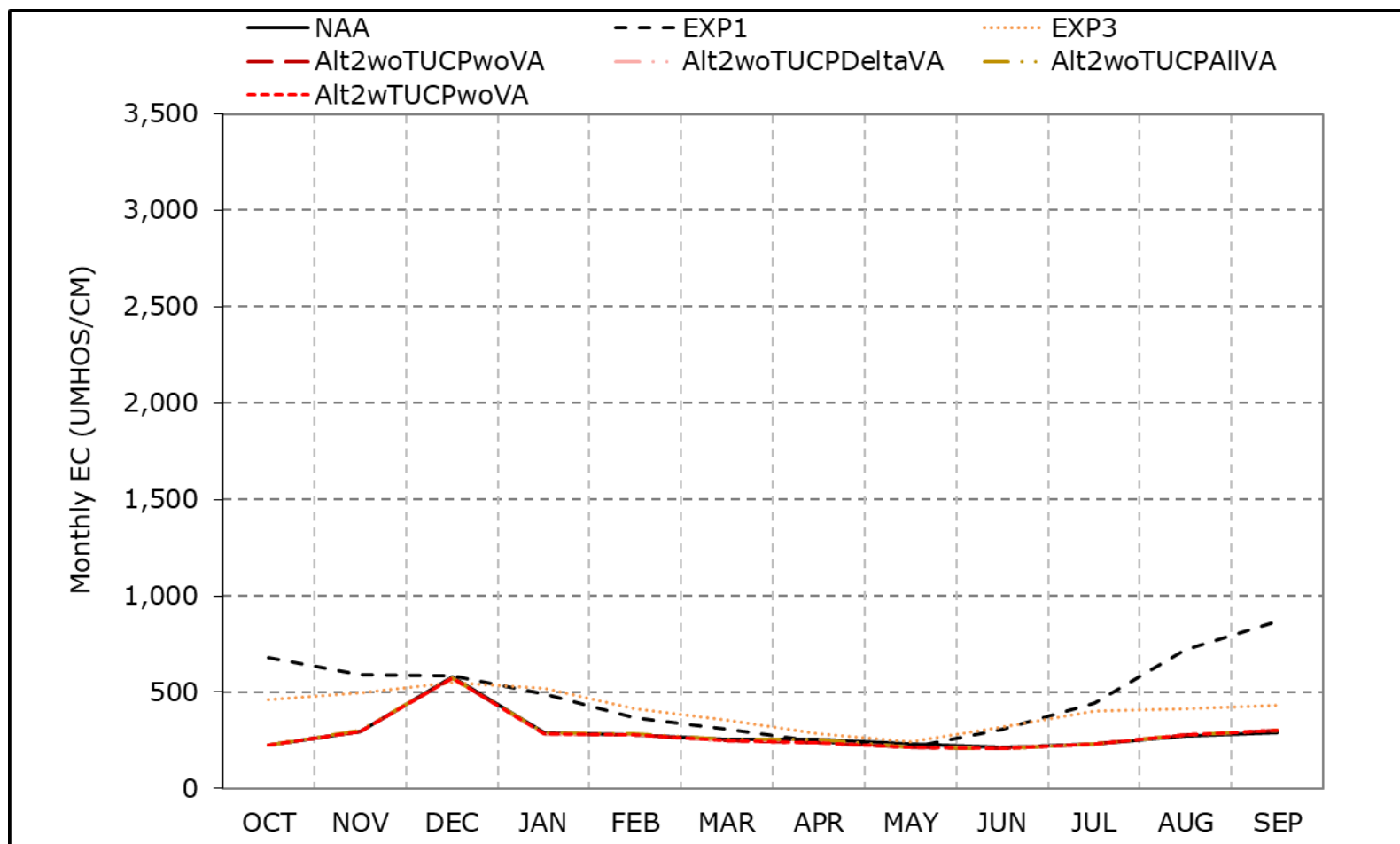


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-2. Old River at Rock Slough Salinity, Wet Year Average EC**

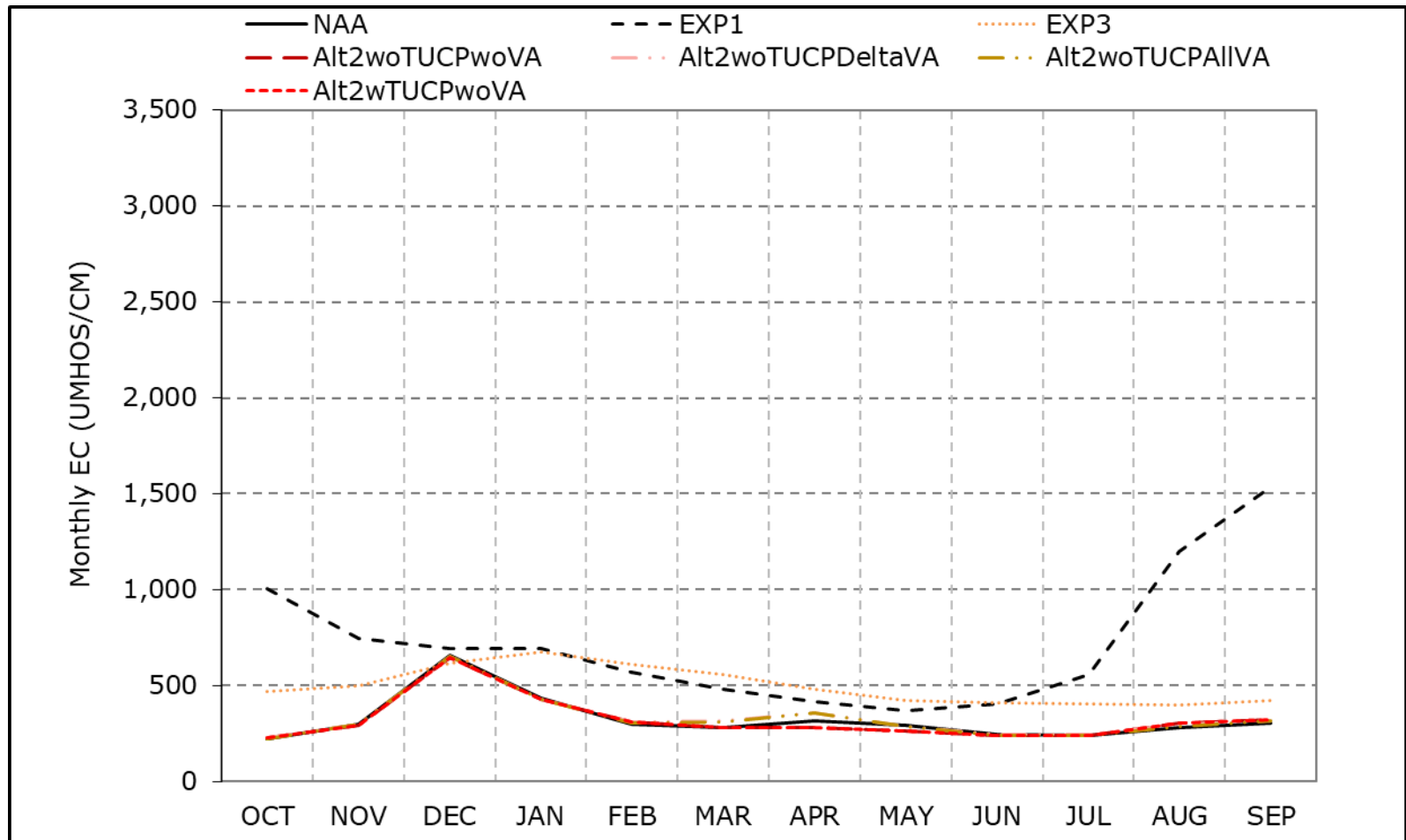


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-3. Old River at Rock Slough Salinity, Above Normal Year Average EC**

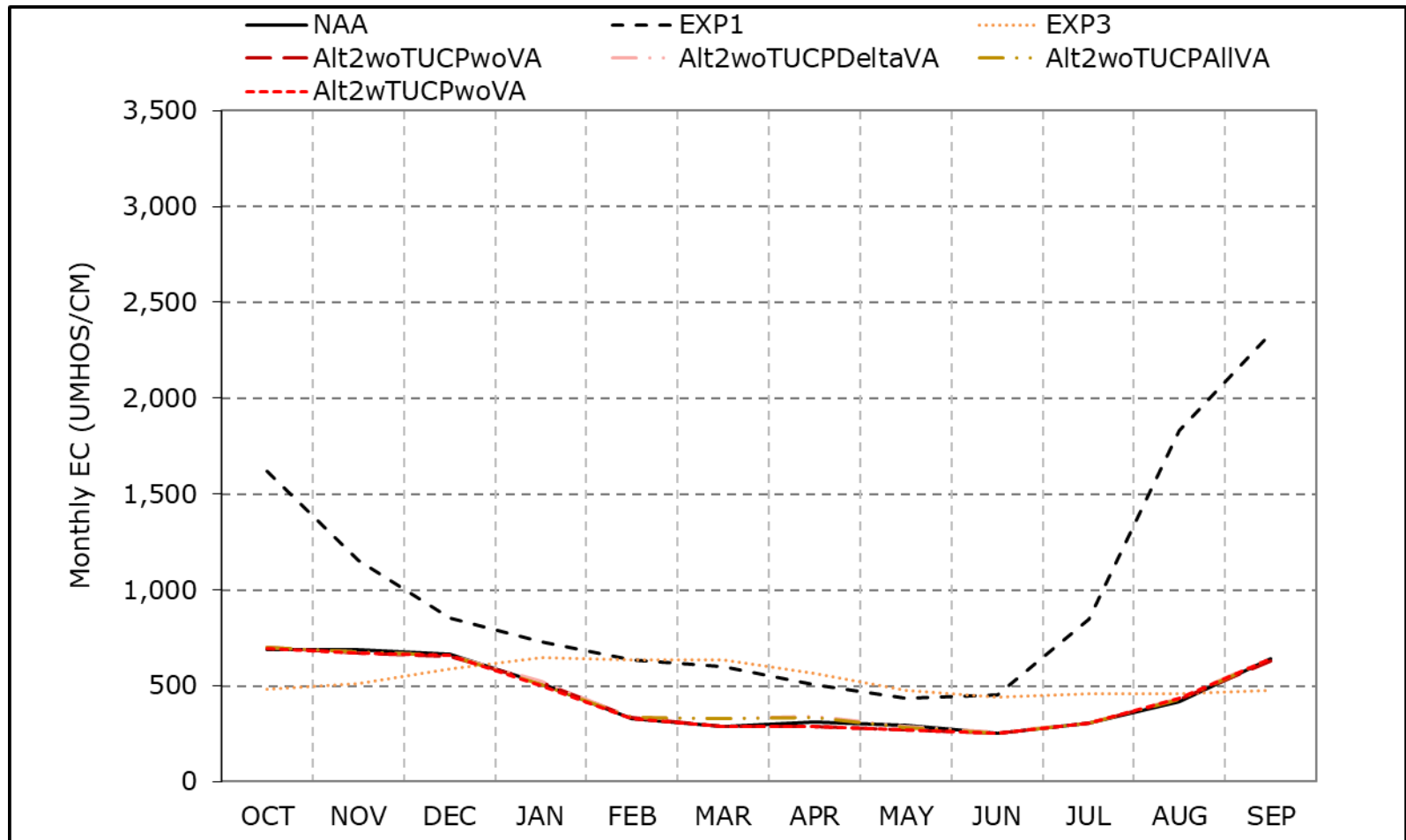


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-4. Old River at Rock Slough Salinity, Below Normal Year Average EC**



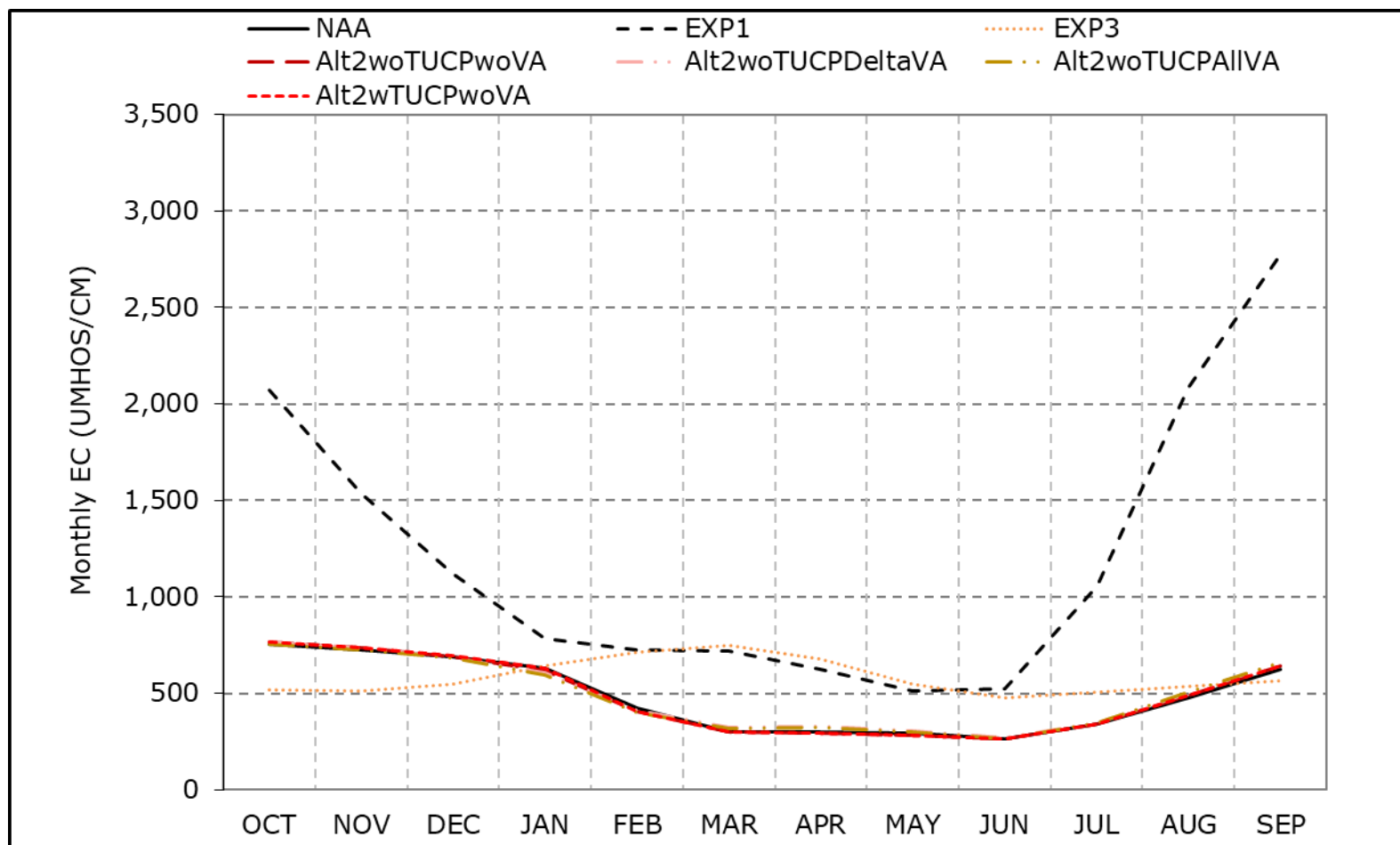
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-9-5. Old River at Rock Slough Salinity, Dry Year Average EC**

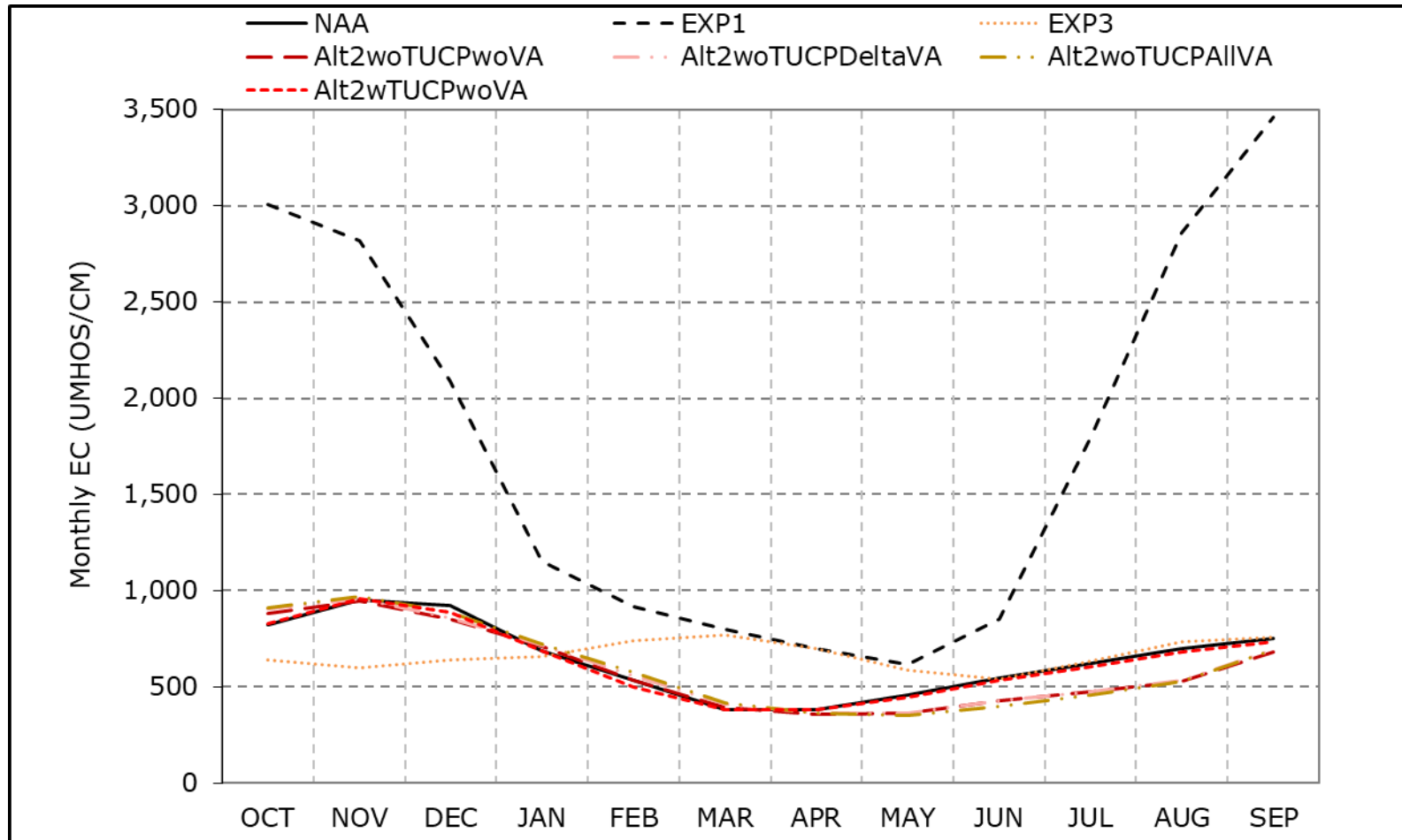


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-6. Old River at Rock Slough Salinity, Critical Year Average EC**

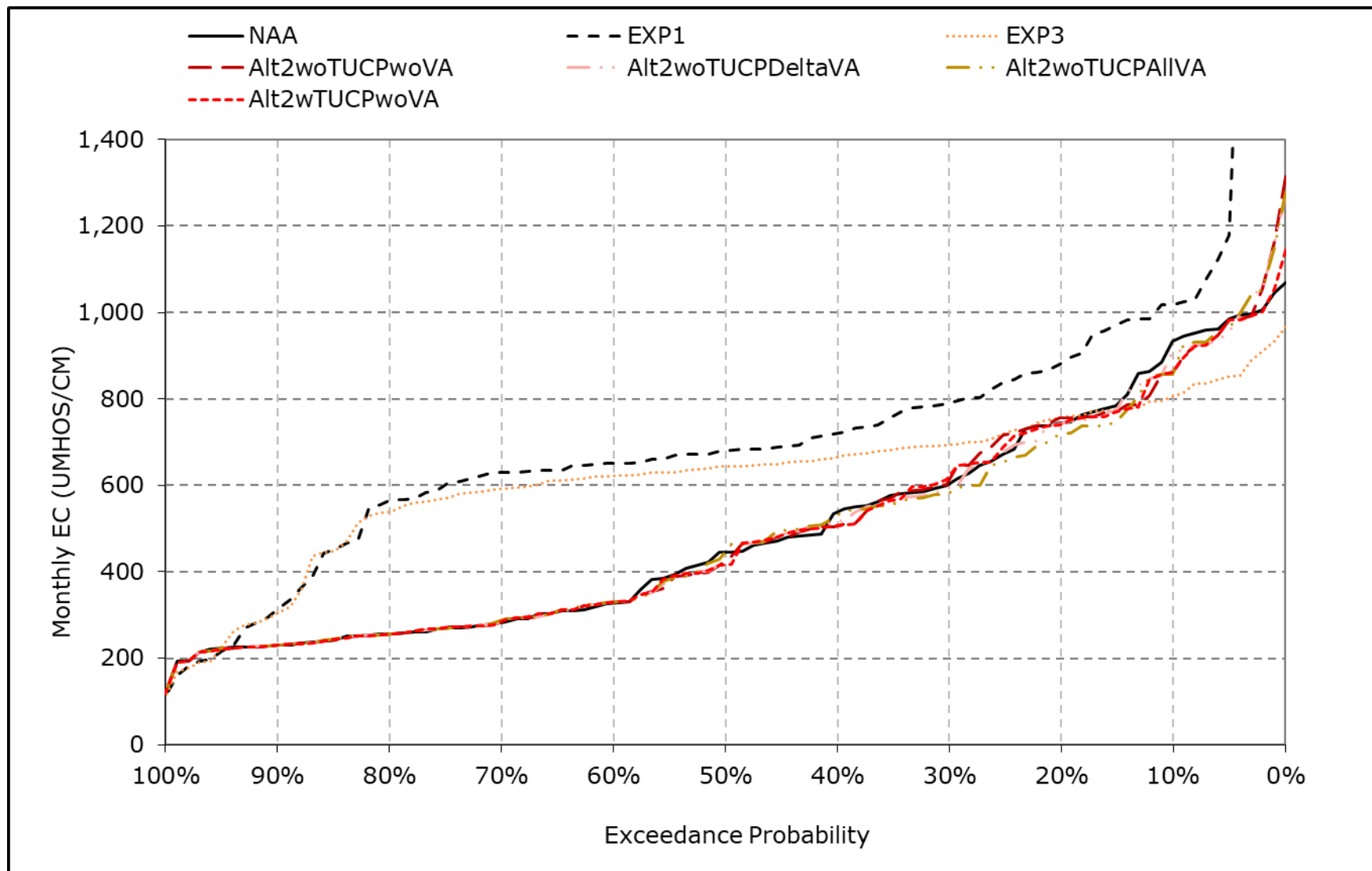


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

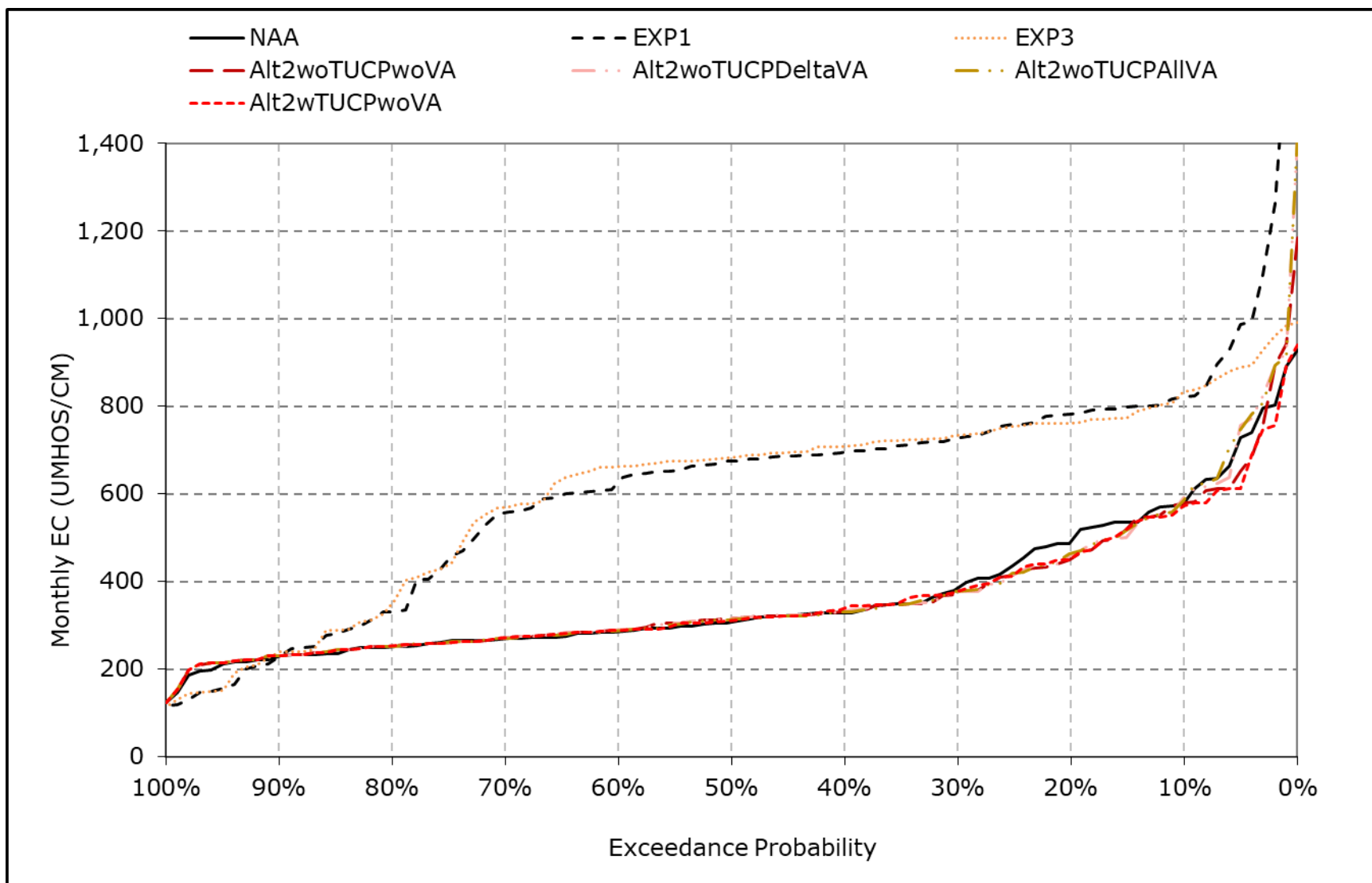
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-7. Old River at Rock Slough Salinity, January EC**



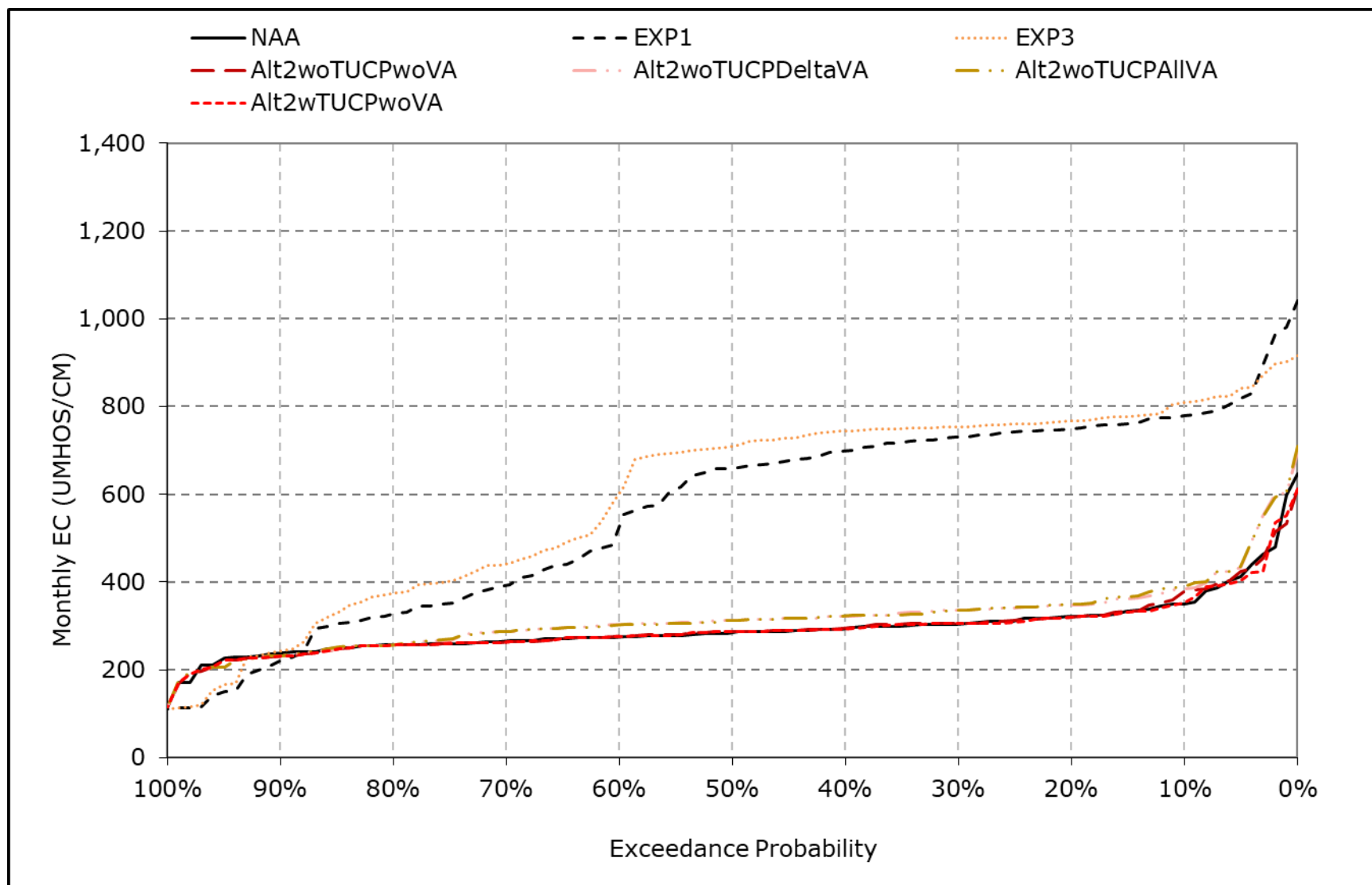
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-8. Old River at Rock Slough Salinity, February EC**



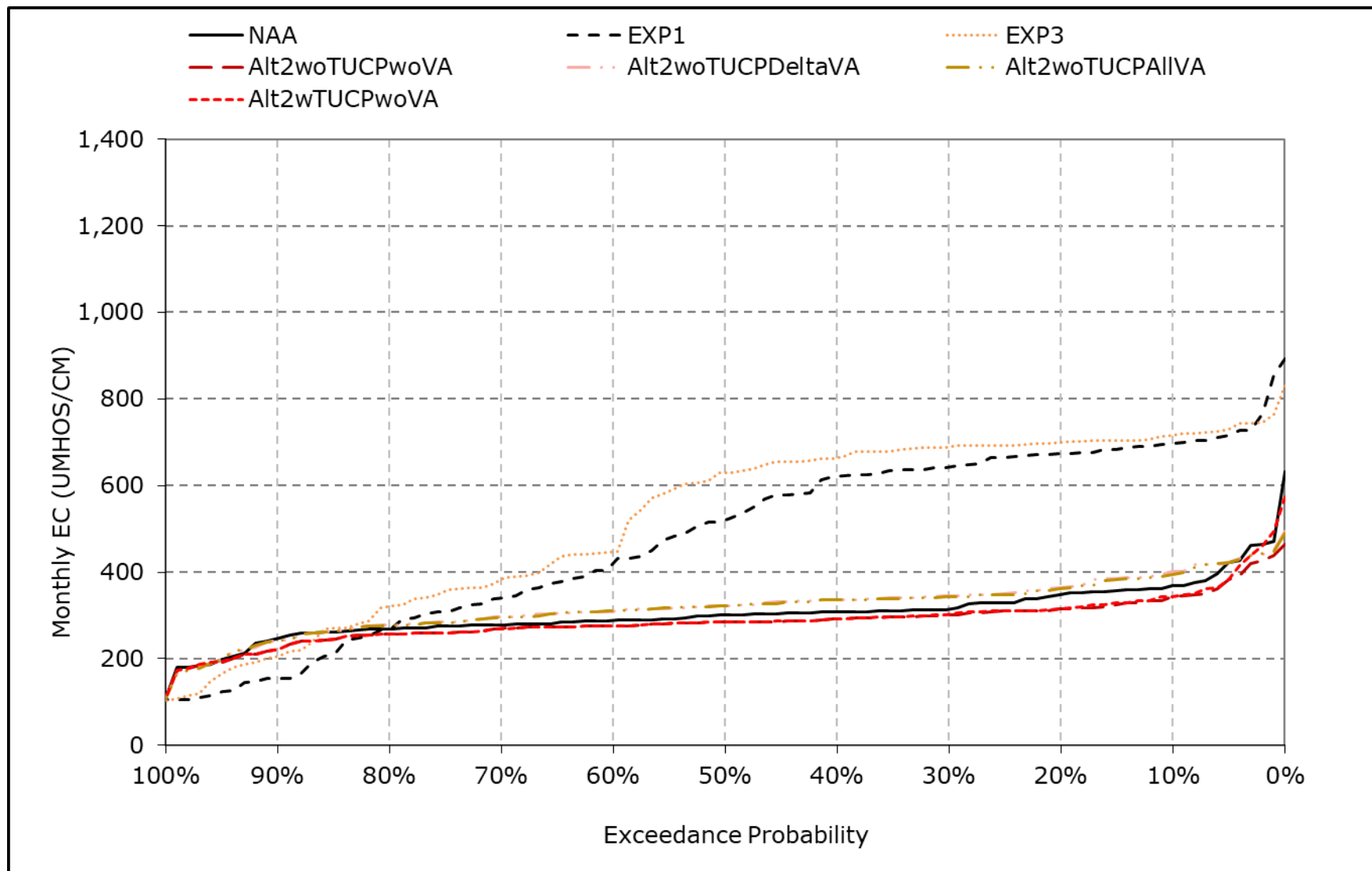
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-9. Old River at Rock Slough Salinity, March EC**



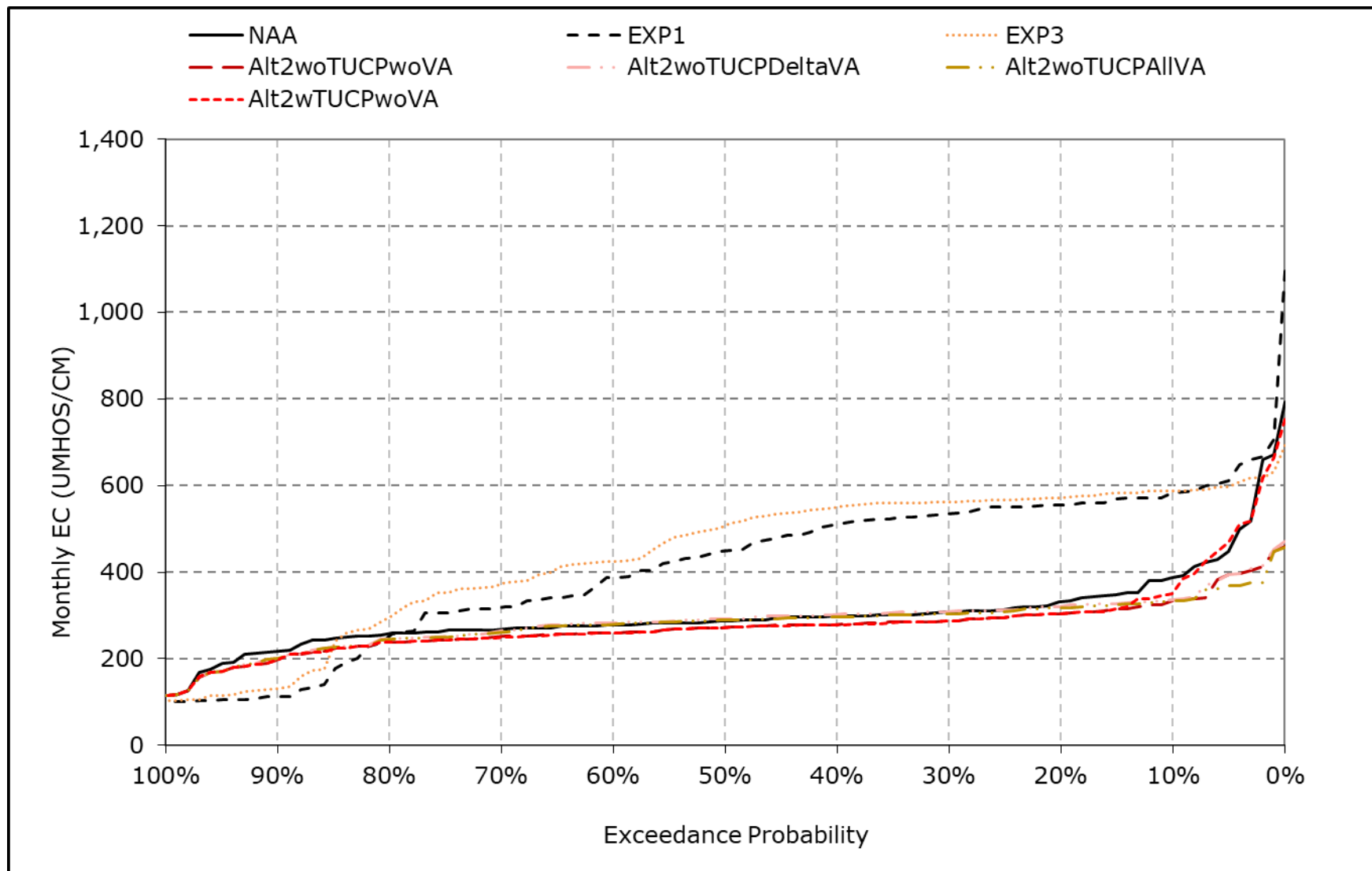
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-10. Old River at Rock Slough Salinity, April EC**



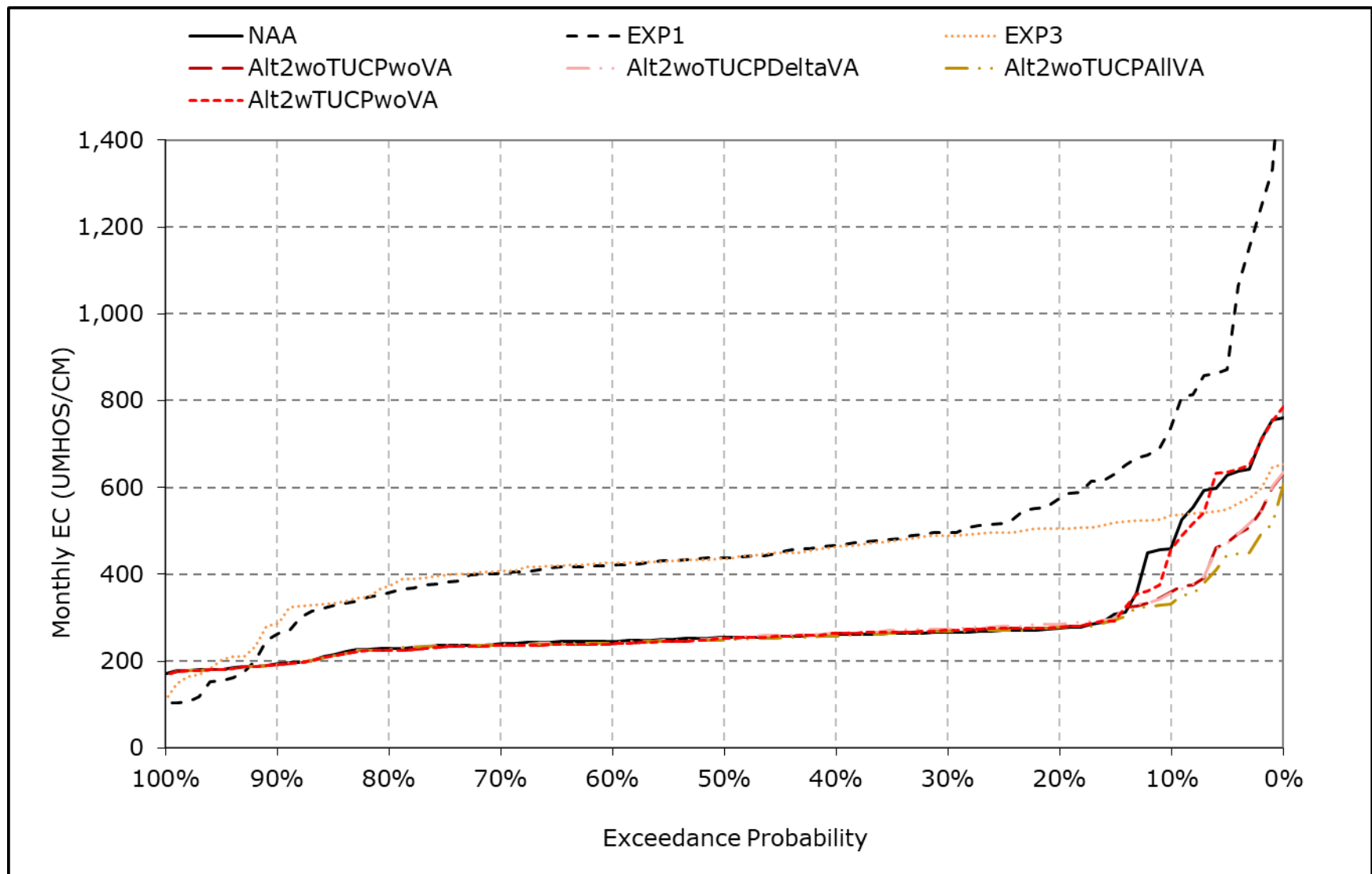
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-11. Old River at Rock Slough Salinity, May EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

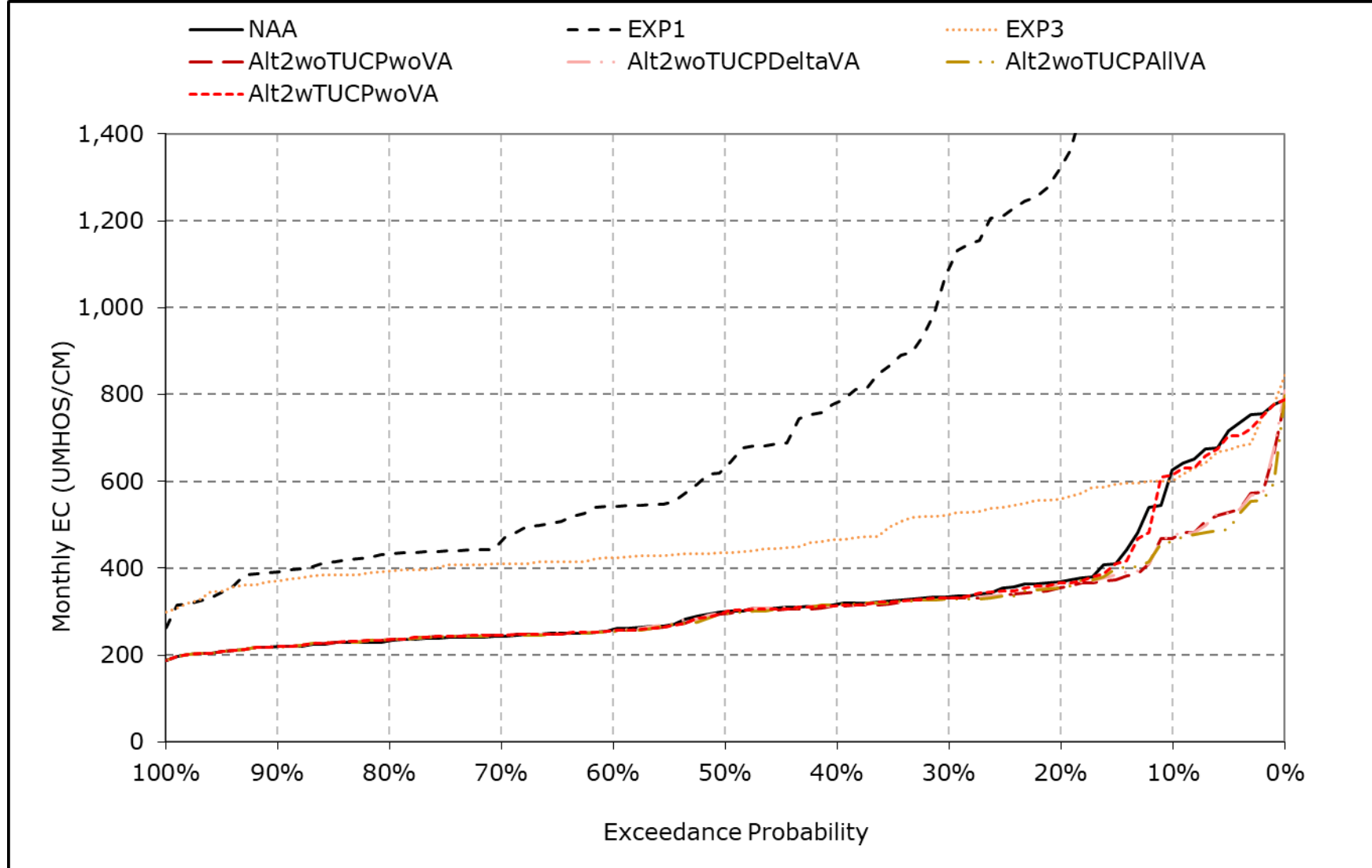
**Figure F.2.5-9-12. Old River at Rock Slough Salinity, June EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

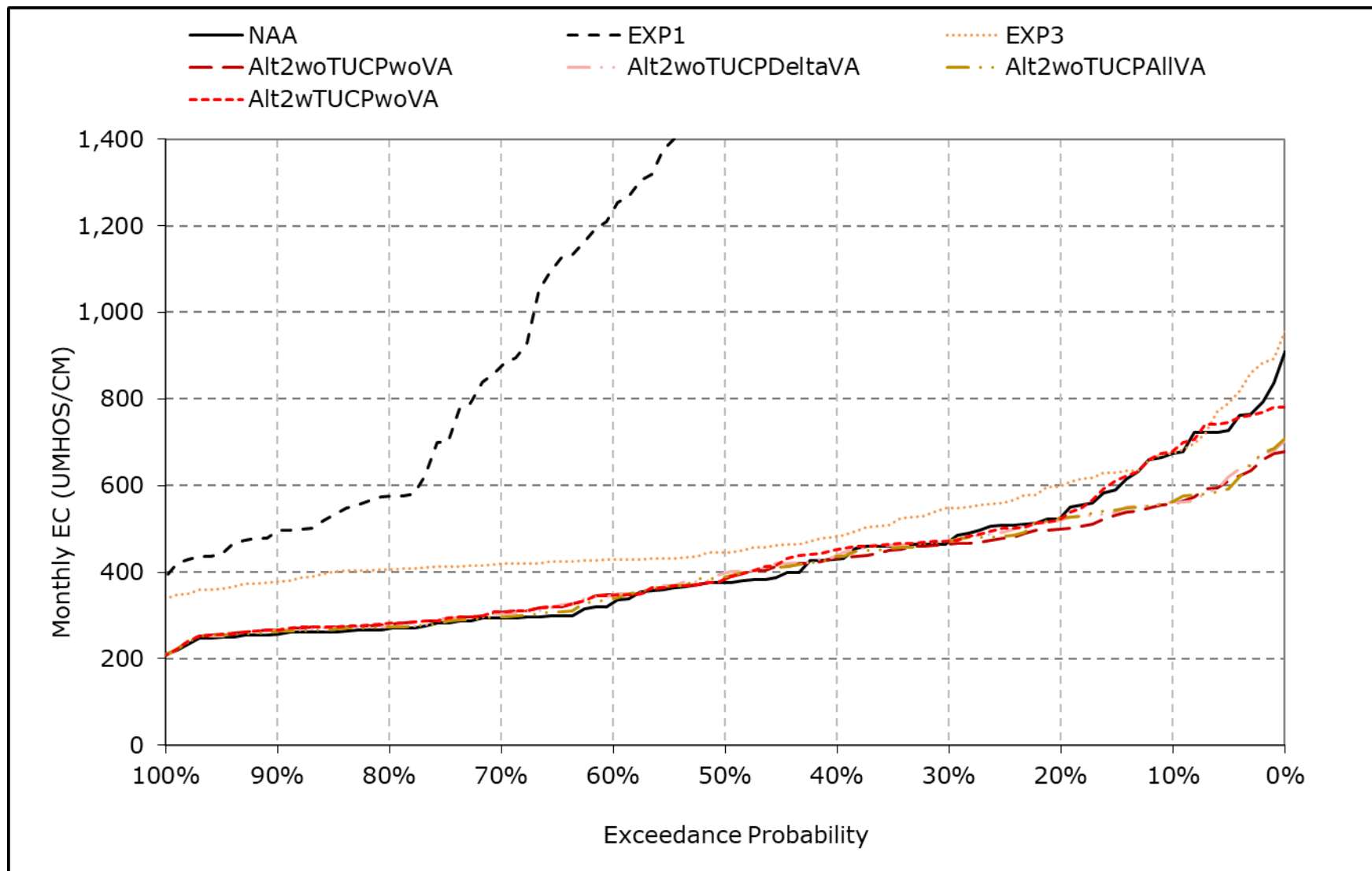


**Figure F.2.5-9-13. Old River at Rock Slough Salinity, July EC**



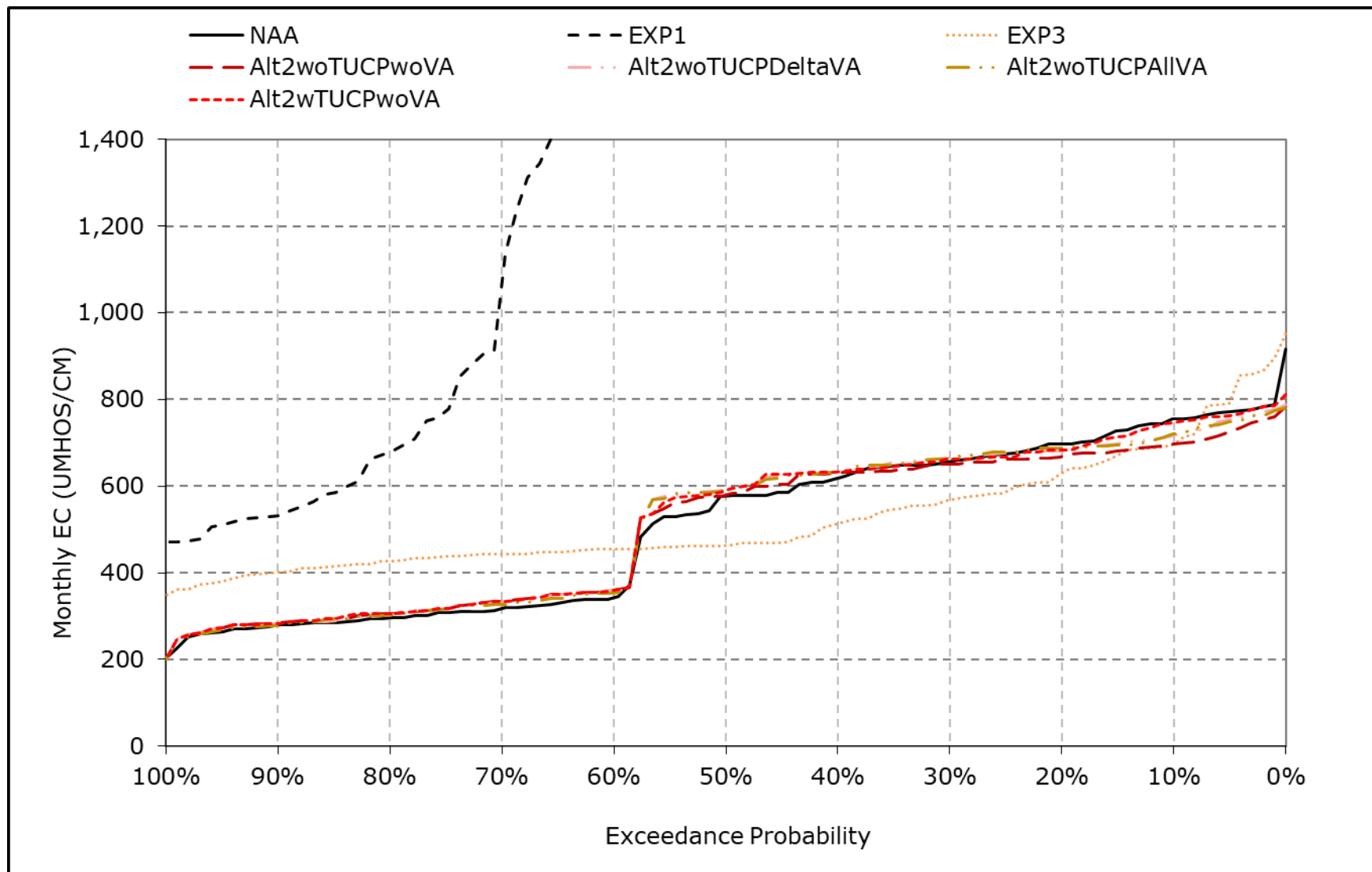
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-14. Old River at Rock Slough Salinity, August EC**



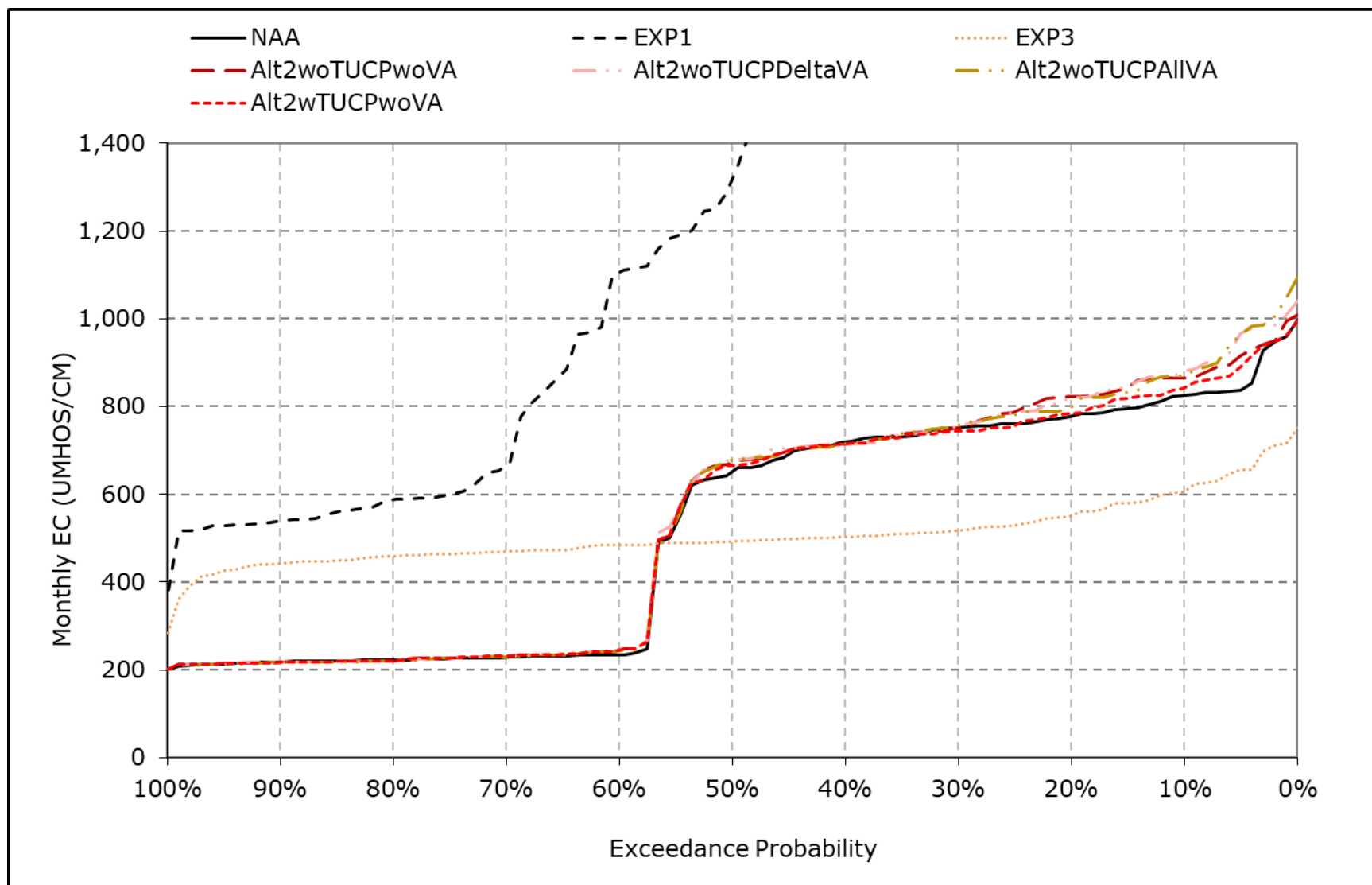
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-15. Old River at Rock Slough Salinity, September EC**



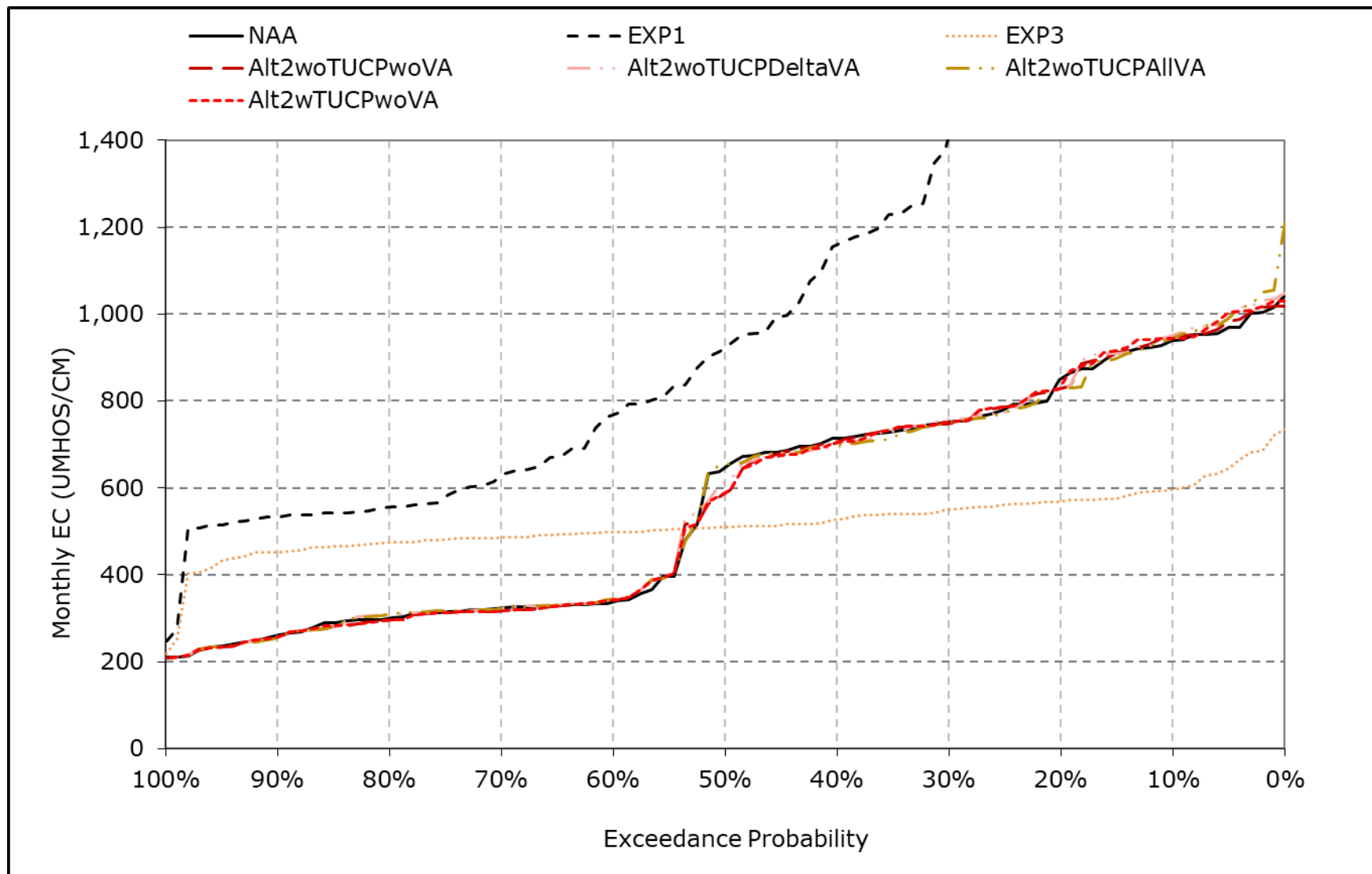
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-16. Old River at Rock Slough Salinity, October EC**



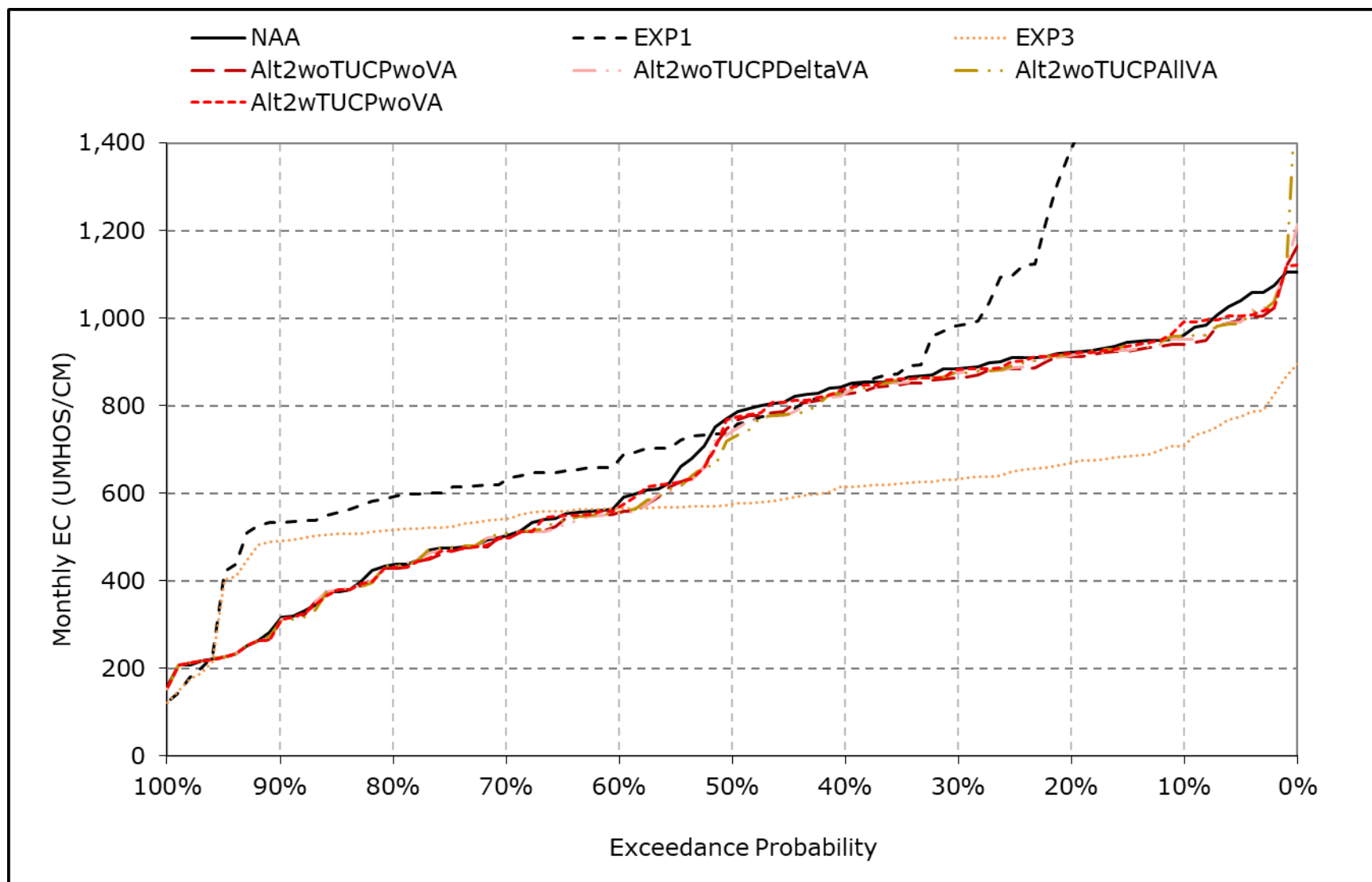
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-17. Old River at Rock Slough Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-9-18. Old River at Rock Slough Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-10-1a. San Joaquin River at Antioch Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 6,697 | 6,649 | 4,952 | 3,924 | 1,433 | 958   | 1,506 | 2,780 | 4,323 | 5,008 | 5,675 | 6,271 |
| 20% Exceedance                              | 6,321 | 6,119 | 4,355 | 3,008 | 847   | 571   | 880   | 1,037 | 1,841 | 3,011 | 4,413 | 6,088 |
| 30% Exceedance                              | 6,011 | 5,883 | 4,146 | 1,557 | 611   | 303   | 468   | 915   | 1,540 | 2,713 | 4,102 | 5,883 |
| 40% Exceedance                              | 5,612 | 5,263 | 3,614 | 979   | 336   | 268   | 305   | 725   | 1,391 | 2,389 | 3,841 | 5,606 |
| 50% Exceedance                              | 5,037 | 3,250 | 2,677 | 617   | 253   | 250   | 266   | 457   | 1,136 | 1,895 | 3,220 | 4,790 |
| 60% Exceedance                              | 1,159 | 2,959 | 1,447 | 380   | 240   | 231   | 242   | 349   | 1,025 | 1,291 | 2,231 | 1,486 |
| 70% Exceedance                              | 1,023 | 2,834 | 1,007 | 237   | 222   | 222   | 226   | 266   | 848   | 1,156 | 2,031 | 1,354 |
| 80% Exceedance                              | 957   | 2,255 | 738   | 219   | 212   | 212   | 215   | 214   | 557   | 1,054 | 1,879 | 1,284 |
| 90% Exceedance                              | 905   | 1,174 | 470   | 203   | 201   | 203   | 203   | 187   | 311   | 810   | 1,733 | 1,207 |
| Full Simulation Period Average <sup>a</sup> | 3,746 | 4,096 | 2,638 | 1,373 | 603   | 425   | 607   | 964   | 1,520 | 2,246 | 3,300 | 3,872 |
| Wet Water Years (28%)                       | 951   | 2,140 | 2,146 | 263   | 213   | 212   | 211   | 267   | 562   | 941   | 1,817 | 1,264 |
| Above Normal Years (14%)                    | 908   | 2,503 | 2,399 | 770   | 274   | 223   | 238   | 371   | 804   | 1,102 | 1,976 | 1,264 |
| Below Normal Years (18%)                    | 5,102 | 5,002 | 2,219 | 1,121 | 460   | 286   | 370   | 558   | 1,304 | 2,024 | 3,420 | 5,105 |
| Dry Water Years (24%)                       | 5,747 | 5,077 | 2,741 | 2,170 | 788   | 459   | 504   | 807   | 1,466 | 2,720 | 4,119 | 5,901 |
| Critical Water Years (16%)                  | 6,974 | 6,685 | 4,134 | 2,930 | 1,459 | 1,084 | 2,042 | 3,397 | 4,149 | 5,073 | 5,693 | 6,287 |

**Table F.2.5-10-1b. San Joaquin River at Antioch Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 7,162 | 6,268 | 4,912 | 3,761 | 1,327 | 684 | 1,084 | 1,763 | 2,299 | 3,535 | 4,785 | 6,417 |
| 20% Exceedance                              | 6,500 | 5,959 | 4,432 | 2,440 | 751   | 442 | 679   | 1,134 | 1,760 | 2,929 | 4,471 | 6,208 |
| 30% Exceedance                              | 6,008 | 5,728 | 4,094 | 1,378 | 529   | 293 | 441   | 1,062 | 1,578 | 2,635 | 4,113 | 5,974 |
| 40% Exceedance                              | 5,703 | 5,281 | 3,618 | 1,063 | 338   | 263 | 327   | 889   | 1,402 | 2,289 | 3,785 | 5,693 |
| 50% Exceedance                              | 4,863 | 3,207 | 2,332 | 676   | 253   | 250 | 270   | 595   | 1,109 | 1,890 | 3,214 | 5,119 |
| 60% Exceedance                              | 1,146 | 2,903 | 1,397 | 358   | 241   | 232 | 239   | 396   | 1,028 | 1,316 | 2,339 | 1,559 |
| 70% Exceedance                              | 1,057 | 2,679 | 960   | 239   | 222   | 221 | 226   | 277   | 886   | 1,236 | 2,123 | 1,426 |
| 80% Exceedance                              | 949   | 2,232 | 707   | 219   | 211   | 212 | 213   | 212   | 539   | 1,091 | 1,983 | 1,324 |
| 90% Exceedance                              | 901   | 1,184 | 426   | 203   | 202   | 203 | 202   | 186   | 308   | 836   | 1,885 | 1,252 |
| Full Simulation Period Average <sup>a</sup> | 3,803 | 3,962 | 2,618 | 1,328 | 572   | 396 | 492   | 848   | 1,375 | 2,077 | 3,204 | 3,963 |
| Wet Water Years (28%)                       | 958   | 2,129 | 2,156 | 250   | 213   | 211 | 212   | 296   | 564   | 972   | 1,921 | 1,311 |
| Above Normal Years (14%)                    | 888   | 2,415 | 2,413 | 762   | 275   | 223 | 238   | 430   | 788   | 1,154 | 2,063 | 1,327 |
| Below Normal Years (18%)                    | 5,114 | 4,806 | 2,146 | 1,172 | 445   | 284 | 385   | 685   | 1,322 | 2,009 | 3,309 | 5,211 |
| Dry Water Years (24%)                       | 5,793 | 5,093 | 2,754 | 1,998 | 698   | 448 | 526   | 885   | 1,506 | 2,742 | 4,194 | 5,993 |
| Critical Water Years (16%)                  | 7,268 | 6,105 | 4,031 | 2,878 | 1,413 | 920 | 1,274 | 2,311 | 3,172 | 3,895 | 4,845 | 6,465 |

**Table F.2.5-10-1c. San Joaquin River at Antioch Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May    | Jun    | Jul    | Aug  | Sep |
|---------------------------------------------|------|------|------|------|------|------|------|--------|--------|--------|------|-----|
| 10% Exceedance                              | 465  | -381 | -40  | -162 | -106 | -274 | -422 | -1,017 | -2,024 | -1,473 | -890 | 146 |
| 20% Exceedance                              | 179  | -160 | 77   | -568 | -96  | -129 | -201 | 97     | -81    | -82    | 58   | 120 |
| 30% Exceedance                              | -3   | -155 | -52  | -178 | -82  | -10  | -28  | 147    | 38     | -78    | 11   | 91  |
| 40% Exceedance                              | 91   | 18   | 3    | 84   | 2    | -5   | 22   | 164    | 11     | -100   | -56  | 87  |
| 50% Exceedance                              | -174 | -43  | -345 | 59   | 0    | 0    | 4    | 138    | -27    | -5     | -6   | 329 |
| 60% Exceedance                              | -13  | -56  | -51  | -22  | 1    | 0    | -3   | 47     | 3      | 26     | 107  | 73  |
| 70% Exceedance                              | 33   | -155 | -47  | 1    | 1    | -1   | 0    | 11     | 38     | 80     | 92   | 72  |
| 80% Exceedance                              | -8   | -23  | -31  | -1   | -1   | 0    | -2   | -2     | -19    | 38     | 103  | 41  |
| 90% Exceedance                              | -4   | 10   | -44  | 0    | 0    | 0    | -1   | 0      | -2     | 26     | 151  | 45  |
| Full Simulation Period Average <sup>a</sup> | 56   | -135 | -21  | -45  | -32  | -29  | -115 | -116   | -145   | -170   | -96  | 91  |
| Wet Water Years (28%)                       | 7    | -11  | 9    | -13  | 0    | 0    | 2    | 29     | 2      | 31     | 105  | 47  |
| Above Normal Years (14%)                    | -20  | -88  | 14   | -7   | 1    | 1    | 0    | 59     | -16    | 53     | 87   | 63  |
| Below Normal Years (18%)                    | 12   | -196 | -73  | 51   | -14  | -2   | 15   | 126    | 18     | -14    | -111 | 106 |
| Dry Water Years (24%)                       | 46   | 16   | 13   | -173 | -90  | -11  | 21   | 77     | 40     | 22     | 75   | 91  |
| Critical Water Years (16%)                  | 294  | -580 | -103 | -52  | -46  | -164 | -767 | -1,086 | -977   | -1,179 | -847 | 178 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-10-2a. San Joaquin River at Antioch Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 6,697 | 6,649 | 4,952 | 3,924 | 1,433 | 958   | 1,506 | 2,780 | 4,323 | 5,008 | 5,675 | 6,271 |
| 20% Exceedance                              | 6,321 | 6,119 | 4,355 | 3,008 | 847   | 571   | 880   | 1,037 | 1,841 | 3,011 | 4,413 | 6,088 |
| 30% Exceedance                              | 6,011 | 5,883 | 4,146 | 1,557 | 611   | 303   | 468   | 915   | 1,540 | 2,713 | 4,102 | 5,883 |
| 40% Exceedance                              | 5,612 | 5,263 | 3,614 | 979   | 336   | 268   | 305   | 725   | 1,391 | 2,389 | 3,841 | 5,606 |
| 50% Exceedance                              | 5,037 | 3,250 | 2,677 | 617   | 253   | 250   | 266   | 457   | 1,136 | 1,895 | 3,220 | 4,790 |
| 60% Exceedance                              | 1,159 | 2,959 | 1,447 | 380   | 240   | 231   | 242   | 349   | 1,025 | 1,291 | 2,231 | 1,486 |
| 70% Exceedance                              | 1,023 | 2,834 | 1,007 | 237   | 222   | 222   | 226   | 266   | 848   | 1,156 | 2,031 | 1,354 |
| 80% Exceedance                              | 957   | 2,255 | 738   | 219   | 212   | 212   | 215   | 214   | 557   | 1,054 | 1,879 | 1,284 |
| 90% Exceedance                              | 905   | 1,174 | 470   | 203   | 201   | 203   | 203   | 187   | 311   | 810   | 1,733 | 1,207 |
| Full Simulation Period Average <sup>a</sup> | 3,746 | 4,096 | 2,638 | 1,373 | 603   | 425   | 607   | 964   | 1,520 | 2,246 | 3,300 | 3,872 |
| Wet Water Years (28%)                       | 951   | 2,140 | 2,146 | 263   | 213   | 212   | 211   | 267   | 562   | 941   | 1,817 | 1,264 |
| Above Normal Years (14%)                    | 908   | 2,503 | 2,399 | 770   | 274   | 223   | 238   | 371   | 804   | 1,102 | 1,976 | 1,264 |
| Below Normal Years (18%)                    | 5,102 | 5,002 | 2,219 | 1,121 | 460   | 286   | 370   | 558   | 1,304 | 2,024 | 3,420 | 5,105 |
| Dry Water Years (24%)                       | 5,747 | 5,077 | 2,741 | 2,170 | 788   | 459   | 504   | 807   | 1,466 | 2,720 | 4,119 | 5,901 |
| Critical Water Years (16%)                  | 6,974 | 6,685 | 4,134 | 2,930 | 1,459 | 1,084 | 2,042 | 3,397 | 4,149 | 5,073 | 5,693 | 6,287 |

**Table F.2.5-10-2b. San Joaquin River at Antioch Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 7,167 | 6,318 | 4,845 | 3,767 | 1,325 | 730 | 1,022 | 1,773 | 2,280 | 3,561 | 4,889 | 6,461 |
| 20% Exceedance                              | 6,507 | 6,006 | 4,410 | 2,430 | 805   | 417 | 567   | 1,128 | 1,822 | 2,972 | 4,501 | 6,192 |
| 30% Exceedance                              | 5,968 | 5,769 | 4,002 | 1,494 | 535   | 292 | 436   | 1,051 | 1,628 | 2,692 | 4,176 | 5,954 |
| 40% Exceedance                              | 5,600 | 5,211 | 3,640 | 1,026 | 338   | 261 | 305   | 800   | 1,378 | 2,331 | 3,830 | 5,742 |
| 50% Exceedance                              | 4,962 | 3,225 | 2,343 | 727   | 254   | 249 | 267   | 576   | 1,118 | 1,887 | 3,210 | 5,096 |
| 60% Exceedance                              | 1,146 | 2,908 | 1,424 | 381   | 241   | 233 | 246   | 392   | 1,044 | 1,318 | 2,303 | 1,556 |
| 70% Exceedance                              | 1,053 | 2,693 | 956   | 240   | 222   | 226 | 227   | 289   | 892   | 1,202 | 2,115 | 1,431 |
| 80% Exceedance                              | 947   | 2,234 | 707   | 219   | 211   | 213 | 218   | 216   | 537   | 1,076 | 1,989 | 1,326 |
| 90% Exceedance                              | 890   | 1,239 | 432   | 203   | 202   | 203 | 203   | 187   | 310   | 837   | 1,826 | 1,248 |
| Full Simulation Period Average <sup>a</sup> | 3,817 | 3,971 | 2,608 | 1,346 | 606   | 385 | 473   | 836   | 1,385 | 2,085 | 3,219 | 3,973 |
| Wet Water Years (28%)                       | 961   | 2,133 | 2,142 | 254   | 213   | 212 | 214   | 296   | 571   | 957   | 1,909 | 1,311 |
| Above Normal Years (14%)                    | 892   | 2,423 | 2,359 | 764   | 275   | 228 | 240   | 398   | 805   | 1,139 | 2,028 | 1,327 |
| Below Normal Years (18%)                    | 5,117 | 4,794 | 2,176 | 1,182 | 454   | 270 | 352   | 681   | 1,342 | 2,018 | 3,317 | 5,201 |
| Dry Water Years (24%)                       | 5,801 | 5,089 | 2,699 | 2,029 | 714   | 392 | 468   | 852   | 1,512 | 2,778 | 4,259 | 6,006 |
| Critical Water Years (16%)                  | 7,337 | 6,173 | 4,098 | 2,927 | 1,594 | 944 | 1,275 | 2,313 | 3,173 | 3,923 | 4,885 | 6,513 |

**Table F.2.5-10-2c. San Joaquin River at Antioch Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May    | Jun    | Jul    | Aug  | Sep |
|---------------------------------------------|-----|------|------|------|------|------|------|--------|--------|--------|------|-----|
| 10% Exceedance                              | 470 | -331 | -107 | -157 | -109 | -228 | -483 | -1,007 | -2,042 | -1,447 | -786 | 190 |
| 20% Exceedance                              | 186 | -113 | 55   | -578 | -43  | -154 | -313 | 91     | -19    | -39    | 88   | 104 |
| 30% Exceedance                              | -43 | -115 | -145 | -63  | -76  | -11  | -32  | 136    | 88     | -20    | 74   | 71  |
| 40% Exceedance                              | -12 | -53  | 26   | 47   | 2    | -8   | 0    | 75     | -13    | -58    | -11  | 135 |
| 50% Exceedance                              | -76 | -25  | -334 | 110  | 1    | -1   | 1    | 119    | -18    | -8     | -10  | 307 |
| 60% Exceedance                              | -13 | -51  | -24  | 0    | 1    | 2    | 5    | 43     | 20     | 28     | 72   | 70  |
| 70% Exceedance                              | 29  | -141 | -51  | 3    | 1    | 4    | 2    | 22     | 44     | 47     | 83   | 77  |
| 80% Exceedance                              | -9  | -22  | -31  | 0    | -1   | 1    | 3    | 1      | -20    | 23     | 109  | 43  |
| 90% Exceedance                              | -15 | 65   | -38  | 0    | 0    | 0    | 0    | 0      | -1     | 27     | 92   | 41  |
| Full Simulation Period Average <sup>a</sup> | 70  | -125 | -30  | -27  | 3    | -40  | -134 | -129   | -136   | -161   | -81  | 101 |
| Wet Water Years (28%)                       | 9   | -7   | -4   | -9   | 0    | 0    | 3    | 30     | 9      | 17     | 92   | 47  |
| Above Normal Years (14%)                    | -16 | -80  | -40  | -6   | 1    | 5    | 1    | 27     | 1      | 38     | 52   | 63  |
| Below Normal Years (18%)                    | 15  | -208 | -43  | 62   | -6   | -16  | -18  | 122    | 38     | -5     | -103 | 96  |
| Dry Water Years (24%)                       | 54  | 12   | -42  | -141 | -74  | -67  | -37  | 44     | 46     | 58     | 141  | 105 |
| Critical Water Years (16%)                  | 363 | -512 | -36  | -3   | 135  | -140 | -767 | -1,084 | -977   | -1,151 | -807 | 226 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-10-3a. San Joaquin River at Antioch Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 6,697 | 6,649 | 4,952 | 3,924 | 1,433 | 958   | 1,506 | 2,780 | 4,323 | 5,008 | 5,675 | 6,271 |
| 20% Exceedance                              | 6,321 | 6,119 | 4,355 | 3,008 | 847   | 571   | 880   | 1,037 | 1,841 | 3,011 | 4,413 | 6,088 |
| 30% Exceedance                              | 6,011 | 5,883 | 4,146 | 1,557 | 611   | 303   | 468   | 915   | 1,540 | 2,713 | 4,102 | 5,883 |
| 40% Exceedance                              | 5,612 | 5,263 | 3,614 | 979   | 336   | 268   | 305   | 725   | 1,391 | 2,389 | 3,841 | 5,606 |
| 50% Exceedance                              | 5,037 | 3,250 | 2,677 | 617   | 253   | 250   | 266   | 457   | 1,136 | 1,895 | 3,220 | 4,790 |
| 60% Exceedance                              | 1,159 | 2,959 | 1,447 | 380   | 240   | 231   | 242   | 349   | 1,025 | 1,291 | 2,231 | 1,486 |
| 70% Exceedance                              | 1,023 | 2,834 | 1,007 | 237   | 222   | 222   | 226   | 266   | 848   | 1,156 | 2,031 | 1,354 |
| 80% Exceedance                              | 957   | 2,255 | 738   | 219   | 212   | 212   | 215   | 214   | 557   | 1,054 | 1,879 | 1,284 |
| 90% Exceedance                              | 905   | 1,174 | 470   | 203   | 201   | 203   | 203   | 187   | 311   | 810   | 1,733 | 1,207 |
| Full Simulation Period Average <sup>a</sup> | 3,746 | 4,096 | 2,638 | 1,373 | 603   | 425   | 607   | 964   | 1,520 | 2,246 | 3,300 | 3,872 |
| Wet Water Years (28%)                       | 951   | 2,140 | 2,146 | 263   | 213   | 212   | 211   | 267   | 562   | 941   | 1,817 | 1,264 |
| Above Normal Years (14%)                    | 908   | 2,503 | 2,399 | 770   | 274   | 223   | 238   | 371   | 804   | 1,102 | 1,976 | 1,264 |
| Below Normal Years (18%)                    | 5,102 | 5,002 | 2,219 | 1,121 | 460   | 286   | 370   | 558   | 1,304 | 2,024 | 3,420 | 5,105 |
| Dry Water Years (24%)                       | 5,747 | 5,077 | 2,741 | 2,170 | 788   | 459   | 504   | 807   | 1,466 | 2,720 | 4,119 | 5,901 |
| Critical Water Years (16%)                  | 6,974 | 6,685 | 4,134 | 2,930 | 1,459 | 1,084 | 2,042 | 3,397 | 4,149 | 5,073 | 5,693 | 6,287 |

**Table F.2.5-10-3b. San Joaquin River at Antioch Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 7,170 | 6,352 | 4,687 | 3,822 | 1,378 | 719 | 948   | 1,609 | 2,121 | 3,642 | 4,865 | 6,444 |
| 20% Exceedance                              | 6,360 | 6,039 | 4,385 | 2,580 | 805   | 411 | 499   | 984   | 1,720 | 2,957 | 4,489 | 6,157 |
| 30% Exceedance                              | 5,976 | 5,710 | 3,973 | 1,438 | 549   | 291 | 353   | 870   | 1,567 | 2,718 | 4,168 | 5,971 |
| 40% Exceedance                              | 5,660 | 5,257 | 3,616 | 997   | 338   | 259 | 278   | 673   | 1,330 | 2,288 | 3,826 | 5,726 |
| 50% Exceedance                              | 5,028 | 3,227 | 2,433 | 746   | 254   | 248 | 256   | 435   | 1,126 | 1,945 | 3,153 | 5,092 |
| 60% Exceedance                              | 1,137 | 2,908 | 1,361 | 384   | 241   | 234 | 239   | 336   | 1,035 | 1,308 | 2,211 | 1,529 |
| 70% Exceedance                              | 1,054 | 2,689 | 968   | 239   | 223   | 225 | 226   | 268   | 859   | 1,192 | 2,091 | 1,400 |
| 80% Exceedance                              | 952   | 2,234 | 713   | 219   | 212   | 213 | 218   | 213   | 545   | 1,050 | 1,979 | 1,325 |
| 90% Exceedance                              | 895   | 1,192 | 439   | 203   | 202   | 203 | 202   | 187   | 310   | 828   | 1,779 | 1,245 |
| Full Simulation Period Average <sup>a</sup> | 3,803 | 3,999 | 2,597 | 1,344 | 618   | 383 | 432   | 717   | 1,318 | 2,074 | 3,200 | 3,955 |
| Wet Water Years (28%)                       | 959   | 2,134 | 2,140 | 257   | 213   | 212 | 213   | 290   | 571   | 954   | 1,898 | 1,308 |
| Above Normal Years (14%)                    | 894   | 2,422 | 2,354 | 760   | 275   | 228 | 236   | 336   | 780   | 1,118 | 1,978 | 1,318 |
| Below Normal Years (18%)                    | 5,132 | 4,876 | 2,136 | 1,139 | 454   | 270 | 297   | 526   | 1,297 | 2,021 | 3,287 | 5,127 |
| Dry Water Years (24%)                       | 5,757 | 5,017 | 2,684 | 1,969 | 720   | 388 | 405   | 713   | 1,437 | 2,793 | 4,267 | 5,999 |
| Critical Water Years (16%)                  | 7,298 | 6,377 | 4,110 | 3,050 | 1,661 | 940 | 1,180 | 2,019 | 2,939 | 3,855 | 4,847 | 6,511 |

**Table F.2.5-10-3c. San Joaquin River at Antioch Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec  | Jan  | Feb | Mar  | Apr  | May    | Jun    | Jul    | Aug  | Sep |
|---------------------------------------------|-----|------|------|------|-----|------|------|--------|--------|--------|------|-----|
| 10% Exceedance                              | 473 | -297 | -266 | -102 | -55 | -239 | -557 | -1,171 | -2,202 | -1,366 | -810 | 173 |
| 20% Exceedance                              | 39  | -80  | 30   | -428 | -42 | -160 | -381 | -54    | -121   | -54    | 76   | 69  |
| 30% Exceedance                              | -35 | -173 | -173 | -118 | -61 | -11  | -115 | -45    | 27     | 6      | 66   | 88  |
| 40% Exceedance                              | 48  | -6   | 1    | 18   | 2   | -9   | -27  | -52    | -61    | -101   | -15  | 120 |
| 50% Exceedance                              | -9  | -23  | -244 | 129  | 1   | -1   | -10  | -22    | -10    | 50     | -67  | 302 |
| 60% Exceedance                              | -22 | -50  | -87  | 4    | 1   | 2    | -3   | -13    | 11     | 17     | -20  | 43  |
| 70% Exceedance                              | 30  | -146 | -39  | 2    | 1   | 3    | 1    | 2      | 11     | 37     | 60   | 46  |
| 80% Exceedance                              | -5  | -21  | -25  | 0    | 0   | 1    | 3    | -1     | -12    | -4     | 100  | 41  |
| 90% Exceedance                              | -10 | 18   | -31  | 0    | 0   | 0    | -1   | 0      | 0      | 19     | 46   | 37  |
| Full Simulation Period Average <sup>a</sup> | 56  | -97  | -41  | -29  | 15  | -42  | -174 | -247   | -203   | -172   | -101 | 83  |
| Wet Water Years (28%)                       | 8   | -6   | -6   | -6   | 0   | 0    | 2    | 23     | 9      | 13     | 82   | 43  |
| Above Normal Years (14%)                    | -14 | -81  | -45  | -9   | 1   | 5    | -2   | -34    | -24    | 16     | 2    | 55  |
| Below Normal Years (18%)                    | 30  | -126 | -83  | 18   | -6  | -16  | -73  | -33    | -7     | -2     | -134 | 22  |
| Dry Water Years (24%)                       | 10  | -60  | -57  | -202 | -67 | -71  | -99  | -94    | -29    | 73     | 148  | 98  |
| Critical Water Years (16%)                  | 324 | -308 | -24  | 120  | 202 | -144 | -862 | -1,378 | -1,211 | -1,219 | -845 | 224 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-10-4a. San Joaquin River at Antioch Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 6,697 | 6,649 | 4,952 | 3,924 | 1,433 | 958   | 1,506 | 2,780 | 4,323 | 5,008 | 5,675 | 6,271 |
| 20% Exceedance                              | 6,321 | 6,119 | 4,355 | 3,008 | 847   | 571   | 880   | 1,037 | 1,841 | 3,011 | 4,413 | 6,088 |
| 30% Exceedance                              | 6,011 | 5,883 | 4,146 | 1,557 | 611   | 303   | 468   | 915   | 1,540 | 2,713 | 4,102 | 5,883 |
| 40% Exceedance                              | 5,612 | 5,263 | 3,614 | 979   | 336   | 268   | 305   | 725   | 1,391 | 2,389 | 3,841 | 5,606 |
| 50% Exceedance                              | 5,037 | 3,250 | 2,677 | 617   | 253   | 250   | 266   | 457   | 1,136 | 1,895 | 3,220 | 4,790 |
| 60% Exceedance                              | 1,159 | 2,959 | 1,447 | 380   | 240   | 231   | 242   | 349   | 1,025 | 1,291 | 2,231 | 1,486 |
| 70% Exceedance                              | 1,023 | 2,834 | 1,007 | 237   | 222   | 222   | 226   | 266   | 848   | 1,156 | 2,031 | 1,354 |
| 80% Exceedance                              | 957   | 2,255 | 738   | 219   | 212   | 212   | 215   | 214   | 557   | 1,054 | 1,879 | 1,284 |
| 90% Exceedance                              | 905   | 1,174 | 470   | 203   | 201   | 203   | 203   | 187   | 311   | 810   | 1,733 | 1,207 |
| Full Simulation Period Average <sup>a</sup> | 3,746 | 4,096 | 2,638 | 1,373 | 603   | 425   | 607   | 964   | 1,520 | 2,246 | 3,300 | 3,872 |
| Wet Water Years (28%)                       | 951   | 2,140 | 2,146 | 263   | 213   | 212   | 211   | 267   | 562   | 941   | 1,817 | 1,264 |
| Above Normal Years (14%)                    | 908   | 2,503 | 2,399 | 770   | 274   | 223   | 238   | 371   | 804   | 1,102 | 1,976 | 1,264 |
| Below Normal Years (18%)                    | 5,102 | 5,002 | 2,219 | 1,121 | 460   | 286   | 370   | 558   | 1,304 | 2,024 | 3,420 | 5,105 |
| Dry Water Years (24%)                       | 5,747 | 5,077 | 2,741 | 2,170 | 788   | 459   | 504   | 807   | 1,466 | 2,720 | 4,119 | 5,901 |
| Critical Water Years (16%)                  | 6,974 | 6,685 | 4,134 | 2,930 | 1,459 | 1,084 | 2,042 | 3,397 | 4,149 | 5,073 | 5,693 | 6,287 |

**Table F.2.5-10-4b. San Joaquin River at Antioch Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 6,766 | 6,563 | 4,920 | 3,703 | 1,319 | 963   | 1,333 | 2,636 | 4,289 | 5,037 | 5,269 | 6,315 |
| 20% Exceedance                              | 6,506 | 6,085 | 4,458 | 2,553 | 755   | 585   | 907   | 1,134 | 1,837 | 2,987 | 4,542 | 6,122 |
| 30% Exceedance                              | 6,006 | 5,750 | 4,271 | 1,544 | 528   | 304   | 478   | 1,062 | 1,614 | 2,662 | 4,108 | 5,927 |
| 40% Exceedance                              | 5,683 | 5,311 | 3,712 | 987   | 331   | 262   | 327   | 867   | 1,415 | 2,336 | 3,760 | 5,671 |
| 50% Exceedance                              | 4,880 | 3,208 | 2,356 | 595   | 253   | 250   | 270   | 596   | 1,114 | 1,899 | 3,214 | 5,084 |
| 60% Exceedance                              | 1,148 | 2,903 | 1,408 | 358   | 241   | 232   | 239   | 396   | 1,027 | 1,320 | 2,339 | 1,560 |
| 70% Exceedance                              | 1,057 | 2,678 | 1,002 | 237   | 222   | 221   | 225   | 277   | 886   | 1,235 | 2,122 | 1,426 |
| 80% Exceedance                              | 947   | 2,236 | 708   | 219   | 211   | 213   | 213   | 212   | 538   | 1,091 | 1,982 | 1,327 |
| 90% Exceedance                              | 902   | 1,181 | 421   | 203   | 202   | 203   | 203   | 186   | 306   | 835   | 1,885 | 1,252 |
| Full Simulation Period Average <sup>a</sup> | 3,764 | 4,031 | 2,637 | 1,285 | 566   | 425   | 606   | 1,003 | 1,513 | 2,245 | 3,323 | 3,928 |
| Wet Water Years (28%)                       | 958   | 2,129 | 2,153 | 250   | 213   | 211   | 213   | 295   | 564   | 971   | 1,921 | 1,312 |
| Above Normal Years (14%)                    | 895   | 2,416 | 2,415 | 763   | 274   | 223   | 238   | 429   | 788   | 1,155 | 2,065 | 1,329 |
| Below Normal Years (18%)                    | 5,089 | 4,806 | 2,177 | 1,129 | 442   | 282   | 385   | 685   | 1,319 | 2,001 | 3,314 | 5,176 |
| Dry Water Years (24%)                       | 5,793 | 5,085 | 2,806 | 2,035 | 701   | 448   | 526   | 884   | 1,505 | 2,745 | 4,193 | 5,990 |
| Critical Water Years (16%)                  | 7,032 | 6,581 | 4,046 | 2,602 | 1,379 | 1,102 | 1,988 | 3,280 | 4,040 | 4,953 | 5,580 | 6,284 |

**Table F.2.5-10-4c. San Joaquin River at Antioch Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|------|------|------|------|------|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | 69   | -86  | -32  | -221 | -114 | 4   | -172 | -144 | -33  | 29   | -406 | 44  |
| 20% Exceedance                              | 185  | -34  | 104  | -456 | -92  | 14  | 28   | 97   | -4   | -23  | 129  | 34  |
| 30% Exceedance                              | -5   | -133 | 124  | -13  | -83  | 2   | 10   | 147  | 74   | -51  | 6    | 44  |
| 40% Exceedance                              | 71   | 47   | 98   | 8    | -5   | -6  | 22   | 142  | 24   | -53  | -81  | 65  |
| 50% Exceedance                              | -157 | -42  | -321 | -22  | 0    | 0   | 4    | 140  | -22  | 4    | -6   | 294 |
| 60% Exceedance                              | -11  | -56  | -40  | -22  | 1    | 0   | -3   | 47   | 3    | 29   | 108  | 74  |
| 70% Exceedance                              | 33   | -156 | -5   | 0    | 1    | -1  | 0    | 11   | 37   | 79   | 91   | 72  |
| 80% Exceedance                              | -10  | -19  | -30  | -1   | -1   | 1   | -1   | -2   | -19  | 38   | 103  | 44  |
| 90% Exceedance                              | -3   | 7    | -49  | 0    | 0    | 0   | 0    | 0    | -4   | 25   | 152  | 45  |
| Full Simulation Period Average <sup>a</sup> | 17   | -65  | -1   | -88  | -37  | 0   | 0    | 39   | -7   | -1   | 22   | 56  |
| Wet Water Years (28%)                       | 7    | -11  | 7    | -13  | -1   | 0   | 2    | 29   | 2    | 31   | 105  | 47  |
| Above Normal Years (14%)                    | -13  | -87  | 16   | -7   | 0    | 0   | 0    | 59   | -16  | 53   | 89   | 65  |
| Below Normal Years (18%)                    | -14  | -196 | -42  | 8    | -18  | -4  | 15   | 127  | 15   | -22  | -107 | 71  |
| Dry Water Years (24%)                       | 46   | 8    | 65   | -136 | -87  | -11 | 21   | 77   | 39   | 25   | 75   | 89  |
| Critical Water Years (16%)                  | 58   | -104 | -88  | -329 | -80  | 18  | -53  | -117 | -109 | -120 | -113 | -3  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-10-5a. San Joaquin River at Antioch Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 6,697 | 6,649 | 4,952 | 3,924 | 1,433 | 958   | 1,506 | 2,780 | 4,323 | 5,008 | 5,675 | 6,271 |
| 20% Exceedance                              | 6,321 | 6,119 | 4,355 | 3,008 | 847   | 571   | 880   | 1,037 | 1,841 | 3,011 | 4,413 | 6,088 |
| 30% Exceedance                              | 6,011 | 5,883 | 4,146 | 1,557 | 611   | 303   | 468   | 915   | 1,540 | 2,713 | 4,102 | 5,883 |
| 40% Exceedance                              | 5,612 | 5,263 | 3,614 | 979   | 336   | 268   | 305   | 725   | 1,391 | 2,389 | 3,841 | 5,606 |
| 50% Exceedance                              | 5,037 | 3,250 | 2,677 | 617   | 253   | 250   | 266   | 457   | 1,136 | 1,895 | 3,220 | 4,790 |
| 60% Exceedance                              | 1,159 | 2,959 | 1,447 | 380   | 240   | 231   | 242   | 349   | 1,025 | 1,291 | 2,231 | 1,486 |
| 70% Exceedance                              | 1,023 | 2,834 | 1,007 | 237   | 222   | 222   | 226   | 266   | 848   | 1,156 | 2,031 | 1,354 |
| 80% Exceedance                              | 957   | 2,255 | 738   | 219   | 212   | 212   | 215   | 214   | 557   | 1,054 | 1,879 | 1,284 |
| 90% Exceedance                              | 905   | 1,174 | 470   | 203   | 201   | 203   | 203   | 187   | 311   | 810   | 1,733 | 1,207 |
| Full Simulation Period Average <sup>a</sup> | 3,746 | 4,096 | 2,638 | 1,373 | 603   | 425   | 607   | 964   | 1,520 | 2,246 | 3,300 | 3,872 |
| Wet Water Years (28%)                       | 951   | 2,140 | 2,146 | 263   | 213   | 212   | 211   | 267   | 562   | 941   | 1,817 | 1,264 |
| Above Normal Years (14%)                    | 908   | 2,503 | 2,399 | 770   | 274   | 223   | 238   | 371   | 804   | 1,102 | 1,976 | 1,264 |
| Below Normal Years (18%)                    | 5,102 | 5,002 | 2,219 | 1,121 | 460   | 286   | 370   | 558   | 1,304 | 2,024 | 3,420 | 5,105 |
| Dry Water Years (24%)                       | 5,747 | 5,077 | 2,741 | 2,170 | 788   | 459   | 504   | 807   | 1,466 | 2,720 | 4,119 | 5,901 |
| Critical Water Years (16%)                  | 6,974 | 6,685 | 4,134 | 2,930 | 1,459 | 1,084 | 2,042 | 3,397 | 4,149 | 5,073 | 5,693 | 6,287 |

**Table F.2.5-10-5b. San Joaquin River at Antioch Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 2,885 | 2,674 | 1,516 | 577   | 400 | 455 | 1,035 | 1,723 | 3,379 | 4,381 | 4,943 | 4,056 |
| 20% Exceedance                              | 2,129 | 1,700 | 859   | 423   | 361 | 386 | 615   | 1,300 | 2,924 | 3,920 | 4,415 | 3,360 |
| 30% Exceedance                              | 1,744 | 1,307 | 624   | 354   | 338 | 334 | 479   | 967   | 2,651 | 3,414 | 4,060 | 2,916 |
| 40% Exceedance                              | 1,386 | 1,010 | 364   | 332   | 317 | 320 | 369   | 567   | 1,882 | 2,828 | 3,411 | 2,403 |
| 50% Exceedance                              | 1,198 | 793   | 296   | 291   | 307 | 305 | 324   | 406   | 1,232 | 2,030 | 2,882 | 2,191 |
| 60% Exceedance                              | 964   | 614   | 276   | 277   | 297 | 298 | 303   | 306   | 860   | 1,643 | 2,511 | 1,795 |
| 70% Exceedance                              | 809   | 499   | 266   | 265   | 280 | 284 | 281   | 284   | 540   | 1,218 | 2,149 | 1,412 |
| 80% Exceedance                              | 681   | 384   | 257   | 252   | 252 | 270 | 251   | 248   | 304   | 866   | 1,706 | 1,102 |
| 90% Exceedance                              | 550   | 334   | 235   | 229   | 219 | 220 | 212   | 172   | 206   | 675   | 1,134 | 651   |
| Full Simulation Period Average <sup>a</sup> | 1,437 | 1,160 | 631   | 442   | 354 | 340 | 490   | 761   | 1,616 | 2,404 | 3,047 | 2,265 |
| Wet Water Years (28%)                       | 741   | 509   | 293   | 254   | 255 | 249 | 235   | 228   | 420   | 867   | 1,470 | 1,058 |
| Above Normal Years (14%)                    | 952   | 751   | 323   | 291   | 296 | 291 | 298   | 347   | 850   | 1,338 | 2,091 | 1,595 |
| Below Normal Years (18%)                    | 1,248 | 965   | 561   | 297   | 315 | 311 | 384   | 621   | 1,675 | 2,333 | 2,926 | 2,090 |
| Dry Water Years (24%)                       | 1,706 | 1,297 | 826   | 447   | 342 | 342 | 493   | 908   | 2,246 | 3,278 | 3,985 | 2,914 |
| Critical Water Years (16%)                  | 3,013 | 2,799 | 1,341 | 1,060 | 638 | 570 | 1,217 | 1,990 | 3,368 | 4,792 | 5,369 | 4,187 |

**Table F.2.5-10-5c. San Joaquin River at Antioch Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar  | Apr  | May    | Jun   | Jul  | Aug  | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|------|------|--------|-------|------|------|--------|
| 10% Exceedance                              | -3,812 | -3,975 | -3,437 | -3,346 | -1,034 | -503 | -470 | -1,057 | -943  | -627 | -732 | -2,216 |
| 20% Exceedance                              | -4,192 | -4,419 | -3,495 | -2,585 | -487   | -185 | -265 | 263    | 1,083 | 909  | 2    | -2,728 |
| 30% Exceedance                              | -4,267 | -4,576 | -3,523 | -1,203 | -272   | 31   | 11   | 52     | 1,111 | 702  | -42  | -2,967 |
| 40% Exceedance                              | -4,226 | -4,253 | -3,250 | -648   | -19    | 52   | 64   | -158   | 491   | 439  | -431 | -3,203 |
| 50% Exceedance                              | -3,840 | -2,457 | -2,381 | -326   | 54     | 55   | 57   | -51    | 96    | 135  | -338 | -2,599 |
| 60% Exceedance                              | -195   | -2,345 | -1,172 | -103   | 57     | 67   | 61   | -43    | -164  | 352  | 280  | 309    |
| 70% Exceedance                              | -214   | -2,335 | -741   | 27     | 59     | 62   | 56   | 17     | -309  | 63   | 118  | 58     |
| 80% Exceedance                              | -276   | -1,871 | -481   | 33     | 40     | 58   | 36   | 34     | -254  | -187 | -173 | -181   |
| 90% Exceedance                              | -355   | -840   | -235   | 25     | 17     | 17   | 8    | -15    | -105  | -135 | -599 | -556   |
| Full Simulation Period Average <sup>a</sup> | -2,310 | -2,936 | -2,007 | -931   | -250   | -86  | -117 | -204   | 96    | 157  | -254 | -1,607 |
| Wet Water Years (28%)                       | -210   | -1,631 | -1,853 | -9     | 42     | 38   | 24   | -38    | -143  | -74  | -347 | -207   |
| Above Normal Years (14%)                    | 44     | -1,752 | -2,076 | -478   | 21     | 69   | 59   | -24    | 46    | 236  | 115  | 331    |
| Below Normal Years (18%)                    | -3,854 | -4,037 | -1,658 | -823   | -145   | 24   | 14   | 62     | 371   | 309  | -494 | -3,015 |
| Dry Water Years (24%)                       | -4,041 | -3,780 | -1,914 | -1,723 | -446   | -117 | -12  | 101    | 780   | 558  | -134 | -2,987 |
| Critical Water Years (16%)                  | -3,961 | -3,886 | -2,793 | -1,871 | -821   | -514 | -824 | -1,407 | -782  | -281 | -323 | -2,100 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-10-6a. San Joaquin River at Antioch Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 11,846 | 11,838 | 4,785 | 974   | 415   | 394 | 524   | 2,273 | 7,283 | 12,313 | 15,094 | 14,049 |
| 20% Exceedance                              | 10,326 | 7,008  | 2,367 | 584   | 365   | 336 | 362   | 1,101 | 5,374 | 11,189 | 14,641 | 13,189 |
| 30% Exceedance                              | 7,869  | 4,174  | 1,717 | 474   | 336   | 322 | 328   | 608   | 3,748 | 9,893  | 13,612 | 12,295 |
| 40% Exceedance                              | 5,379  | 2,728  | 1,030 | 400   | 325   | 308 | 301   | 454   | 2,619 | 8,277  | 12,874 | 11,216 |
| 50% Exceedance                              | 3,934  | 2,157  | 587   | 347   | 305   | 299 | 289   | 304   | 1,744 | 6,866  | 12,181 | 9,949  |
| 60% Exceedance                              | 2,478  | 1,444  | 448   | 303   | 298   | 290 | 277   | 271   | 963   | 5,304  | 10,728 | 7,422  |
| 70% Exceedance                              | 1,552  | 1,110  | 356   | 289   | 283   | 276 | 263   | 250   | 509   | 3,636  | 8,759  | 4,989  |
| 80% Exceedance                              | 1,252  | 688    | 312   | 261   | 253   | 257 | 231   | 231   | 271   | 2,097  | 5,278  | 3,326  |
| 90% Exceedance                              | 937    | 467    | 268   | 243   | 220   | 212 | 192   | 153   | 190   | 1,201  | 3,319  | 2,063  |
| Full Simulation Period Average <sup>a</sup> | 5,422  | 4,011  | 1,744 | 738   | 426   | 327 | 400   | 877   | 2,806 | 6,816  | 10,461 | 8,587  |
| Wet Water Years (28%)                       | 1,520  | 1,146  | 651   | 269   | 252   | 236 | 213   | 214   | 502   | 2,586  | 5,548  | 3,430  |
| Above Normal Years (14%)                    | 2,757  | 1,705  | 672   | 348   | 295   | 281 | 264   | 289   | 1,073 | 4,943  | 9,274  | 6,416  |
| Below Normal Years (18%)                    | 5,385  | 3,255  | 1,358 | 429   | 322   | 306 | 296   | 575   | 2,681 | 7,619  | 12,033 | 9,412  |
| Dry Water Years (24%)                       | 7,348  | 4,945  | 2,365 | 545   | 337   | 321 | 342   | 843   | 3,724 | 9,020  | 13,166 | 11,700 |
| Critical Water Years (16%)                  | 12,336 | 11,077 | 4,325 | 2,535 | 1,096 | 559 | 1,051 | 2,941 | 7,115 | 11,651 | 14,269 | 13,915 |

**Table F.2.5-10-6b. San Joaquin River at Antioch Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 7,162 | 6,268 | 4,912 | 3,761 | 1,327 | 684 | 1,084 | 1,763 | 2,299 | 3,535 | 4,785 | 6,417 |
| 20% Exceedance                              | 6,500 | 5,959 | 4,432 | 2,440 | 751   | 442 | 679   | 1,134 | 1,760 | 2,929 | 4,471 | 6,208 |
| 30% Exceedance                              | 6,008 | 5,728 | 4,094 | 1,378 | 529   | 293 | 441   | 1,062 | 1,578 | 2,635 | 4,113 | 5,974 |
| 40% Exceedance                              | 5,703 | 5,281 | 3,618 | 1,063 | 338   | 263 | 327   | 889   | 1,402 | 2,289 | 3,785 | 5,693 |
| 50% Exceedance                              | 4,863 | 3,207 | 2,332 | 676   | 253   | 250 | 270   | 595   | 1,109 | 1,890 | 3,214 | 5,119 |
| 60% Exceedance                              | 1,146 | 2,903 | 1,397 | 358   | 241   | 232 | 239   | 396   | 1,028 | 1,316 | 2,339 | 1,559 |
| 70% Exceedance                              | 1,057 | 2,679 | 960   | 239   | 222   | 221 | 226   | 277   | 886   | 1,236 | 2,123 | 1,426 |
| 80% Exceedance                              | 949   | 2,232 | 707   | 219   | 211   | 212 | 213   | 212   | 539   | 1,091 | 1,983 | 1,324 |
| 90% Exceedance                              | 901   | 1,184 | 426   | 203   | 202   | 203 | 202   | 186   | 308   | 836   | 1,885 | 1,252 |
| Full Simulation Period Average <sup>a</sup> | 3,803 | 3,962 | 2,618 | 1,328 | 572   | 396 | 492   | 848   | 1,375 | 2,077 | 3,204 | 3,963 |
| Wet Water Years (28%)                       | 958   | 2,129 | 2,156 | 250   | 213   | 211 | 212   | 296   | 564   | 972   | 1,921 | 1,311 |
| Above Normal Years (14%)                    | 888   | 2,415 | 2,413 | 762   | 275   | 223 | 238   | 430   | 788   | 1,154 | 2,063 | 1,327 |
| Below Normal Years (18%)                    | 5,114 | 4,806 | 2,146 | 1,172 | 445   | 284 | 385   | 685   | 1,322 | 2,009 | 3,309 | 5,211 |
| Dry Water Years (24%)                       | 5,793 | 5,093 | 2,754 | 1,998 | 698   | 448 | 526   | 885   | 1,506 | 2,742 | 4,194 | 5,993 |
| Critical Water Years (16%)                  | 7,268 | 6,105 | 4,031 | 2,878 | 1,413 | 920 | 1,274 | 2,311 | 3,172 | 3,895 | 4,845 | 6,465 |

**Table F.2.5-10-6c. San Joaquin River at Antioch Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb | Mar | Apr | May  | Jun    | Jul    | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-----|-----|-----|------|--------|--------|---------|--------|
| 10% Exceedance                              | -4,684 | -5,570 | 127   | 2,787 | 913 | 290 | 560 | -511 | -4,983 | -8,778 | -10,309 | -7,632 |
| 20% Exceedance                              | -3,826 | -1,050 | 2,065 | 1,856 | 386 | 106 | 317 | 33   | -3,613 | -8,260 | -10,170 | -6,981 |
| 30% Exceedance                              | -1,861 | 1,554  | 2,377 | 904   | 193 | -29 | 113 | 454  | -2,171 | -7,258 | -9,499  | -6,321 |
| 40% Exceedance                              | 324    | 2,554  | 2,587 | 664   | 13  | -45 | 26  | 434  | -1,217 | -5,988 | -9,089  | -5,523 |
| 50% Exceedance                              | 929    | 1,050  | 1,746 | 329   | -52 | -48 | -19 | 291  | -635   | -4,976 | -8,966  | -4,830 |
| 60% Exceedance                              | -1,332 | 1,459  | 949   | 55    | -57 | -58 | -38 | 125  | 65     | -3,988 | -8,389  | -5,863 |
| 70% Exceedance                              | -496   | 1,569  | 604   | -50   | -60 | -55 | -38 | 27   | 377    | -2,401 | -6,636  | -3,563 |
| 80% Exceedance                              | -303   | 1,544  | 396   | -42   | -42 | -45 | -18 | -19  | 268    | -1,005 | -3,296  | -2,002 |
| 90% Exceedance                              | -36    | 717    | 158   | -40   | -18 | -9  | 10  | 33   | 119    | -366   | -1,435  | -811   |
| Full Simulation Period Average <sup>a</sup> | -1,620 | -49    | 874   | 590   | 146 | 69  | 92  | -28  | -1,430 | -4,740 | -7,256  | -4,624 |
| Wet Water Years (28%)                       | -562   | 983    | 1,505 | -19   | -39 | -25 | 0   | 82   | 62     | -1,614 | -3,626  | -2,118 |
| Above Normal Years (14%)                    | -1,869 | 710    | 1,741 | 414   | -20 | -58 | -26 | 141  | -285   | -3,788 | -7,212  | -5,090 |
| Below Normal Years (18%)                    | -272   | 1,551  | 788   | 744   | 123 | -22 | 89  | 110  | -1,359 | -5,609 | -8,723  | -4,201 |
| Dry Water Years (24%)                       | -1,555 | 148    | 389   | 1,453 | 361 | 127 | 184 | 41   | -2,218 | -6,278 | -8,972  | -5,707 |
| Critical Water Years (16%)                  | -5,068 | -4,972 | -294  | 343   | 317 | 361 | 224 | -629 | -3,943 | -7,757 | -9,424  | -7,450 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-10-7a. San Joaquin River at Antioch Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 11,846 | 11,838 | 4,785 | 974   | 415   | 394 | 524   | 2,273 | 7,283 | 12,313 | 15,094 | 14,049 |
| 20% Exceedance                              | 10,326 | 7,008  | 2,367 | 584   | 365   | 336 | 362   | 1,101 | 5,374 | 11,189 | 14,641 | 13,189 |
| 30% Exceedance                              | 7,869  | 4,174  | 1,717 | 474   | 336   | 322 | 328   | 608   | 3,748 | 9,893  | 13,612 | 12,295 |
| 40% Exceedance                              | 5,379  | 2,728  | 1,030 | 400   | 325   | 308 | 301   | 454   | 2,619 | 8,277  | 12,874 | 11,216 |
| 50% Exceedance                              | 3,934  | 2,157  | 587   | 347   | 305   | 299 | 289   | 304   | 1,744 | 6,866  | 12,181 | 9,949  |
| 60% Exceedance                              | 2,478  | 1,444  | 448   | 303   | 298   | 290 | 277   | 271   | 963   | 5,304  | 10,728 | 7,422  |
| 70% Exceedance                              | 1,552  | 1,110  | 356   | 289   | 283   | 276 | 263   | 250   | 509   | 3,636  | 8,759  | 4,989  |
| 80% Exceedance                              | 1,252  | 688    | 312   | 261   | 253   | 257 | 231   | 231   | 271   | 2,097  | 5,278  | 3,326  |
| 90% Exceedance                              | 937    | 467    | 268   | 243   | 220   | 212 | 192   | 153   | 190   | 1,201  | 3,319  | 2,063  |
| Full Simulation Period Average <sup>a</sup> | 5,422  | 4,011  | 1,744 | 738   | 426   | 327 | 400   | 877   | 2,806 | 6,816  | 10,461 | 8,587  |
| Wet Water Years (28%)                       | 1,520  | 1,146  | 651   | 269   | 252   | 236 | 213   | 214   | 502   | 2,586  | 5,548  | 3,430  |
| Above Normal Years (14%)                    | 2,757  | 1,705  | 672   | 348   | 295   | 281 | 264   | 289   | 1,073 | 4,943  | 9,274  | 6,416  |
| Below Normal Years (18%)                    | 5,385  | 3,255  | 1,358 | 429   | 322   | 306 | 296   | 575   | 2,681 | 7,619  | 12,033 | 9,412  |
| Dry Water Years (24%)                       | 7,348  | 4,945  | 2,365 | 545   | 337   | 321 | 342   | 843   | 3,724 | 9,020  | 13,166 | 11,700 |
| Critical Water Years (16%)                  | 12,336 | 11,077 | 4,325 | 2,535 | 1,096 | 559 | 1,051 | 2,941 | 7,115 | 11,651 | 14,269 | 13,915 |

**Table F.2.5-10-7b. San Joaquin River at Antioch Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 7,167 | 6,318 | 4,845 | 3,767 | 1,325 | 730 | 1,022 | 1,773 | 2,280 | 3,561 | 4,889 | 6,461 |
| 20% Exceedance                              | 6,507 | 6,006 | 4,410 | 2,430 | 805   | 417 | 567   | 1,128 | 1,822 | 2,972 | 4,501 | 6,192 |
| 30% Exceedance                              | 5,968 | 5,769 | 4,002 | 1,494 | 535   | 292 | 436   | 1,051 | 1,628 | 2,692 | 4,176 | 5,954 |
| 40% Exceedance                              | 5,600 | 5,211 | 3,640 | 1,026 | 338   | 261 | 305   | 800   | 1,378 | 2,331 | 3,830 | 5,742 |
| 50% Exceedance                              | 4,962 | 3,225 | 2,343 | 727   | 254   | 249 | 267   | 576   | 1,118 | 1,887 | 3,210 | 5,096 |
| 60% Exceedance                              | 1,146 | 2,908 | 1,424 | 381   | 241   | 233 | 246   | 392   | 1,044 | 1,318 | 2,303 | 1,556 |
| 70% Exceedance                              | 1,053 | 2,693 | 956   | 240   | 222   | 226 | 227   | 289   | 892   | 1,202 | 2,115 | 1,431 |
| 80% Exceedance                              | 947   | 2,234 | 707   | 219   | 211   | 213 | 218   | 216   | 537   | 1,076 | 1,989 | 1,326 |
| 90% Exceedance                              | 890   | 1,239 | 432   | 203   | 202   | 203 | 203   | 187   | 310   | 837   | 1,826 | 1,248 |
| Full Simulation Period Average <sup>a</sup> | 3,817 | 3,971 | 2,608 | 1,346 | 606   | 385 | 473   | 836   | 1,385 | 2,085 | 3,219 | 3,973 |
| Wet Water Years (28%)                       | 961   | 2,133 | 2,142 | 254   | 213   | 212 | 214   | 296   | 571   | 957   | 1,909 | 1,311 |
| Above Normal Years (14%)                    | 892   | 2,423 | 2,359 | 764   | 275   | 228 | 240   | 398   | 805   | 1,139 | 2,028 | 1,327 |
| Below Normal Years (18%)                    | 5,117 | 4,794 | 2,176 | 1,182 | 454   | 270 | 352   | 681   | 1,342 | 2,018 | 3,317 | 5,201 |
| Dry Water Years (24%)                       | 5,801 | 5,089 | 2,699 | 2,029 | 714   | 392 | 468   | 852   | 1,512 | 2,778 | 4,259 | 6,006 |
| Critical Water Years (16%)                  | 7,337 | 6,173 | 4,098 | 2,927 | 1,594 | 944 | 1,275 | 2,313 | 3,173 | 3,923 | 4,885 | 6,513 |

**Table F.2.5-10-7c. San Joaquin River at Antioch Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb | Mar | Apr | May  | Jun    | Jul    | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-----|-----|-----|------|--------|--------|---------|--------|
| 10% Exceedance                              | -4,678 | -5,520 | 59    | 2,793 | 910 | 336 | 499 | -501 | -5,002 | -8,752 | -10,206 | -7,588 |
| 20% Exceedance                              | -3,820 | -1,003 | 2,043 | 1,846 | 439 | 81  | 205 | 27   | -3,552 | -8,217 | -10,140 | -6,997 |
| 30% Exceedance                              | -1,901 | 1,594  | 2,284 | 1,020 | 199 | -30 | 108 | 443  | -2,120 | -7,200 | -9,436  | -6,341 |
| 40% Exceedance                              | 222    | 2,483  | 2,610 | 626   | 13  | -47 | 4   | 345  | -1,240 | -5,946 | -9,044  | -5,475 |
| 50% Exceedance                              | 1,027  | 1,068  | 1,757 | 380   | -51 | -50 | -22 | 272  | -625   | -4,979 | -8,971  | -4,853 |
| 60% Exceedance                              | -1,332 | 1,464  | 976   | 77    | -57 | -56 | -31 | 121  | 82     | -3,986 | -8,425  | -5,866 |
| 70% Exceedance                              | -500   | 1,583  | 600   | -49   | -60 | -50 | -36 | 38   | 383    | -2,434 | -6,644  | -3,558 |
| 80% Exceedance                              | -305   | 1,546  | 396   | -41   | -42 | -44 | -13 | -15  | 267    | -1,020 | -3,290  | -2,000 |
| 90% Exceedance                              | -47    | 772    | 164   | -40   | -18 | -9  | 11  | 34   | 121    | -364   | -1,494  | -815   |
| Full Simulation Period Average <sup>a</sup> | -1,606 | -40    | 864   | 609   | 180 | 58  | 73  | -41  | -1,421 | -4,731 | -7,241  | -4,614 |
| Wet Water Years (28%)                       | -559   | 986    | 1,491 | -15   | -39 | -25 | 1   | 83   | 69     | -1,629 | -3,639  | -2,119 |
| Above Normal Years (14%)                    | -1,865 | 717    | 1,687 | 416   | -20 | -54 | -25 | 109  | -268   | -3,803 | -7,247  | -5,090 |
| Below Normal Years (18%)                    | -268   | 1,538  | 818   | 754   | 132 | -36 | 56  | 106  | -1,339 | -5,600 | -8,716  | -4,210 |
| Dry Water Years (24%)                       | -1,548 | 144    | 334   | 1,484 | 377 | 71  | 125 | 8    | -2,212 | -6,242 | -8,907  | -5,693 |
| Critical Water Years (16%)                  | -4,999 | -4,904 | -227  | 392   | 498 | 385 | 224 | -628 | -3,942 | -7,728 | -9,384  | -7,402 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-10-8a. San Joaquin River at Antioch Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 11,846 | 11,838 | 4,785 | 974   | 415   | 394 | 524   | 2,273 | 7,283 | 12,313 | 15,094 | 14,049 |
| 20% Exceedance                              | 10,326 | 7,008  | 2,367 | 584   | 365   | 336 | 362   | 1,101 | 5,374 | 11,189 | 14,641 | 13,189 |
| 30% Exceedance                              | 7,869  | 4,174  | 1,717 | 474   | 336   | 322 | 328   | 608   | 3,748 | 9,893  | 13,612 | 12,295 |
| 40% Exceedance                              | 5,379  | 2,728  | 1,030 | 400   | 325   | 308 | 301   | 454   | 2,619 | 8,277  | 12,874 | 11,216 |
| 50% Exceedance                              | 3,934  | 2,157  | 587   | 347   | 305   | 299 | 289   | 304   | 1,744 | 6,866  | 12,181 | 9,949  |
| 60% Exceedance                              | 2,478  | 1,444  | 448   | 303   | 298   | 290 | 277   | 271   | 963   | 5,304  | 10,728 | 7,422  |
| 70% Exceedance                              | 1,552  | 1,110  | 356   | 289   | 283   | 276 | 263   | 250   | 509   | 3,636  | 8,759  | 4,989  |
| 80% Exceedance                              | 1,252  | 688    | 312   | 261   | 253   | 257 | 231   | 231   | 271   | 2,097  | 5,278  | 3,326  |
| 90% Exceedance                              | 937    | 467    | 268   | 243   | 220   | 212 | 192   | 153   | 190   | 1,201  | 3,319  | 2,063  |
| Full Simulation Period Average <sup>a</sup> | 5,422  | 4,011  | 1,744 | 738   | 426   | 327 | 400   | 877   | 2,806 | 6,816  | 10,461 | 8,587  |
| Wet Water Years (28%)                       | 1,520  | 1,146  | 651   | 269   | 252   | 236 | 213   | 214   | 502   | 2,586  | 5,548  | 3,430  |
| Above Normal Years (14%)                    | 2,757  | 1,705  | 672   | 348   | 295   | 281 | 264   | 289   | 1,073 | 4,943  | 9,274  | 6,416  |
| Below Normal Years (18%)                    | 5,385  | 3,255  | 1,358 | 429   | 322   | 306 | 296   | 575   | 2,681 | 7,619  | 12,033 | 9,412  |
| Dry Water Years (24%)                       | 7,348  | 4,945  | 2,365 | 545   | 337   | 321 | 342   | 843   | 3,724 | 9,020  | 13,166 | 11,700 |
| Critical Water Years (16%)                  | 12,336 | 11,077 | 4,325 | 2,535 | 1,096 | 559 | 1,051 | 2,941 | 7,115 | 11,651 | 14,269 | 13,915 |

**Table F.2.5-10-8b. San Joaquin River at Antioch Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-----|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 7,170 | 6,352 | 4,687 | 3,822 | 1,378 | 719 | 948   | 1,609 | 2,121 | 3,642 | 4,865 | 6,444 |
| 20% Exceedance                              | 6,360 | 6,039 | 4,385 | 2,580 | 805   | 411 | 499   | 984   | 1,720 | 2,957 | 4,489 | 6,157 |
| 30% Exceedance                              | 5,976 | 5,710 | 3,973 | 1,438 | 549   | 291 | 353   | 870   | 1,567 | 2,718 | 4,168 | 5,971 |
| 40% Exceedance                              | 5,660 | 5,257 | 3,616 | 997   | 338   | 259 | 278   | 673   | 1,330 | 2,288 | 3,826 | 5,726 |
| 50% Exceedance                              | 5,028 | 3,227 | 2,433 | 746   | 254   | 248 | 256   | 435   | 1,126 | 1,945 | 3,153 | 5,092 |
| 60% Exceedance                              | 1,137 | 2,908 | 1,361 | 384   | 241   | 234 | 239   | 336   | 1,035 | 1,308 | 2,211 | 1,529 |
| 70% Exceedance                              | 1,054 | 2,689 | 968   | 239   | 223   | 225 | 226   | 268   | 859   | 1,192 | 2,091 | 1,400 |
| 80% Exceedance                              | 952   | 2,234 | 713   | 219   | 212   | 213 | 218   | 213   | 545   | 1,050 | 1,979 | 1,325 |
| 90% Exceedance                              | 895   | 1,192 | 439   | 203   | 202   | 203 | 202   | 187   | 310   | 828   | 1,779 | 1,245 |
| Full Simulation Period Average <sup>a</sup> | 3,803 | 3,999 | 2,597 | 1,344 | 618   | 383 | 432   | 717   | 1,318 | 2,074 | 3,200 | 3,955 |
| Wet Water Years (28%)                       | 959   | 2,134 | 2,140 | 257   | 213   | 212 | 213   | 290   | 571   | 954   | 1,898 | 1,308 |
| Above Normal Years (14%)                    | 894   | 2,422 | 2,354 | 760   | 275   | 228 | 236   | 336   | 780   | 1,118 | 1,978 | 1,318 |
| Below Normal Years (18%)                    | 5,132 | 4,876 | 2,136 | 1,139 | 454   | 270 | 297   | 526   | 1,297 | 2,021 | 3,287 | 5,127 |
| Dry Water Years (24%)                       | 5,757 | 5,017 | 2,684 | 1,969 | 720   | 388 | 405   | 713   | 1,437 | 2,793 | 4,267 | 5,999 |
| Critical Water Years (16%)                  | 7,298 | 6,377 | 4,110 | 3,050 | 1,661 | 940 | 1,180 | 2,019 | 2,939 | 3,855 | 4,847 | 6,511 |

**Table F.2.5-10-8c. San Joaquin River at Antioch Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb | Mar | Apr | May  | Jun    | Jul    | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-----|-----|-----|------|--------|--------|---------|--------|
| 10% Exceedance                              | -4,675 | -5,486 | -99   | 2,848 | 964 | 325 | 425 | -664 | -5,162 | -8,672 | -10,230 | -7,606 |
| 20% Exceedance                              | -3,966 | -969   | 2,018 | 1,997 | 440 | 75  | 137 | -117 | -3,654 | -8,232 | -10,152 | -7,033 |
| 30% Exceedance                              | -1,893 | 1,536  | 2,256 | 964   | 214 | -30 | 25  | 262  | -2,181 | -7,175 | -9,444  | -6,325 |
| 40% Exceedance                              | 281    | 2,530  | 2,585 | 597   | 13  | -49 | -23 | 219  | -1,288 | -5,989 | -9,048  | -5,490 |
| 50% Exceedance                              | 1,094  | 1,071  | 1,846 | 399   | -51 | -50 | -33 | 130  | -618   | -4,921 | -9,028  | -4,857 |
| 60% Exceedance                              | -1,341 | 1,464  | 913   | 81    | -57 | -56 | -38 | 65   | 73     | -3,996 | -8,517  | -5,893 |
| 70% Exceedance                              | -499   | 1,579  | 612   | -50   | -60 | -51 | -37 | 18   | 350    | -2,444 | -6,668  | -3,589 |
| 80% Exceedance                              | -300   | 1,546  | 401   | -41   | -41 | -44 | -13 | -18  | 274    | -1,047 | -3,299  | -2,001 |
| 90% Exceedance                              | -42    | 724    | 171   | -40   | -18 | -9  | 10  | 33   | 121    | -373   | -1,541  | -818   |
| Full Simulation Period Average <sup>a</sup> | -1,620 | -12    | 853   | 606   | 192 | 56  | 32  | -160 | -1,488 | -4,742 | -7,261  | -4,632 |
| Wet Water Years (28%)                       | -561   | 987    | 1,489 | -12   | -39 | -25 | 1   | 76   | 69     | -1,632 | -3,649  | -2,122 |
| Above Normal Years (14%)                    | -1,863 | 716    | 1,681 | 412   | -20 | -54 | -28 | 48   | -293   | -3,825 | -7,297  | -5,098 |
| Below Normal Years (18%)                    | -253   | 1,621  | 778   | 710   | 132 | -36 | 2   | -49  | -1,384 | -5,597 | -8,746  | -4,285 |
| Dry Water Years (24%)                       | -1,592 | 72     | 319   | 1,424 | 383 | 67  | 63  | -130 | -2,287 | -6,227 | -8,899  | -5,700 |
| Critical Water Years (16%)                  | -5,038 | -4,699 | -215  | 515   | 565 | 381 | 129 | -921 | -4,176 | -7,796 | -9,422  | -7,404 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-10-9a. San Joaquin River at Antioch Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|-------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 11,846 | 11,838 | 4,785 | 974   | 415   | 394 | 524   | 2,273 | 7,283 | 12,313 | 15,094 | 14,049 |
| <b>20% Exceedance</b>                             | 10,326 | 7,008  | 2,367 | 584   | 365   | 336 | 362   | 1,101 | 5,374 | 11,189 | 14,641 | 13,189 |
| <b>30% Exceedance</b>                             | 7,869  | 4,174  | 1,717 | 474   | 336   | 322 | 328   | 608   | 3,748 | 9,893  | 13,612 | 12,295 |
| <b>40% Exceedance</b>                             | 5,379  | 2,728  | 1,030 | 400   | 325   | 308 | 301   | 454   | 2,619 | 8,277  | 12,874 | 11,216 |
| <b>50% Exceedance</b>                             | 3,934  | 2,157  | 587   | 347   | 305   | 299 | 289   | 304   | 1,744 | 6,866  | 12,181 | 9,949  |
| <b>60% Exceedance</b>                             | 2,478  | 1,444  | 448   | 303   | 298   | 290 | 277   | 271   | 963   | 5,304  | 10,728 | 7,422  |
| <b>70% Exceedance</b>                             | 1,552  | 1,110  | 356   | 289   | 283   | 276 | 263   | 250   | 509   | 3,636  | 8,759  | 4,989  |
| <b>80% Exceedance</b>                             | 1,252  | 688    | 312   | 261   | 253   | 257 | 231   | 231   | 271   | 2,097  | 5,278  | 3,326  |
| <b>90% Exceedance</b>                             | 937    | 467    | 268   | 243   | 220   | 212 | 192   | 153   | 190   | 1,201  | 3,319  | 2,063  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 5,422  | 4,011  | 1,744 | 738   | 426   | 327 | 400   | 877   | 2,806 | 6,816  | 10,461 | 8,587  |
| <b>Wet Water Years (28%)</b>                      | 1,520  | 1,146  | 651   | 269   | 252   | 236 | 213   | 214   | 502   | 2,586  | 5,548  | 3,430  |
| <b>Above Normal Years (14%)</b>                   | 2,757  | 1,705  | 672   | 348   | 295   | 281 | 264   | 289   | 1,073 | 4,943  | 9,274  | 6,416  |
| <b>Below Normal Years (18%)</b>                   | 5,385  | 3,255  | 1,358 | 429   | 322   | 306 | 296   | 575   | 2,681 | 7,619  | 12,033 | 9,412  |
| <b>Dry Water Years (24%)</b>                      | 7,348  | 4,945  | 2,365 | 545   | 337   | 321 | 342   | 843   | 3,724 | 9,020  | 13,166 | 11,700 |
| <b>Critical Water Years (16%)</b>                 | 12,336 | 11,077 | 4,325 | 2,535 | 1,096 | 559 | 1,051 | 2,941 | 7,115 | 11,651 | 14,269 | 13,915 |

**Table F.2.5-10-9b. San Joaquin River at Antioch Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>10% Exceedance</b>                             | 6,766 | 6,563 | 4,920 | 3,703 | 1,319 | 963   | 1,333 | 2,636 | 4,289 | 5,037 | 5,269 | 6,315 |
| <b>20% Exceedance</b>                             | 6,506 | 6,085 | 4,458 | 2,553 | 755   | 585   | 907   | 1,134 | 1,837 | 2,987 | 4,542 | 6,122 |
| <b>30% Exceedance</b>                             | 6,006 | 5,750 | 4,271 | 1,544 | 528   | 304   | 478   | 1,062 | 1,614 | 2,662 | 4,108 | 5,927 |
| <b>40% Exceedance</b>                             | 5,683 | 5,311 | 3,712 | 987   | 331   | 262   | 327   | 867   | 1,415 | 2,336 | 3,760 | 5,671 |
| <b>50% Exceedance</b>                             | 4,880 | 3,208 | 2,356 | 595   | 253   | 250   | 270   | 596   | 1,114 | 1,899 | 3,214 | 5,084 |
| <b>60% Exceedance</b>                             | 1,148 | 2,903 | 1,408 | 358   | 241   | 232   | 239   | 396   | 1,027 | 1,320 | 2,339 | 1,560 |
| <b>70% Exceedance</b>                             | 1,057 | 2,678 | 1,002 | 237   | 222   | 221   | 225   | 277   | 886   | 1,235 | 2,122 | 1,426 |
| <b>80% Exceedance</b>                             | 947   | 2,236 | 708   | 219   | 211   | 213   | 213   | 212   | 538   | 1,091 | 1,982 | 1,327 |
| <b>90% Exceedance</b>                             | 902   | 1,181 | 421   | 203   | 202   | 203   | 203   | 186   | 306   | 835   | 1,885 | 1,252 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 3,764 | 4,031 | 2,637 | 1,285 | 566   | 425   | 606   | 1,003 | 1,513 | 2,245 | 3,323 | 3,928 |
| <b>Wet Water Years (28%)</b>                      | 958   | 2,129 | 2,153 | 250   | 213   | 211   | 213   | 295   | 564   | 971   | 1,921 | 1,312 |
| <b>Above Normal Years (14%)</b>                   | 895   | 2,416 | 2,415 | 763   | 274   | 223   | 238   | 429   | 788   | 1,155 | 2,065 | 1,329 |
| <b>Below Normal Years (18%)</b>                   | 5,089 | 4,806 | 2,177 | 1,129 | 442   | 282   | 385   | 685   | 1,319 | 2,001 | 3,314 | 5,176 |
| <b>Dry Water Years (24%)</b>                      | 5,793 | 5,085 | 2,806 | 2,035 | 701   | 448   | 526   | 884   | 1,505 | 2,745 | 4,193 | 5,990 |
| <b>Critical Water Years (16%)</b>                 | 7,032 | 6,581 | 4,046 | 2,602 | 1,379 | 1,102 | 1,988 | 3,280 | 4,040 | 4,953 | 5,580 | 6,284 |

**Table F.2.5-10-9c. San Joaquin River at Antioch Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb | Mar | Apr | May | Jun    | Jul    | Aug     | Sep    |
|---------------------------------------------------|--------|--------|-------|-------|-----|-----|-----|-----|--------|--------|---------|--------|
| <b>10% Exceedance</b>                             | -5,080 | -5,275 | 135   | 2,729 | 905 | 568 | 809 | 362 | -2,993 | -7,276 | -9,825  | -7,734 |
| <b>20% Exceedance</b>                             | -3,821 | -923   | 2,092 | 1,969 | 390 | 250 | 545 | 33  | -3,536 | -8,202 | -10,099 | -7,068 |
| <b>30% Exceedance</b>                             | -1,863 | 1,576  | 2,553 | 1,070 | 192 | -17 | 150 | 454 | -2,134 | -7,231 | -9,503  | -6,368 |
| <b>40% Exceedance</b>                             | 304    | 2,583  | 2,682 | 587   | 6   | -46 | 26  | 413 | -1,204 | -5,941 | -9,114  | -5,545 |
| <b>50% Exceedance</b>                             | 946    | 1,051  | 1,770 | 249   | -52 | -49 | -19 | 292 | -630   | -4,967 | -8,967  | -4,865 |
| <b>60% Exceedance</b>                             | -1,331 | 1,459  | 960   | 55    | -57 | -58 | -38 | 125 | 65     | -3,984 | -8,389  | -5,862 |
| <b>70% Exceedance</b>                             | -496   | 1,568  | 646   | -52   | -60 | -55 | -38 | 27  | 376    | -2,402 | -6,636  | -3,563 |
| <b>80% Exceedance</b>                             | -305   | 1,548  | 397   | -42   | -42 | -44 | -18 | -19 | 268    | -1,005 | -3,296  | -1,999 |
| <b>90% Exceedance</b>                             | -35    | 713    | 153   | -40   | -18 | -9  | 11  | 33  | 117    | -367   | -1,434  | -811   |
| <b>Full Simulation Period Average<sup>a</sup></b> | -1,659 | 20     | 894   | 547   | 140 | 98  | 206 | 127 | -1,292 | -4,571 | -7,138  | -4,659 |
| <b>Wet Water Years (28%)</b>                      | -562   | 983    | 1,503 | -19   | -39 | -25 | 0   | 82  | 62     | -1,615 | -3,626  | -2,118 |
| <b>Above Normal Years (14%)</b>                   | -1,862 | 710    | 1,743 | 414   | -21 | -58 | -27 | 141 | -285   | -3,787 | -7,209  | -5,087 |
| <b>Below Normal Years (18%)</b>                   | -297   | 1,550  | 820   | 701   | 120 | -23 | 89  | 110 | -1,362 | -5,617 | -8,719  | -4,236 |
| <b>Dry Water Years (24%)</b>                      | -1,555 | 140    | 441   | 1,490 | 364 | 127 | 184 | 41  | -2,219 | -6,275 | -8,973  | -5,710 |
| <b>Critical Water Years (16%)</b>                 | -5,304 | -4,496 | -279  | 66    | 283 | 543 | 938 | 340 | -3,075 | -6,698 | -8,689  | -7,631 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-10-10a. San Joaquin River at Antioch Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 11,846 | 11,838 | 4,785 | 974   | 415   | 394 | 524   | 2,273 | 7,283 | 12,313 | 15,094 | 14,049 |
| 20% Exceedance                              | 10,326 | 7,008  | 2,367 | 584   | 365   | 336 | 362   | 1,101 | 5,374 | 11,189 | 14,641 | 13,189 |
| 30% Exceedance                              | 7,869  | 4,174  | 1,717 | 474   | 336   | 322 | 328   | 608   | 3,748 | 9,893  | 13,612 | 12,295 |
| 40% Exceedance                              | 5,379  | 2,728  | 1,030 | 400   | 325   | 308 | 301   | 454   | 2,619 | 8,277  | 12,874 | 11,216 |
| 50% Exceedance                              | 3,934  | 2,157  | 587   | 347   | 305   | 299 | 289   | 304   | 1,744 | 6,866  | 12,181 | 9,949  |
| 60% Exceedance                              | 2,478  | 1,444  | 448   | 303   | 298   | 290 | 277   | 271   | 963   | 5,304  | 10,728 | 7,422  |
| 70% Exceedance                              | 1,552  | 1,110  | 356   | 289   | 283   | 276 | 263   | 250   | 509   | 3,636  | 8,759  | 4,989  |
| 80% Exceedance                              | 1,252  | 688    | 312   | 261   | 253   | 257 | 231   | 231   | 271   | 2,097  | 5,278  | 3,326  |
| 90% Exceedance                              | 937    | 467    | 268   | 243   | 220   | 212 | 192   | 153   | 190   | 1,201  | 3,319  | 2,063  |
| Full Simulation Period Average <sup>a</sup> | 5,422  | 4,011  | 1,744 | 738   | 426   | 327 | 400   | 877   | 2,806 | 6,816  | 10,461 | 8,587  |
| Wet Water Years (28%)                       | 1,520  | 1,146  | 651   | 269   | 252   | 236 | 213   | 214   | 502   | 2,586  | 5,548  | 3,430  |
| Above Normal Years (14%)                    | 2,757  | 1,705  | 672   | 348   | 295   | 281 | 264   | 289   | 1,073 | 4,943  | 9,274  | 6,416  |
| Below Normal Years (18%)                    | 5,385  | 3,255  | 1,358 | 429   | 322   | 306 | 296   | 575   | 2,681 | 7,619  | 12,033 | 9,412  |
| Dry Water Years (24%)                       | 7,348  | 4,945  | 2,365 | 545   | 337   | 321 | 342   | 843   | 3,724 | 9,020  | 13,166 | 11,700 |
| Critical Water Years (16%)                  | 12,336 | 11,077 | 4,325 | 2,535 | 1,096 | 559 | 1,051 | 2,941 | 7,115 | 11,651 | 14,269 | 13,915 |

**Table F.2.5-10-10b. San Joaquin River at Antioch Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 10% Exceedance                              | 6,697 | 6,649 | 4,952 | 3,924 | 1,433 | 958   | 1,506 | 2,780 | 4,323 | 5,008 | 5,675 | 6,271 |
| 20% Exceedance                              | 6,321 | 6,119 | 4,355 | 3,008 | 847   | 571   | 880   | 1,037 | 1,841 | 3,011 | 4,413 | 6,088 |
| 30% Exceedance                              | 6,011 | 5,883 | 4,146 | 1,557 | 611   | 303   | 468   | 915   | 1,540 | 2,713 | 4,102 | 5,883 |
| 40% Exceedance                              | 5,612 | 5,263 | 3,614 | 979   | 336   | 268   | 305   | 725   | 1,391 | 2,389 | 3,841 | 5,606 |
| 50% Exceedance                              | 5,037 | 3,250 | 2,677 | 617   | 253   | 250   | 266   | 457   | 1,136 | 1,895 | 3,220 | 4,790 |
| 60% Exceedance                              | 1,159 | 2,959 | 1,447 | 380   | 240   | 231   | 242   | 349   | 1,025 | 1,291 | 2,231 | 1,486 |
| 70% Exceedance                              | 1,023 | 2,834 | 1,007 | 237   | 222   | 222   | 226   | 266   | 848   | 1,156 | 2,031 | 1,354 |
| 80% Exceedance                              | 957   | 2,255 | 738   | 219   | 212   | 212   | 215   | 214   | 557   | 1,054 | 1,879 | 1,284 |
| 90% Exceedance                              | 905   | 1,174 | 470   | 203   | 201   | 203   | 203   | 187   | 311   | 810   | 1,733 | 1,207 |
| Full Simulation Period Average <sup>a</sup> | 3,746 | 4,096 | 2,638 | 1,373 | 603   | 425   | 607   | 964   | 1,520 | 2,246 | 3,300 | 3,872 |
| Wet Water Years (28%)                       | 951   | 2,140 | 2,146 | 263   | 213   | 212   | 211   | 267   | 562   | 941   | 1,817 | 1,264 |
| Above Normal Years (14%)                    | 908   | 2,503 | 2,399 | 770   | 274   | 223   | 238   | 371   | 804   | 1,102 | 1,976 | 1,264 |
| Below Normal Years (18%)                    | 5,102 | 5,002 | 2,219 | 1,121 | 460   | 286   | 370   | 558   | 1,304 | 2,024 | 3,420 | 5,105 |
| Dry Water Years (24%)                       | 5,747 | 5,077 | 2,741 | 2,170 | 788   | 459   | 504   | 807   | 1,466 | 2,720 | 4,119 | 5,901 |
| Critical Water Years (16%)                  | 6,974 | 6,685 | 4,134 | 2,930 | 1,459 | 1,084 | 2,042 | 3,397 | 4,149 | 5,073 | 5,693 | 6,287 |

**Table F.2.5-10-10c. San Joaquin River at Antioch Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr | May | Jun    | Jul    | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-----|-----|--------|--------|---------|--------|
| 10% Exceedance                              | -5,149 | -5,189 | 167   | 2,950 | 1,019 | 564 | 982 | 506 | -2,960 | -7,305 | -9,419  | -7,778 |
| 20% Exceedance                              | -4,005 | -890   | 1,988 | 2,424 | 482   | 235 | 518 | -64 | -3,533 | -8,178 | -10,228 | -7,102 |
| 30% Exceedance                              | -1,858 | 1,709  | 2,429 | 1,083 | 275   | -19 | 140 | 307 | -2,208 | -7,180 | -9,510  | -6,412 |
| 40% Exceedance                              | 233    | 2,536  | 2,584 | 579   | 11    | -40 | 4   | 270 | -1,227 | -5,888 | -9,033  | -5,610 |
| 50% Exceedance                              | 1,103  | 1,093  | 2,091 | 270   | -52   | -49 | -23 | 153 | -608   | -4,971 | -8,961  | -5,159 |
| 60% Exceedance                              | -1,319 | 1,515  | 1,000 | 77    | -58   | -58 | -35 | 78  | 62     | -4,013 | -8,496  | -5,936 |
| 70% Exceedance                              | -529   | 1,724  | 651   | -52   | -61   | -54 | -38 | 16  | 339    | -2,481 | -6,728  | -3,635 |
| 80% Exceedance                              | -295   | 1,567  | 427   | -41   | -41   | -45 | -16 | -17 | 287    | -1,043 | -3,399  | -2,042 |
| 90% Exceedance                              | -32    | 707    | 202   | -40   | -18   | -9  | 11  | 33  | 121    | -392   | -1,586  | -856   |
| Full Simulation Period Average <sup>a</sup> | -1,676 | 85     | 894   | 635   | 177   | 98  | 207 | 88  | -1,285 | -4,570 | -7,160  | -4,715 |
| Wet Water Years (28%)                       | -568   | 993    | 1,495 | -6    | -39   | -25 | -2  | 53  | 60     | -1,645 | -3,731  | -2,165 |
| Above Normal Years (14%)                    | -1,849 | 797    | 1,727 | 421   | -21   | -59 | -26 | 82  | -269   | -3,841 | -7,299  | -5,153 |
| Below Normal Years (18%)                    | -283   | 1,747  | 861   | 692   | 138   | -20 | 74  | -17 | -1,377 | -5,595 | -8,612  | -4,307 |
| Dry Water Years (24%)                       | -1,601 | 132    | 376   | 1,625 | 451   | 138 | 162 | -36 | -2,258 | -6,300 | -9,048  | -5,798 |
| Critical Water Years (16%)                  | -5,362 | -4,392 | -191  | 395   | 363   | 525 | 991 | 456 | -2,966 | -6,578 | -8,577  | -7,628 |

<sup>a</sup> Based on the 100-year simulation period.

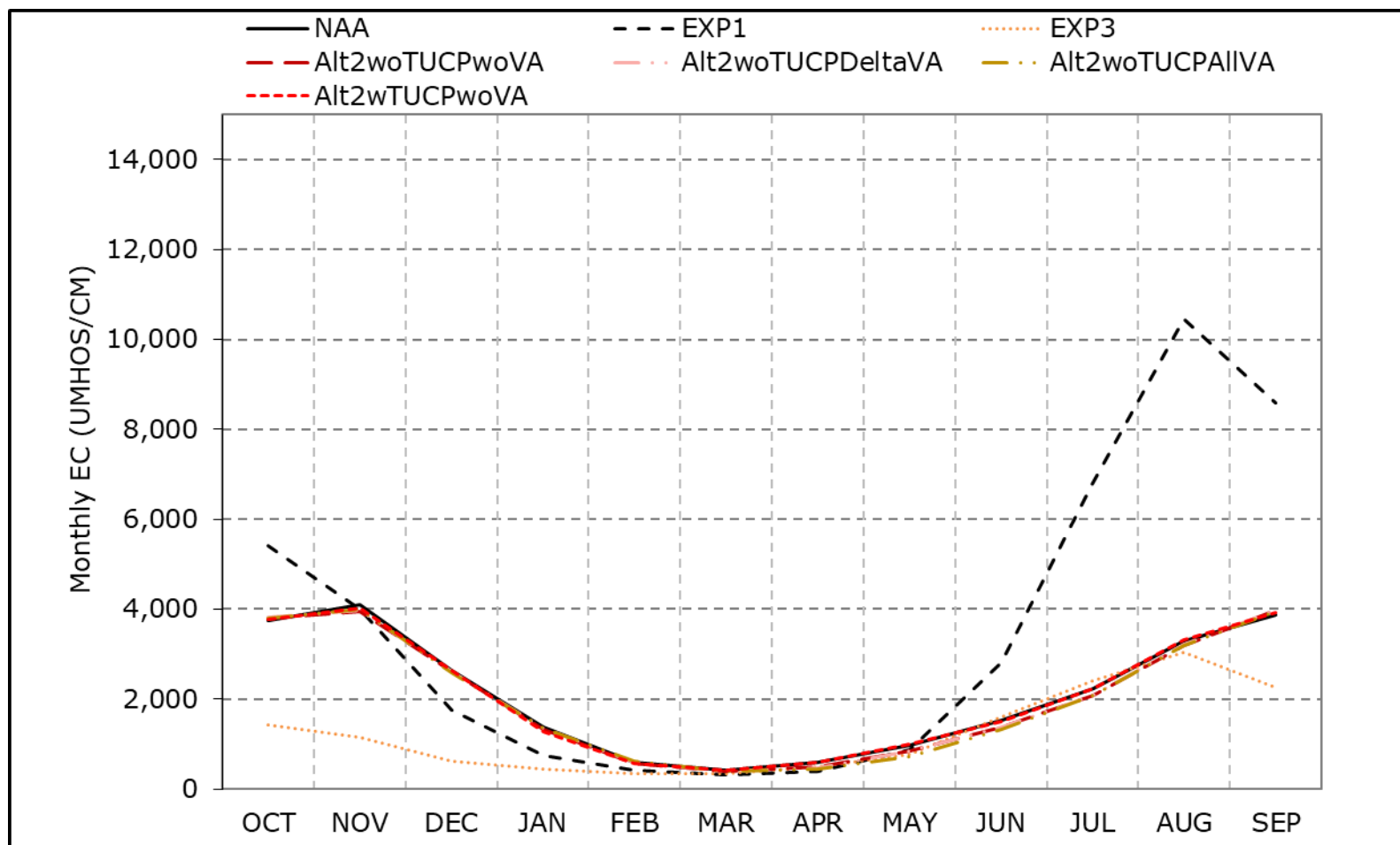
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-10-1. San Joaquin River at Antioch Salinity, Long-Term Average EC**

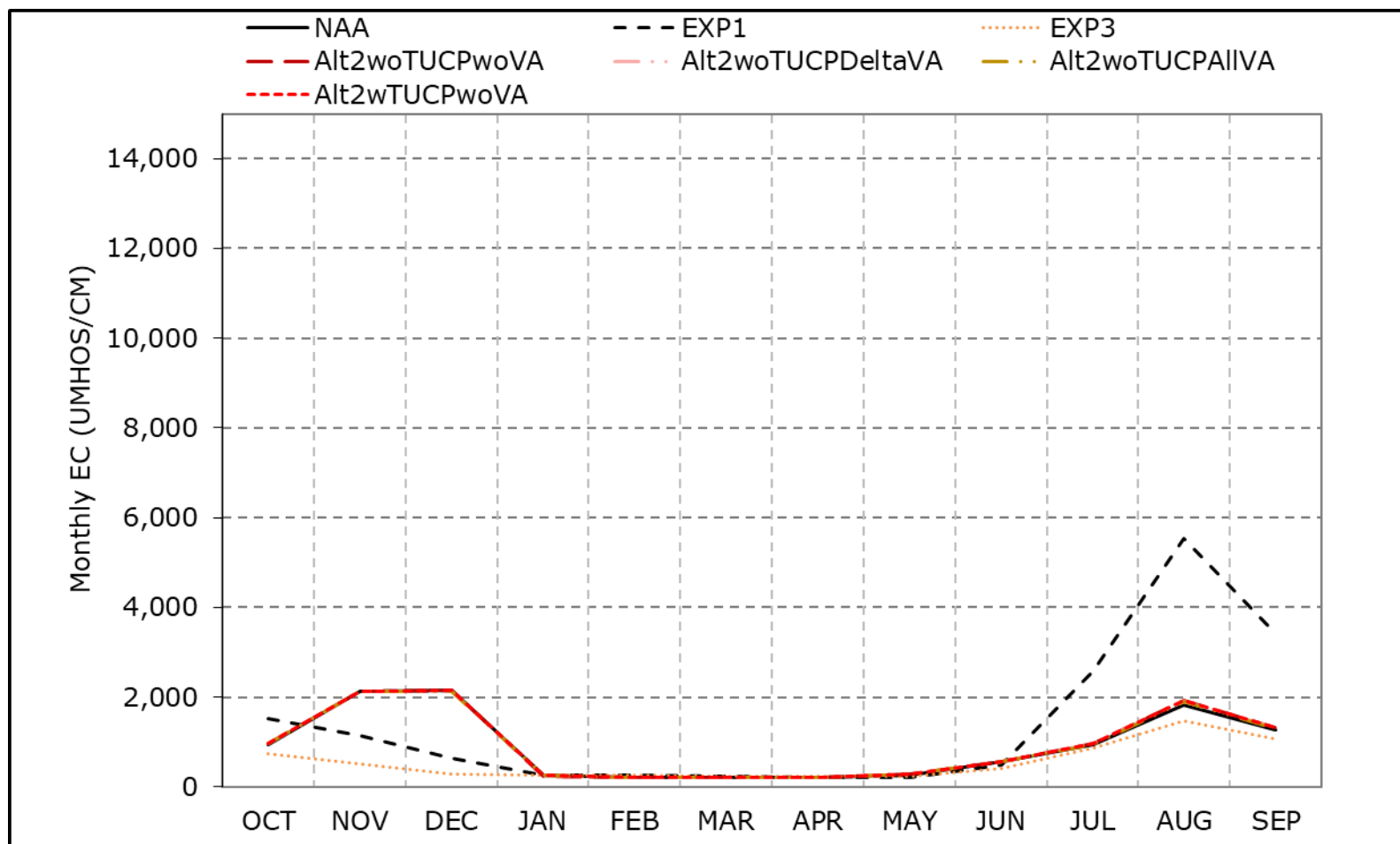


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-2. San Joaquin River at Antioch Salinity, Wet Year Average EC**

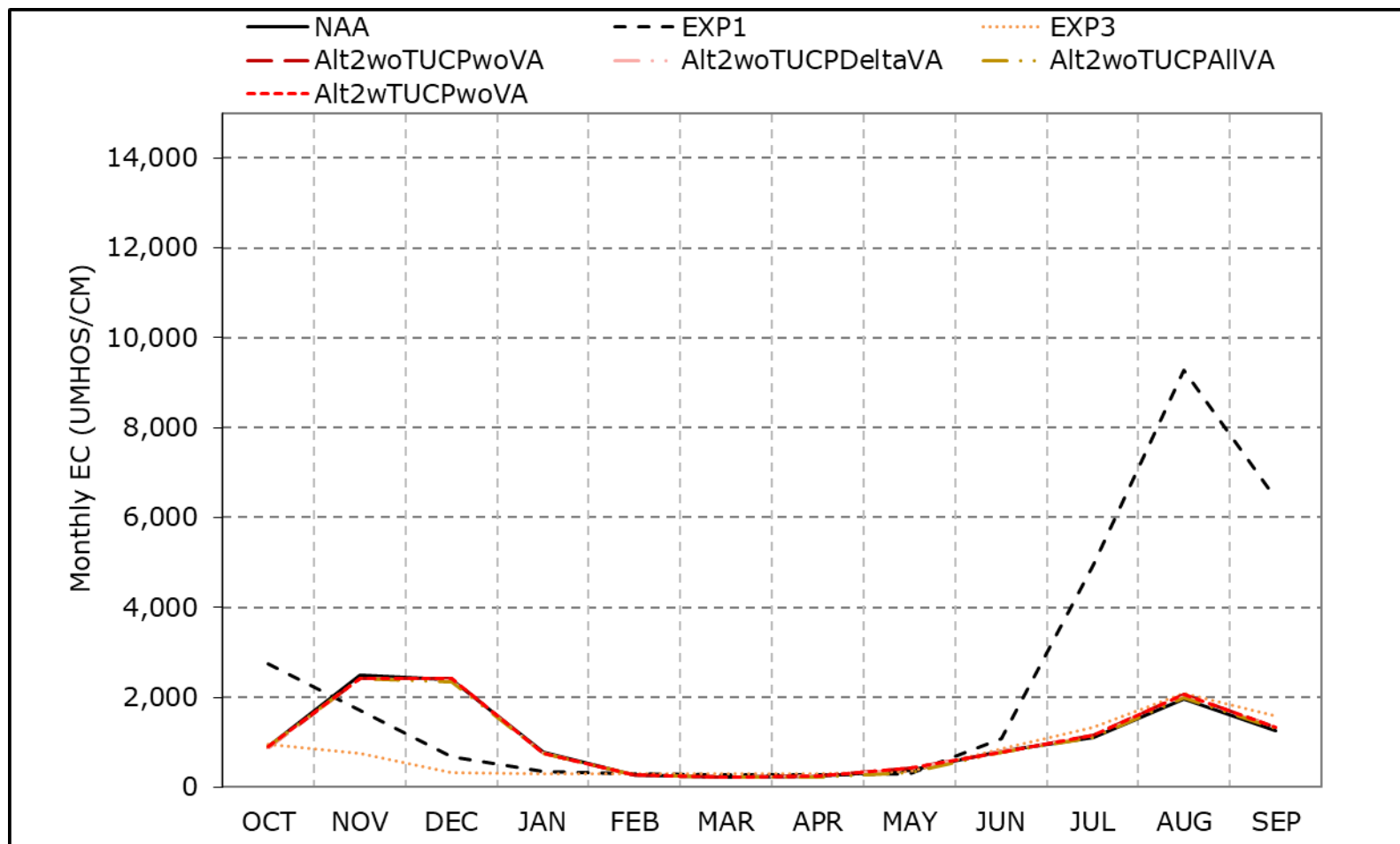


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-3. San Joaquin River at Antioch Salinity, Above Normal Year Average EC**

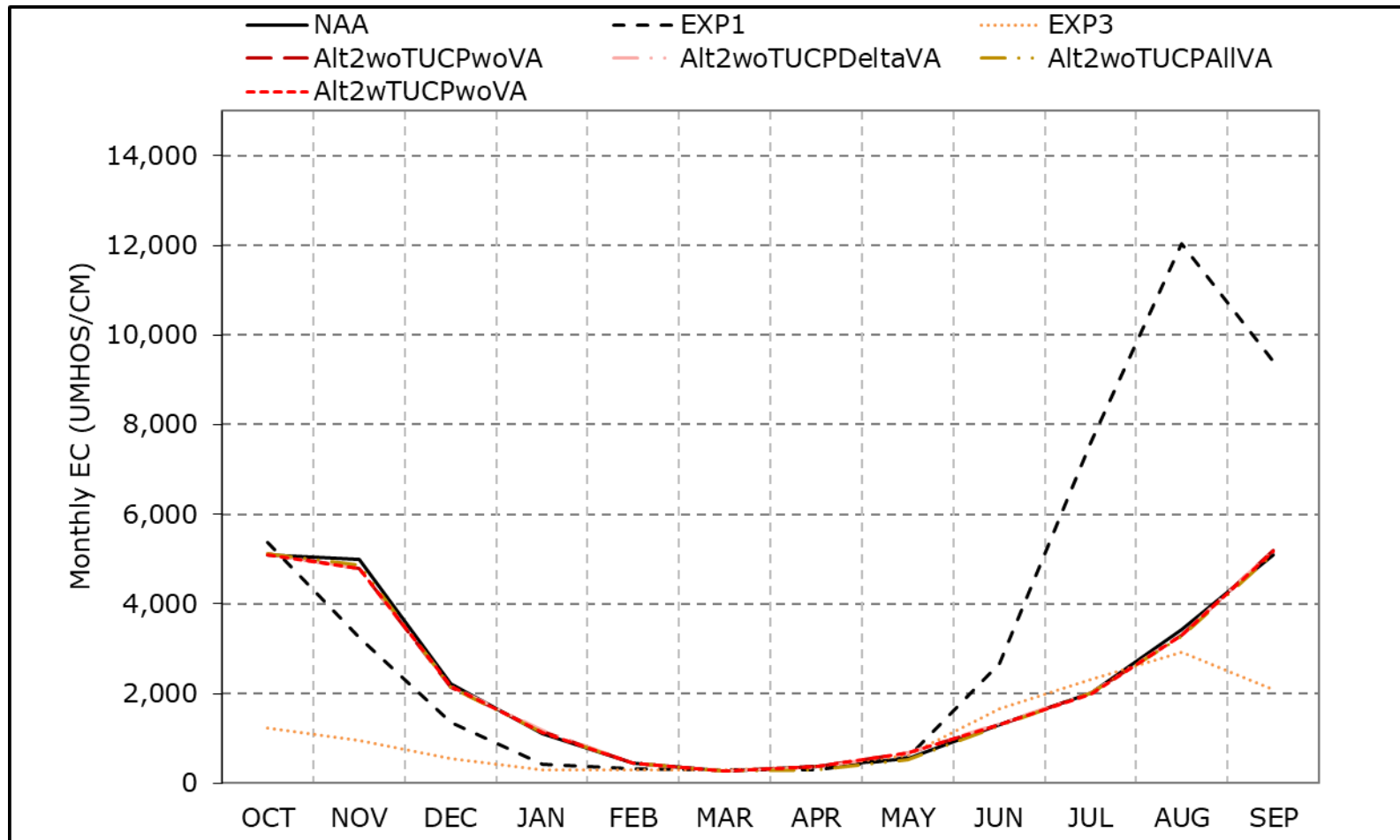


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-4. San Joaquin River at Antioch Salinity, Below Normal Year Average EC**

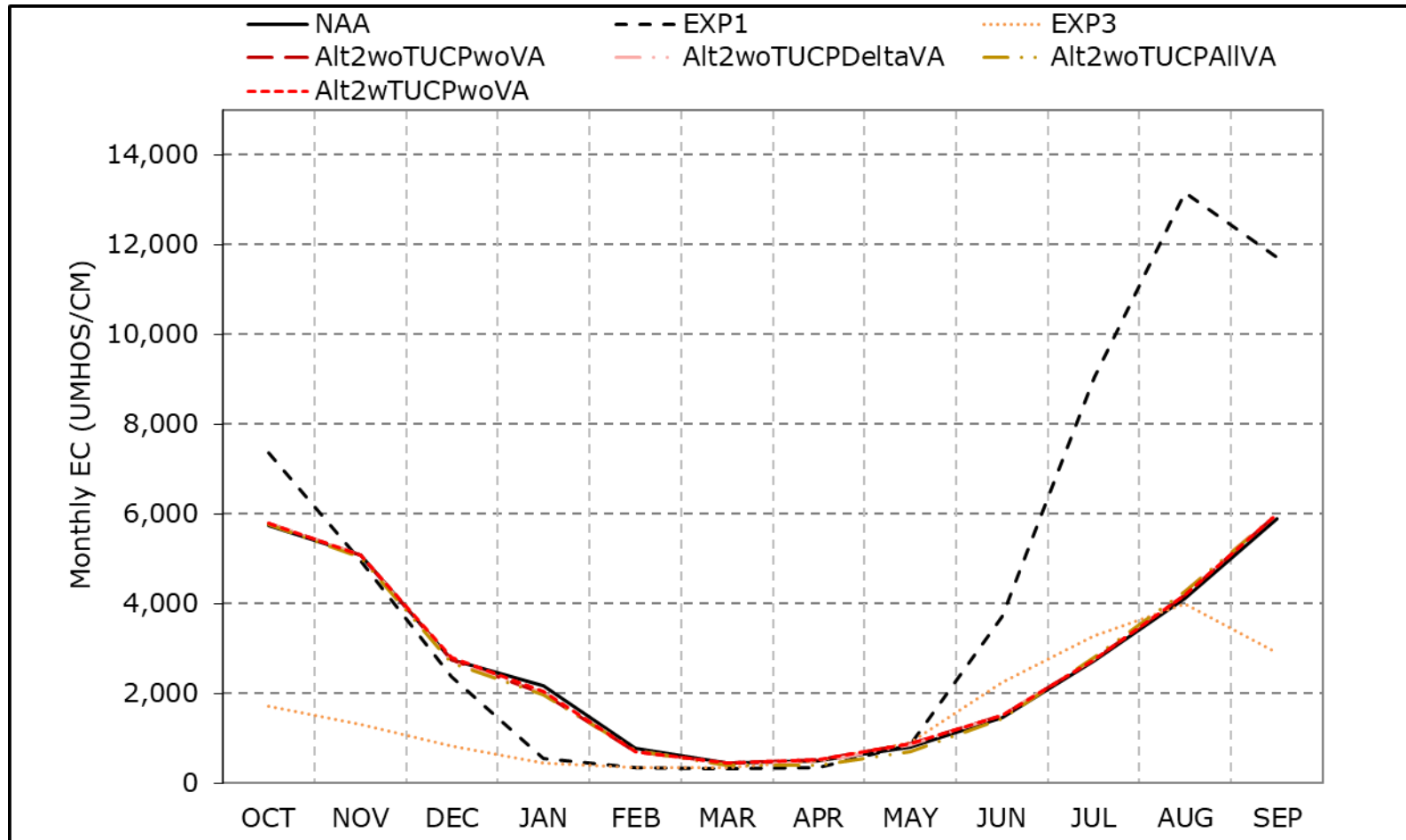


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-5. San Joaquin River at Antioch Salinity, Dry Year Average EC**

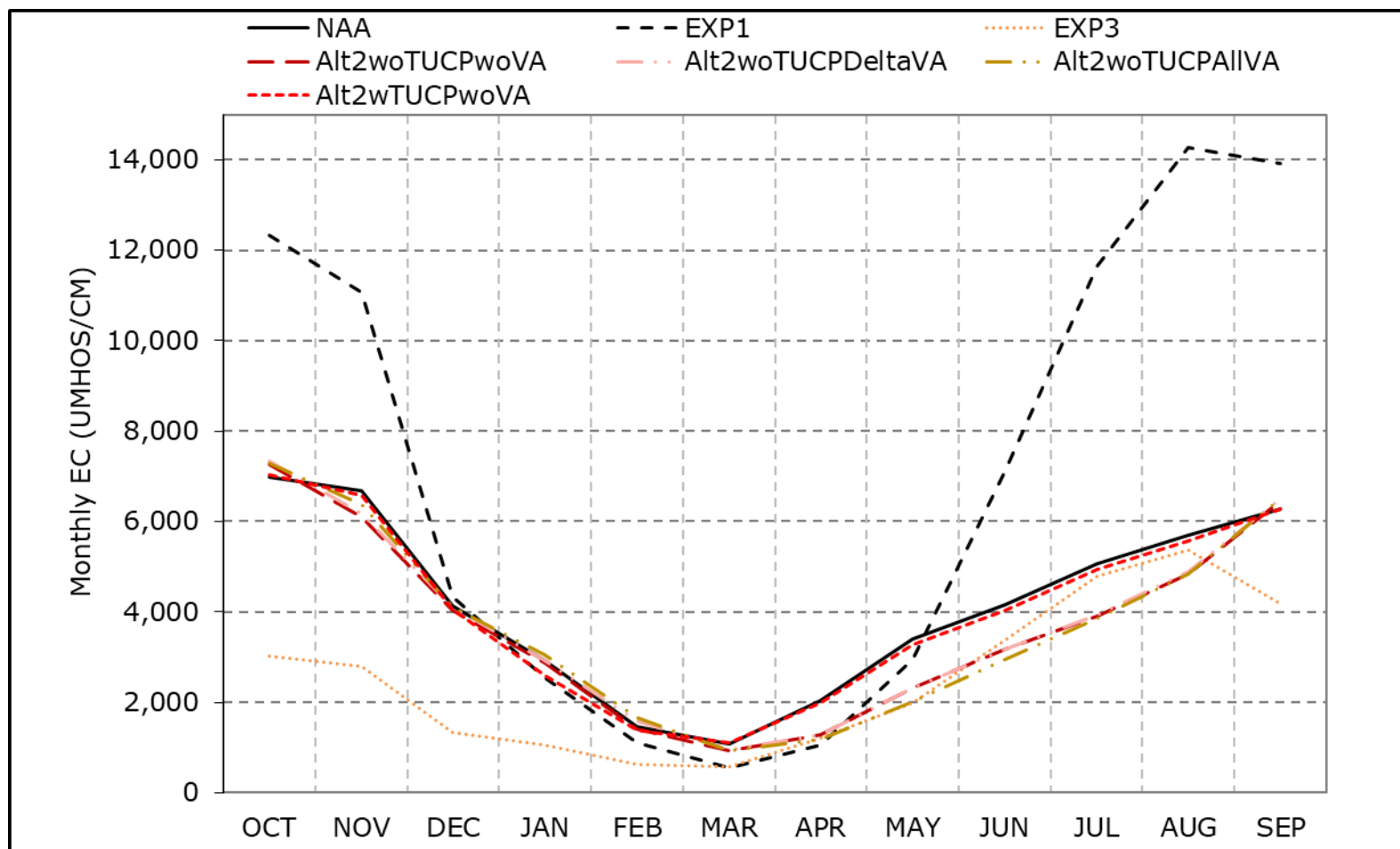


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-6. San Joaquin River at Antioch Salinity, Critical Year Average EC**

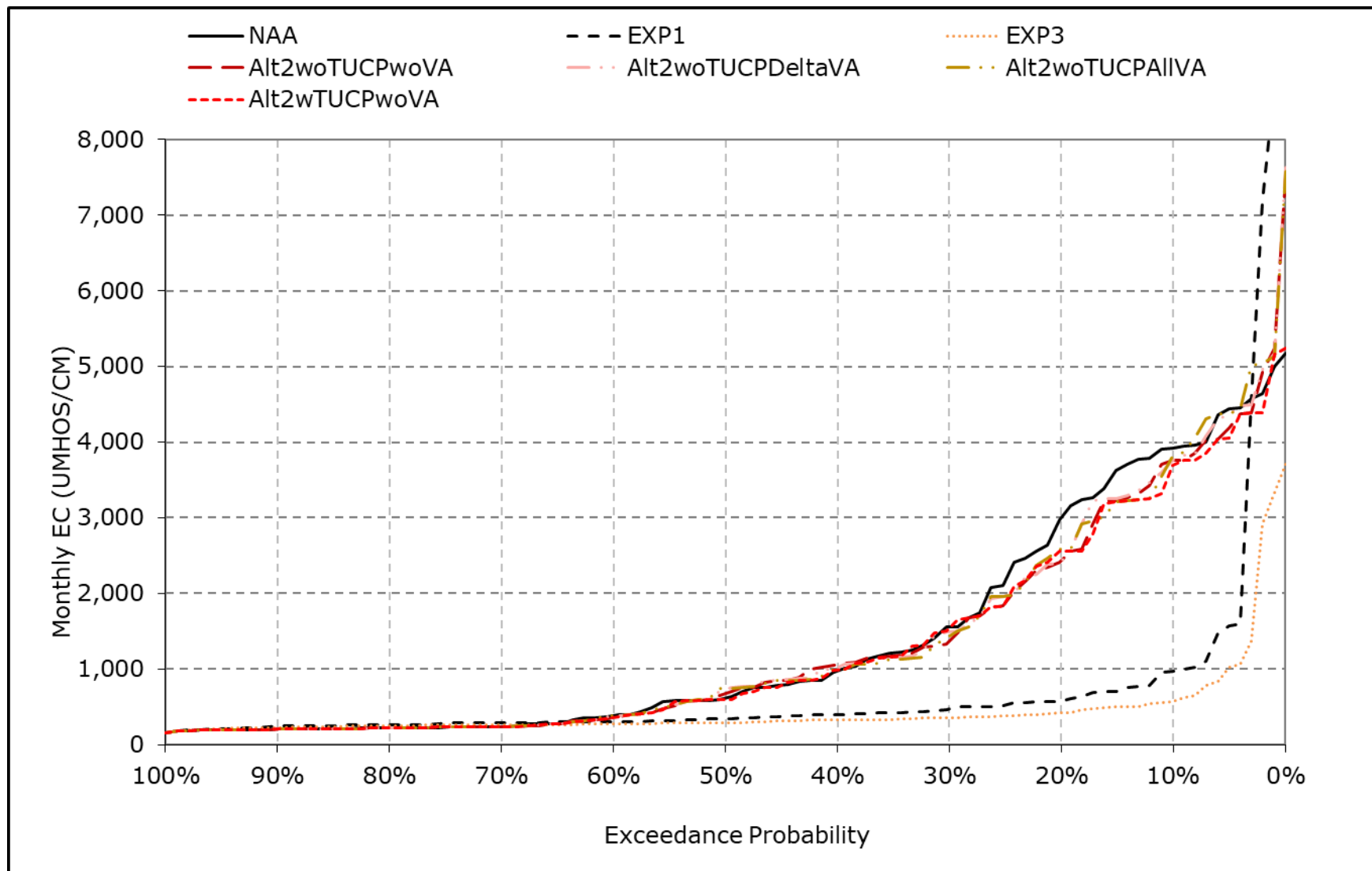


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

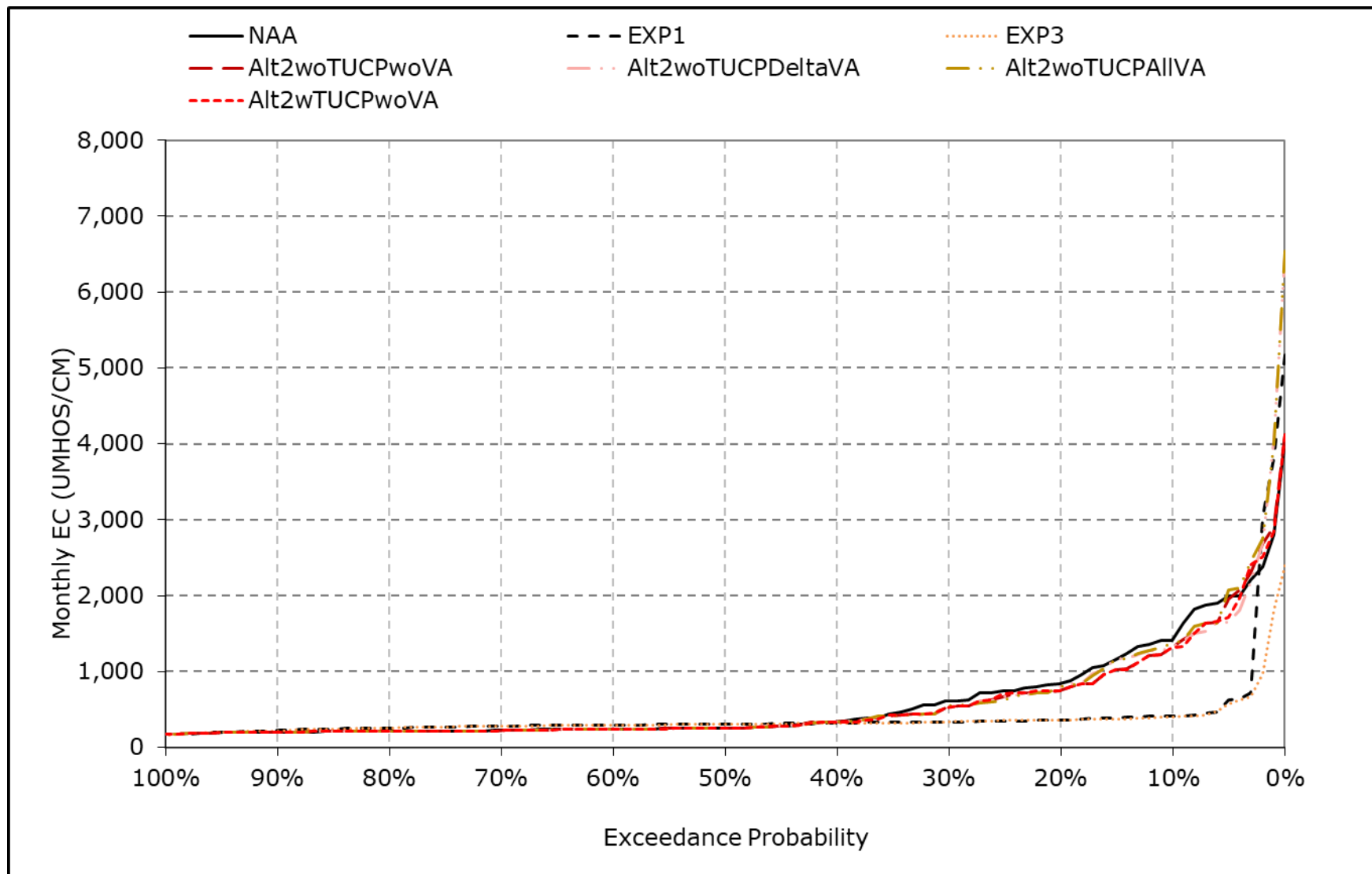
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-7. San Joaquin River at Antioch Salinity, January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

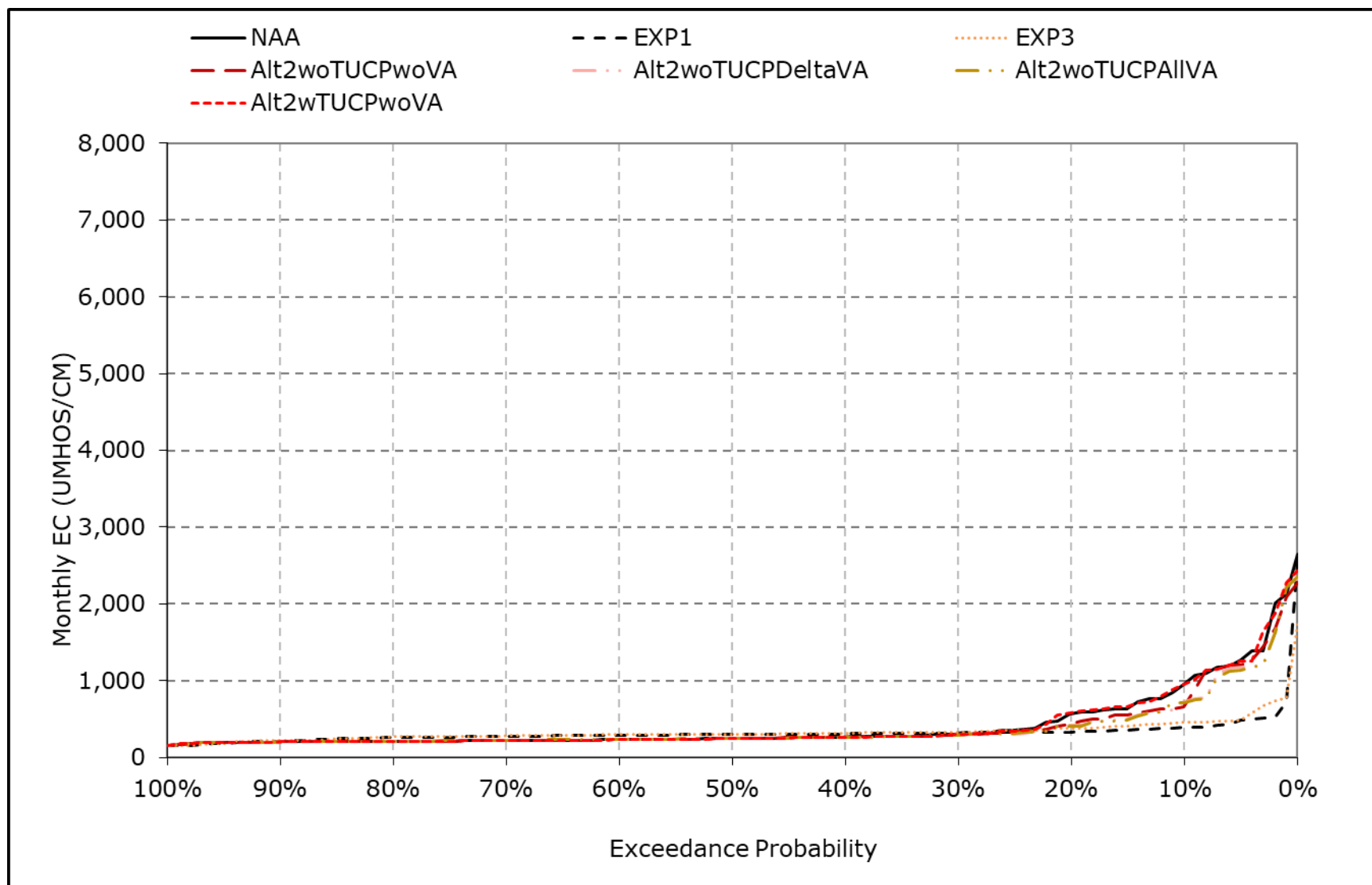
**Figure F.2.5-10-8. San Joaquin River at Antioch Salinity, February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

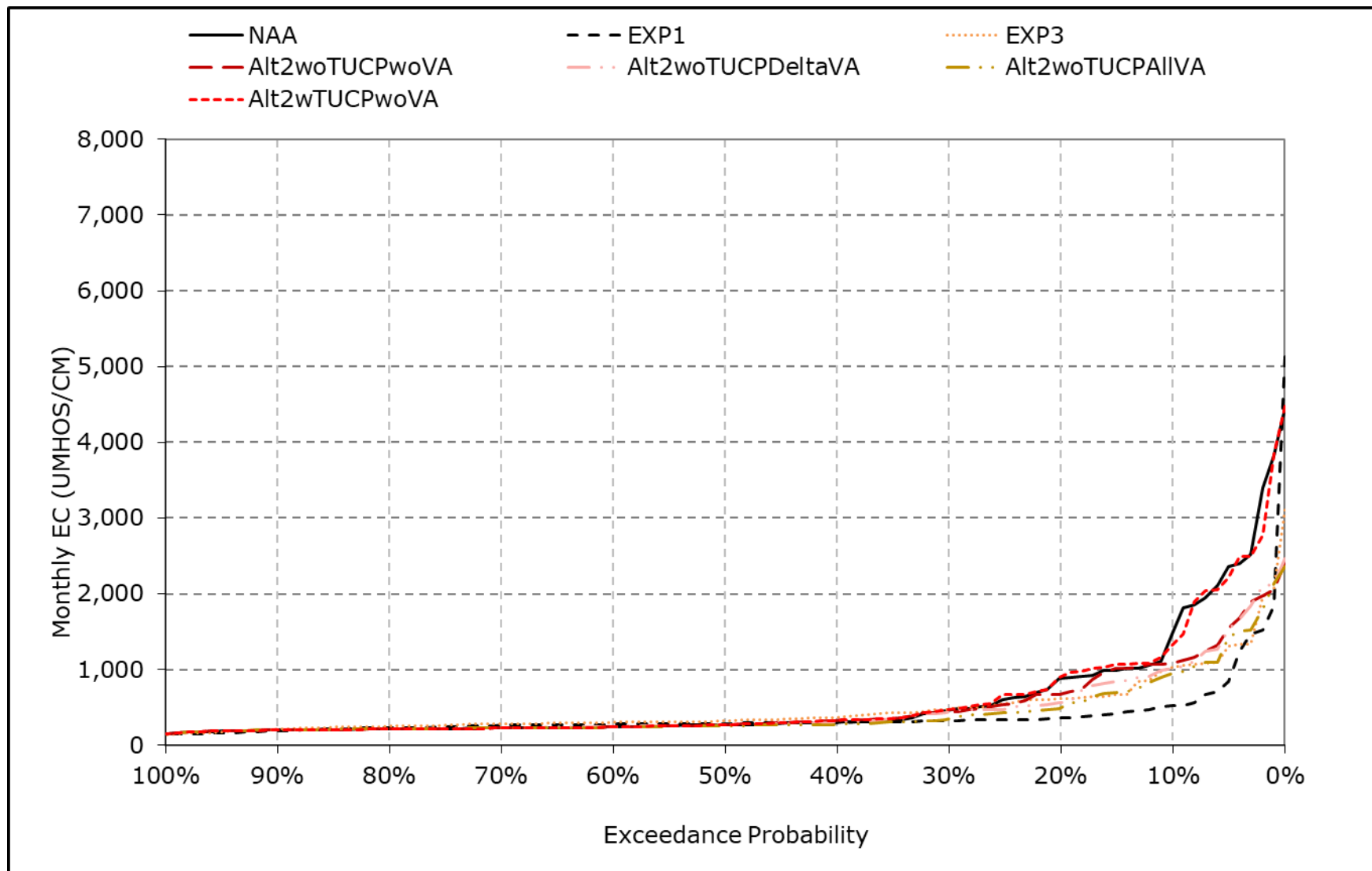


**Figure F.2.5-10-9. San Joaquin River at Antioch Salinity, March EC**



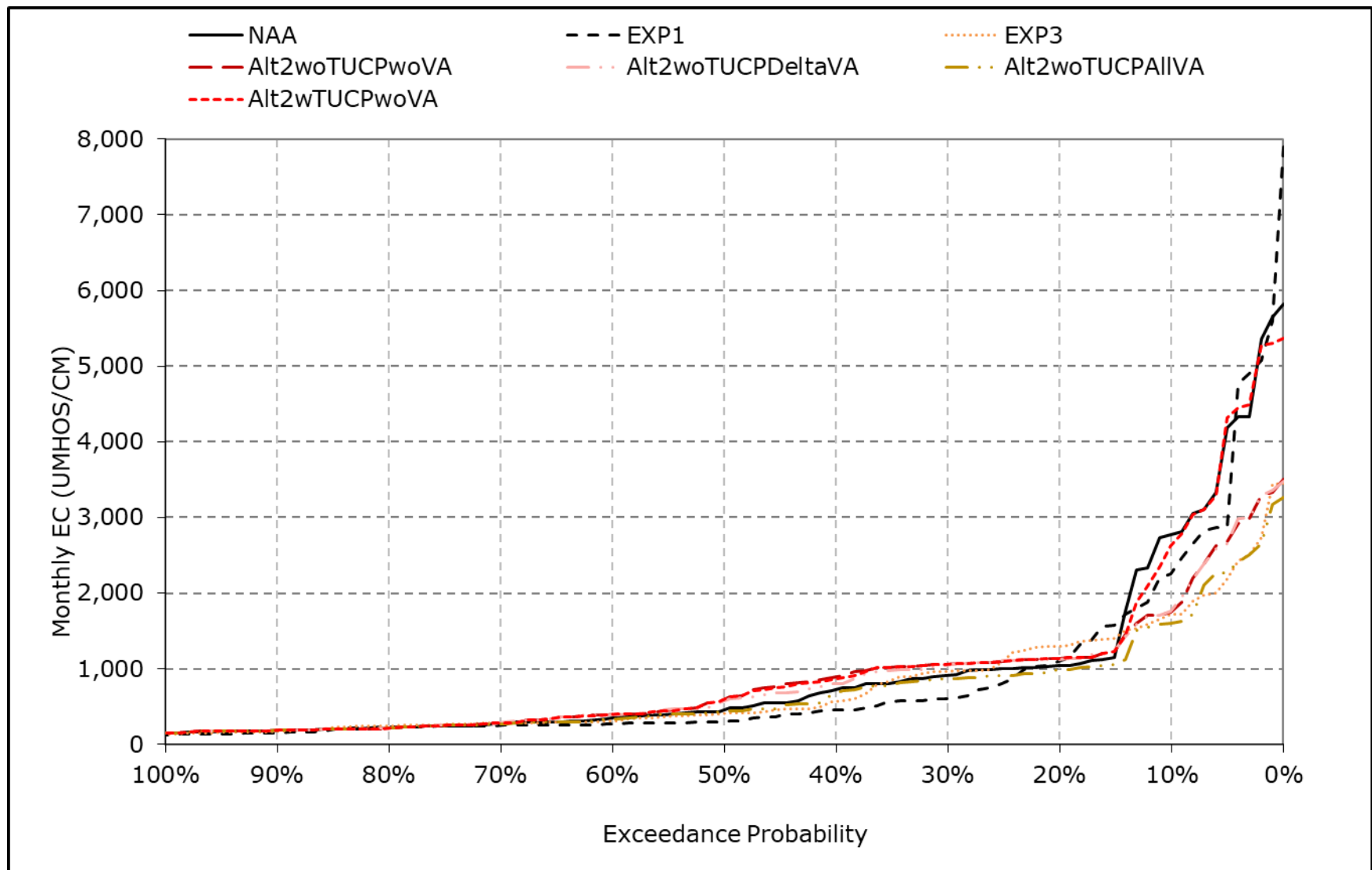
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-10. San Joaquin River at Antioch Salinity, April EC**



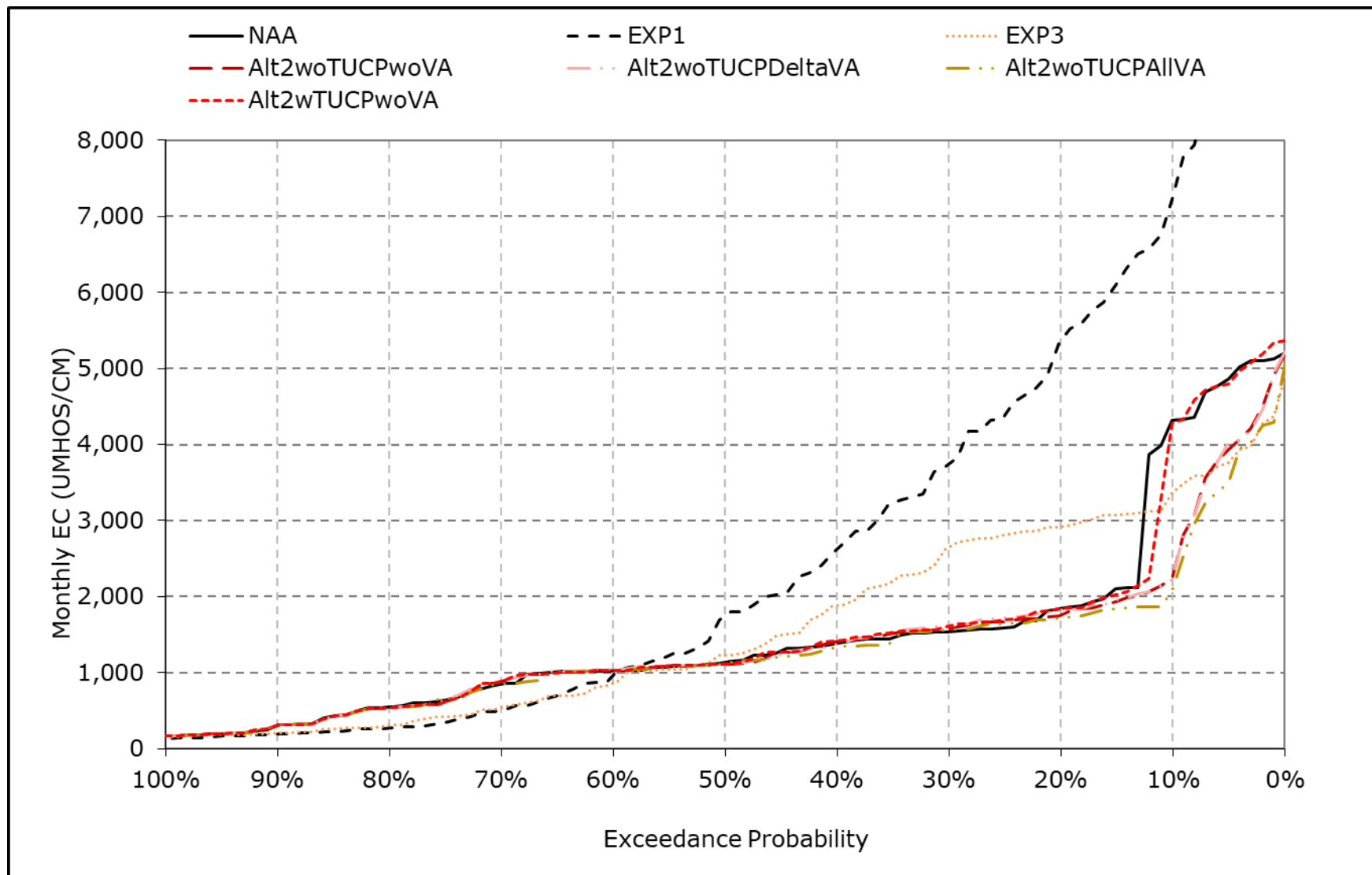
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-11. San Joaquin River at Antioch Salinity, May EC**



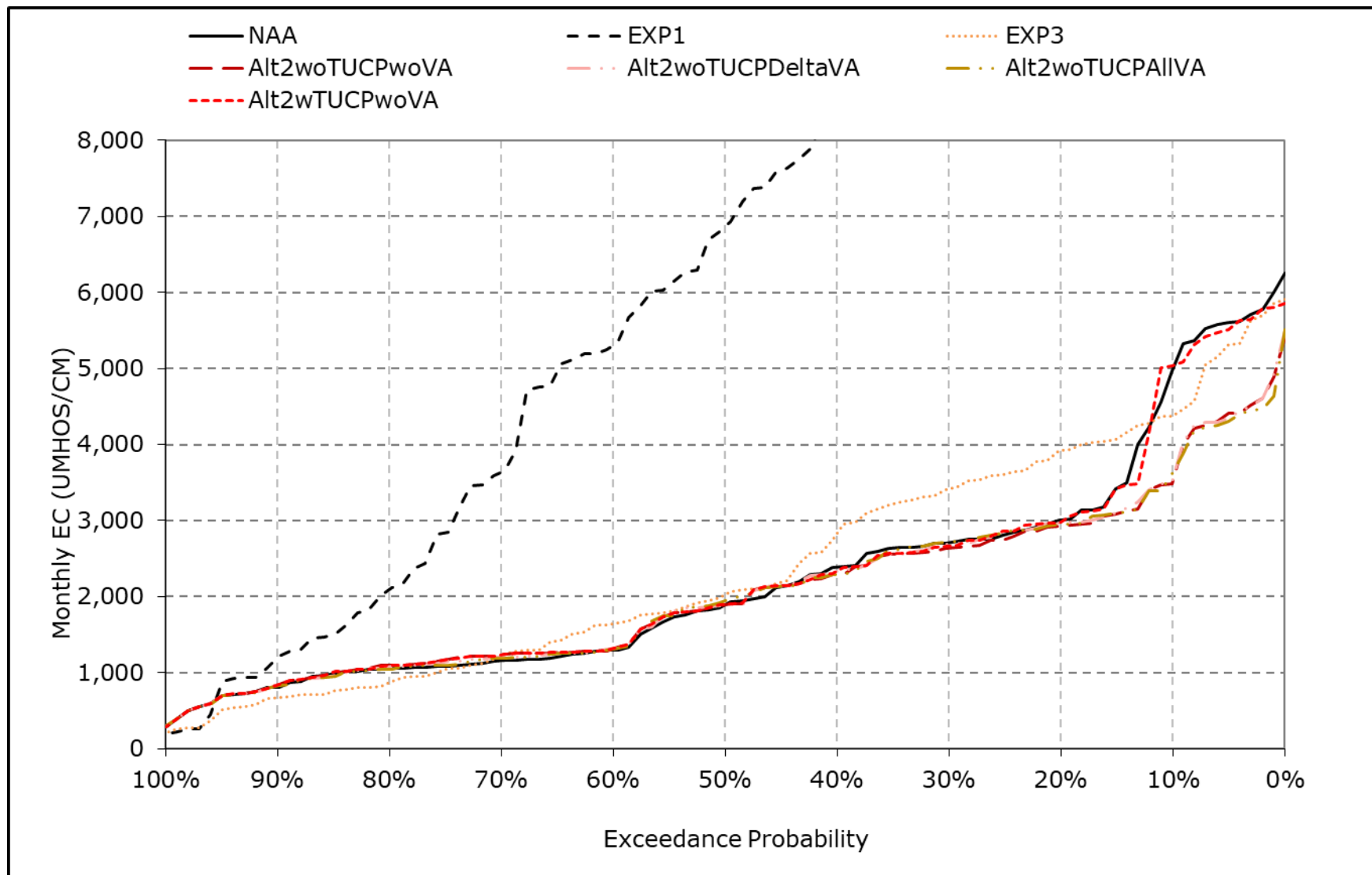
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-12. San Joaquin River at Antioch Salinity, June EC**



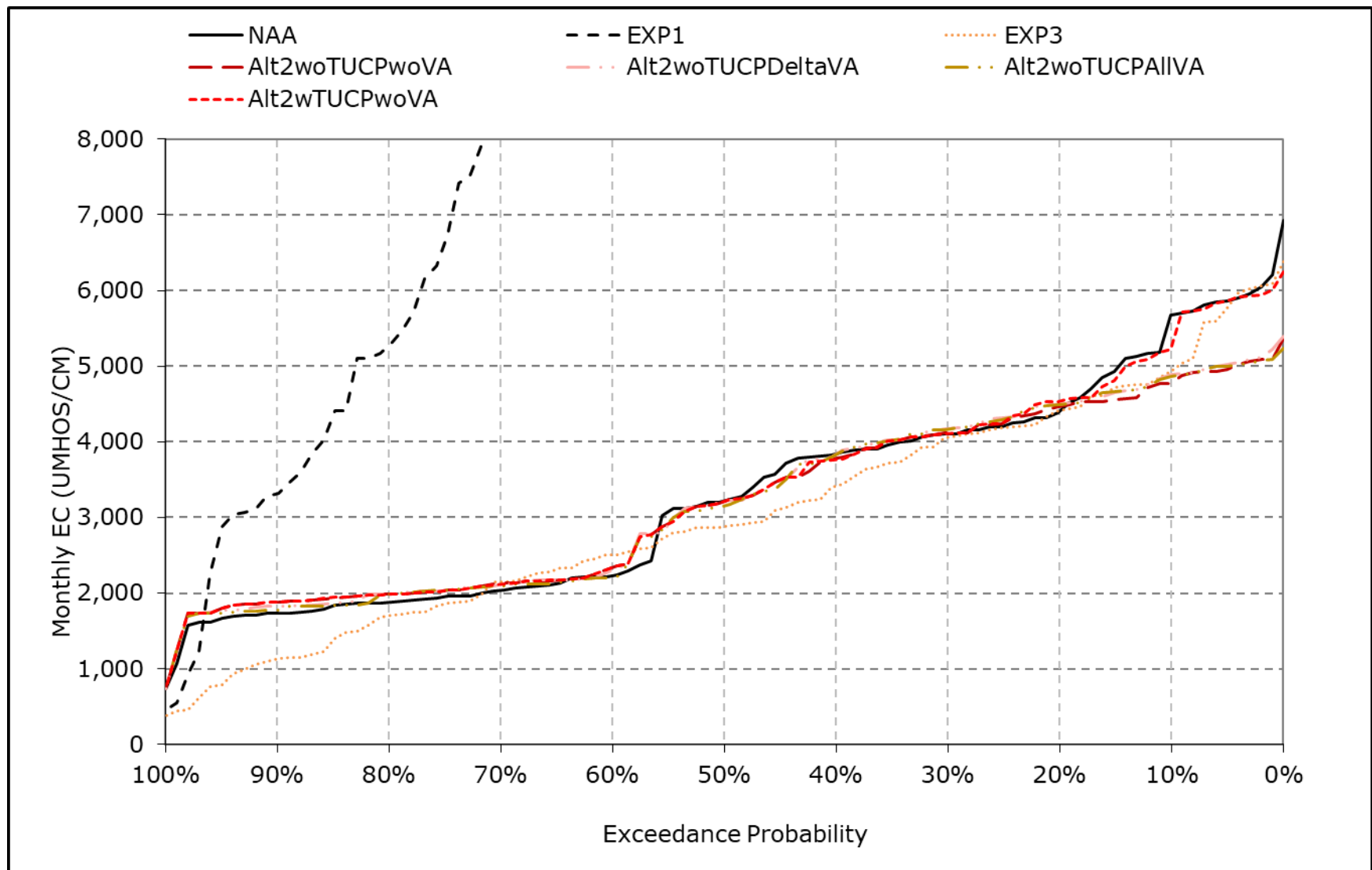
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-13. San Joaquin River at Antioch Salinity, July EC**



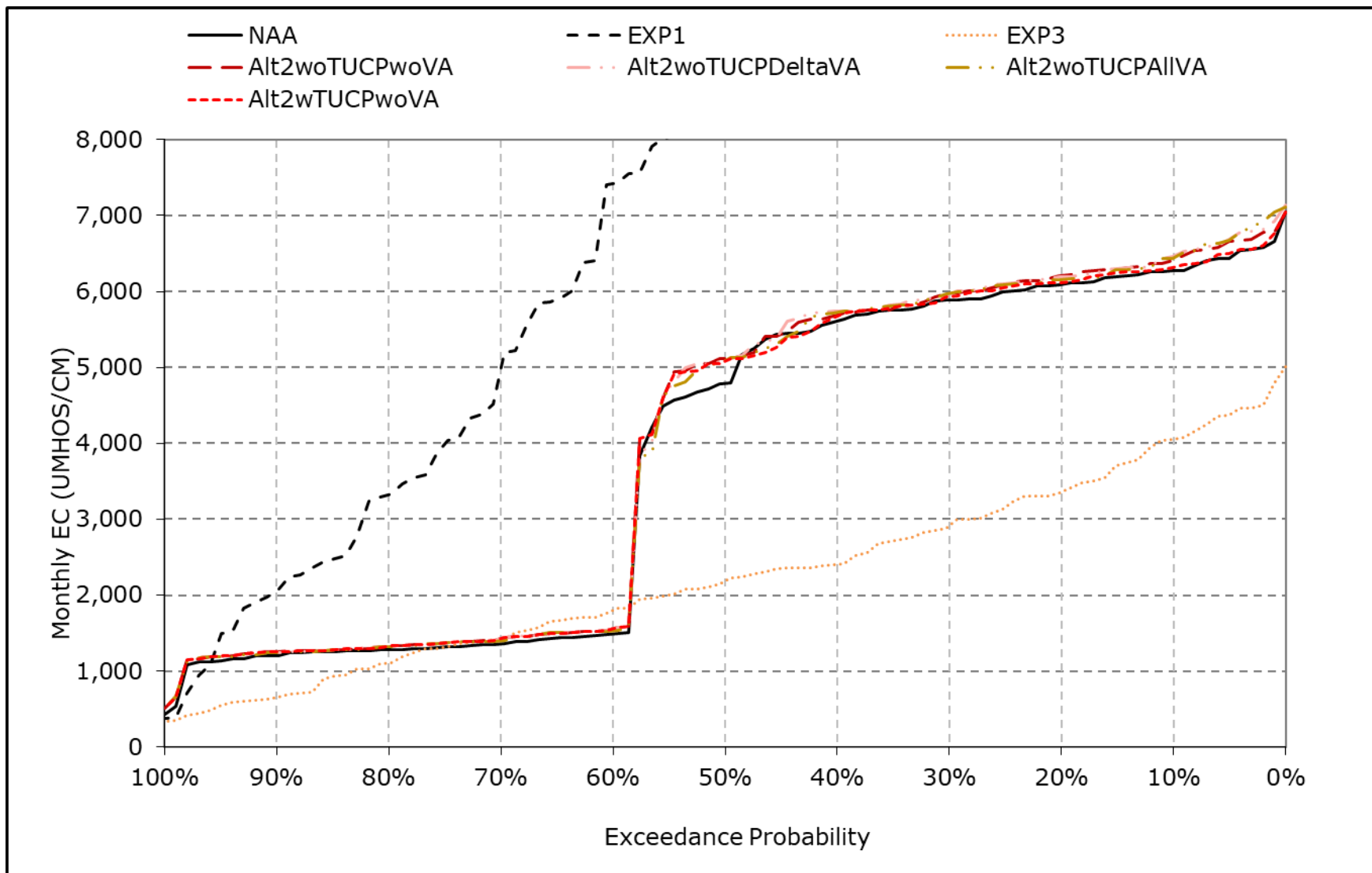
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-14. San Joaquin River at Antioch Salinity, August EC**



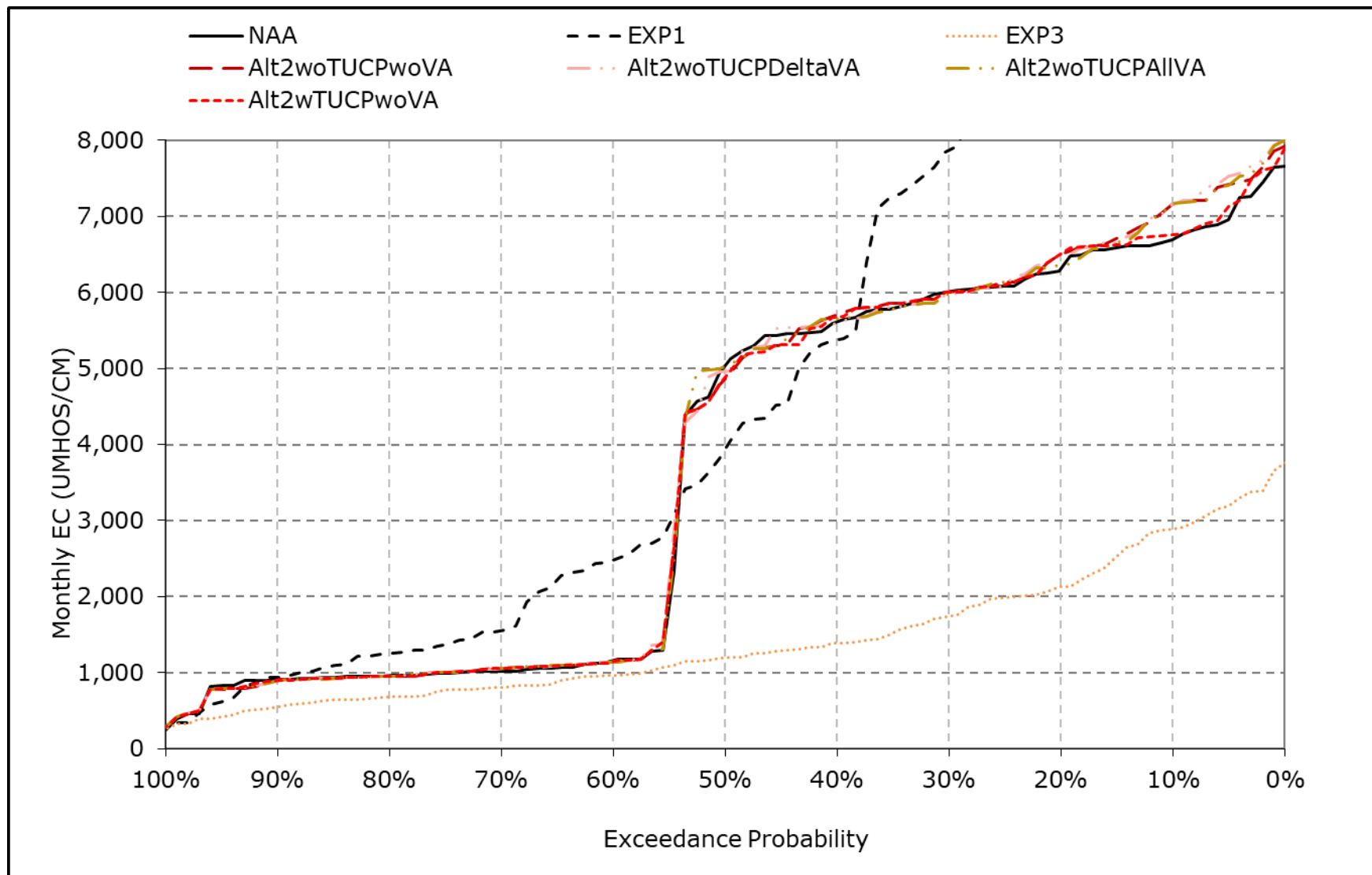
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-15. San Joaquin River at Antioch Salinity, September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

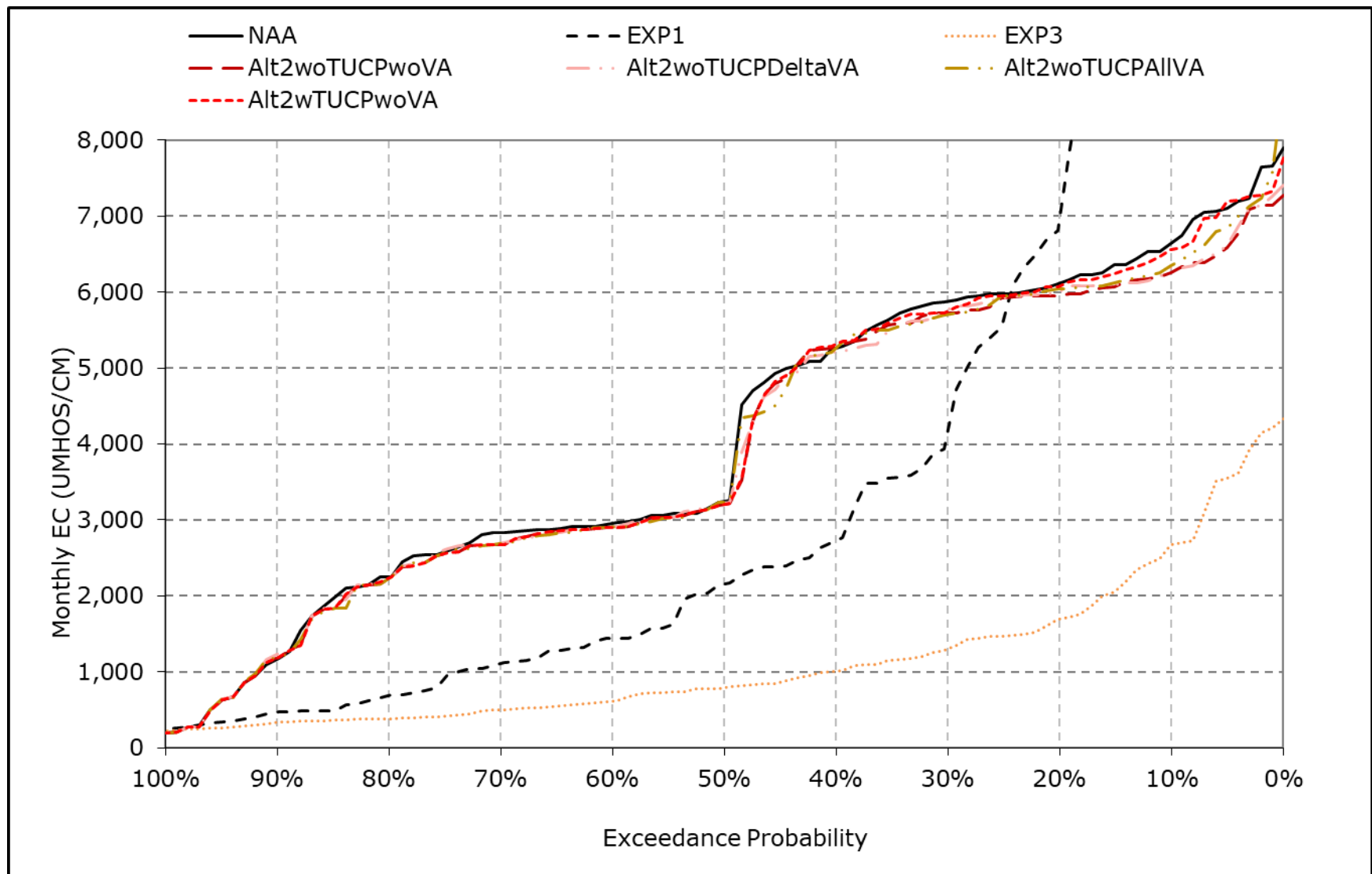
**Figure F.2.5-10-16. San Joaquin River at Antioch Salinity, October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

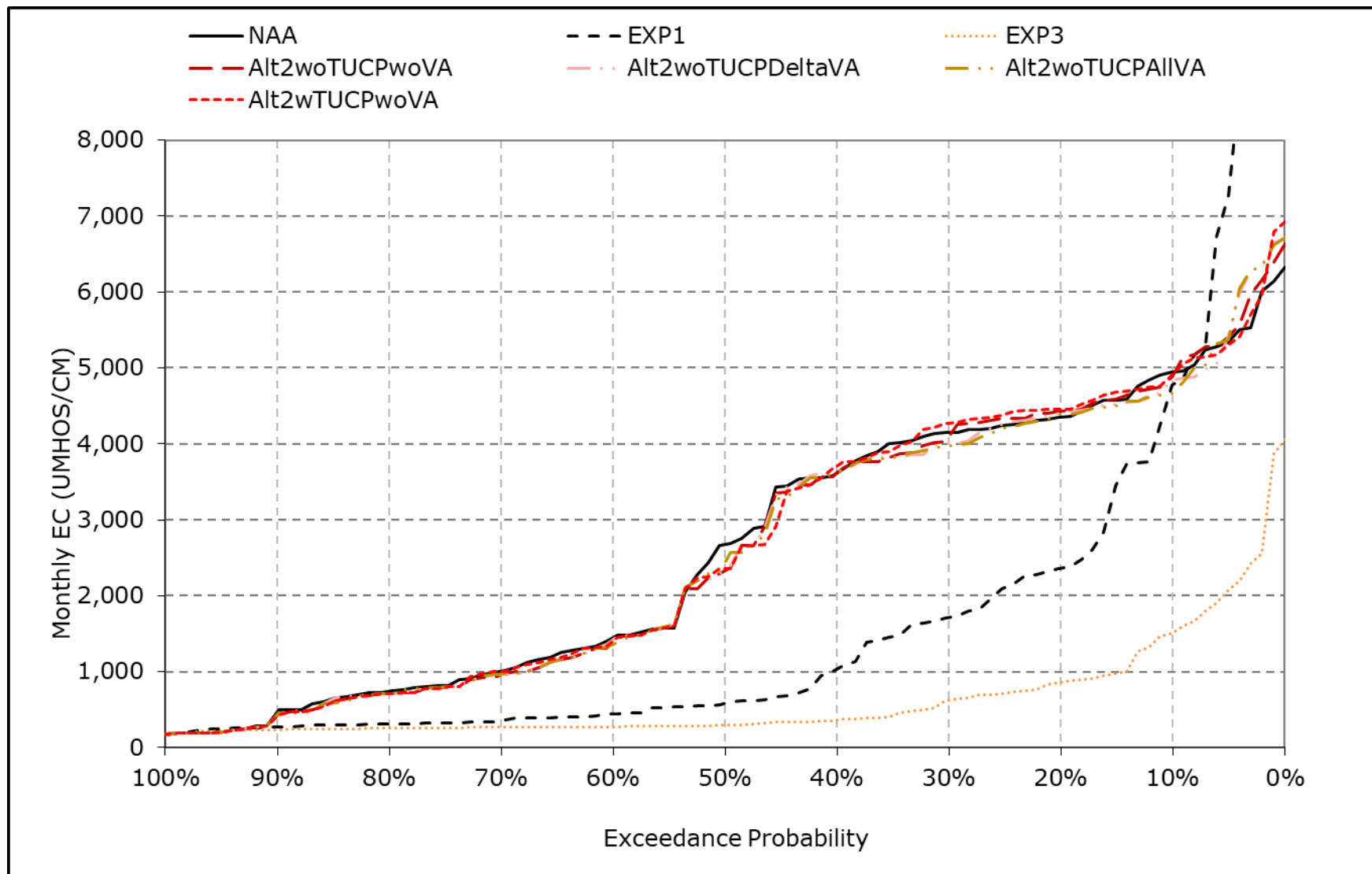


**Figure F.2.5-10-17. San Joaquin River at Antioch Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-10-18. San Joaquin River at Antioch Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-11-1a. Sacramento River at Mallard Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,882 | 15,242 | 12,048 | 9,974 | 5,264 | 4,501 | 6,362 | 8,889 | 11,350 | 12,907 | 14,176 | 15,455 |
| 20% Exceedance                              | 15,024 | 14,194 | 11,089 | 8,410 | 3,522 | 2,733 | 4,275 | 4,788 | 6,915  | 8,978  | 11,895 | 14,656 |
| 30% Exceedance                              | 14,504 | 13,873 | 10,499 | 5,137 | 1,557 | 1,163 | 2,468 | 4,435 | 6,088  | 8,462  | 11,345 | 14,148 |
| 40% Exceedance                              | 14,023 | 12,765 | 9,702  | 2,909 | 994   | 879   | 1,639 | 3,774 | 5,693  | 8,070  | 10,822 | 13,750 |
| 50% Exceedance                              | 13,120 | 9,043  | 7,139  | 1,888 | 550   | 596   | 1,123 | 2,578 | 5,029  | 6,848  | 9,189  | 11,883 |
| 60% Exceedance                              | 5,168  | 8,568  | 4,015  | 1,015 | 291   | 316   | 700   | 1,814 | 4,723  | 5,465  | 7,386  | 5,632  |
| 70% Exceedance                              | 4,969  | 8,341  | 2,051  | 345   | 216   | 229   | 440   | 1,158 | 4,253  | 4,899  | 6,985  | 5,337  |
| 80% Exceedance                              | 4,896  | 7,347  | 1,127  | 214   | 196   | 196   | 268   | 489   | 2,950  | 4,604  | 6,684  | 5,205  |
| 90% Exceedance                              | 4,730  | 4,319  | 637    | 192   | 188   | 187   | 199   | 265   | 1,773  | 4,205  | 6,348  | 5,085  |
| Full Simulation Period Average <sup>a</sup> | 10,065 | 10,304 | 6,523  | 3,617 | 1,733 | 1,444 | 2,230 | 3,444 | 5,454  | 7,240  | 9,538  | 10,286 |
| Wet Water Years (28%)                       | 4,674  | 6,515  | 5,357  | 417   | 215   | 286   | 404   | 943   | 2,729  | 4,255  | 6,540  | 5,090  |
| Above Normal Years (14%)                    | 4,690  | 7,523  | 5,910  | 1,767 | 388   | 321   | 607   | 1,706 | 3,879  | 4,812  | 6,853  | 5,132  |
| Below Normal Years (18%)                    | 12,757 | 12,046 | 5,428  | 3,059 | 1,531 | 975   | 1,621 | 2,655 | 5,256  | 6,953  | 9,602  | 12,463 |
| Dry Water Years (24%)                       | 13,922 | 11,989 | 6,983  | 6,077 | 2,454 | 1,795 | 2,466 | 3,831 | 5,902  | 8,529  | 11,399 | 14,177 |
| Critical Water Years (16%)                  | 16,101 | 15,370 | 9,890  | 7,773 | 4,713 | 4,453 | 7,175 | 9,646 | 11,153 | 12,980 | 14,271 | 15,601 |

**Table F.2.5-11-1b. Sacramento River at Mallard Slough Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,412 | 14,595 | 12,119 | 9,943 | 4,852 | 3,508 | 5,008 | 6,587 | 8,066 | 10,297 | 12,978 | 15,454 |
| 20% Exceedance                              | 15,157 | 14,277 | 11,190 | 7,174 | 3,241 | 2,241 | 3,563 | 5,002 | 6,785 | 9,056  | 11,972 | 14,676 |
| 30% Exceedance                              | 14,514 | 13,878 | 10,464 | 4,508 | 1,611 | 1,151 | 2,440 | 4,794 | 6,334 | 8,329  | 11,518 | 14,362 |
| 40% Exceedance                              | 14,060 | 12,735 | 9,621  | 3,037 | 955   | 820   | 1,778 | 4,337 | 5,765 | 8,045  | 10,617 | 13,834 |
| 50% Exceedance                              | 12,816 | 8,853  | 6,953  | 1,857 | 519   | 575   | 1,208 | 3,216 | 5,114 | 6,758  | 9,294  | 12,621 |
| 60% Exceedance                              | 5,153  | 8,489  | 4,161  | 891   | 293   | 317   | 760   | 2,116 | 4,773 | 5,431  | 7,551  | 5,688  |
| 70% Exceedance                              | 4,976  | 8,062  | 2,010  | 344   | 216   | 229   | 450   | 1,291 | 4,387 | 5,058  | 7,154  | 5,512  |
| 80% Exceedance                              | 4,878  | 7,168  | 1,132  | 212   | 196   | 200   | 274   | 545   | 2,924 | 4,706  | 6,937  | 5,362  |
| 90% Exceedance                              | 4,671  | 4,352  | 628    | 192   | 188   | 186   | 199   | 296   | 1,794 | 4,254  | 6,716  | 5,256  |
| Full Simulation Period Average <sup>a</sup> | 10,163 | 10,111 | 6,482  | 3,505 | 1,643 | 1,348 | 1,992 | 3,355 | 5,269 | 6,993  | 9,438  | 10,457 |
| Wet Water Years (28%)                       | 4,692  | 6,490  | 5,373  | 384   | 215   | 290   | 450   | 1,095 | 2,753 | 4,349  | 6,768  | 5,202  |
| Above Normal Years (14%)                    | 4,696  | 7,308  | 5,972  | 1,757 | 389   | 322   | 678   | 2,010 | 3,882 | 4,929  | 7,024  | 5,428  |
| Below Normal Years (18%)                    | 12,872 | 11,678 | 5,291  | 3,139 | 1,484 | 958   | 1,721 | 3,124 | 5,383 | 6,874  | 9,485  | 12,765 |
| Dry Water Years (24%)                       | 14,008 | 12,014 | 6,981  | 5,707 | 2,226 | 1,771 | 2,562 | 4,077 | 6,053 | 8,591  | 11,512 | 14,361 |
| Critical Water Years (16%)                  | 16,441 | 14,750 | 9,690  | 7,603 | 4,543 | 3,898 | 5,287 | 7,665 | 9,580 | 11,160 | 13,060 | 15,601 |

**Table F.2.5-11-1c. Sacramento River at Mallard Slough Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar  | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|--------|------|------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 530  | -647 | 71   | -32    | -412 | -993 | -1,355 | -2,301 | -3,284 | -2,610 | -1,198 | -1  |
| 20% Exceedance                              | 133  | 83   | 101  | -1,236 | -281 | -491 | -713   | 213    | -130   | 78     | 77     | 20  |
| 30% Exceedance                              | 10   | 5    | -35  | -630   | 54   | -12  | -28    | 358    | 246    | -133   | 173    | 213 |
| 40% Exceedance                              | 37   | -30  | -80  | 128    | -38  | -59  | 139    | 563    | 72     | -25    | -205   | 83  |
| 50% Exceedance                              | -304 | -189 | -186 | -31    | -31  | -21  | 86     | 637    | 85     | -90    | 105    | 738 |
| 60% Exceedance                              | -15  | -79  | 146  | -125   | 2    | 1    | 61     | 302    | 50     | -33    | 165    | 57  |
| 70% Exceedance                              | 7    | -279 | -41  | -2     | 0    | 0    | 10     | 133    | 133    | 159    | 169    | 176 |
| 80% Exceedance                              | -18  | -180 | 4    | -2     | 0    | 4    | 6      | 56     | -26    | 102    | 253    | 157 |
| 90% Exceedance                              | -60  | 33   | -9   | 0      | 0    | 0    | 0      | 32     | 21     | 50     | 368    | 170 |
| Full Simulation Period Average <sup>a</sup> | 98   | -193 | -42  | -112   | -90  | -96  | -238   | -88    | -186   | -248   | -100   | 171 |
| Wet Water Years (28%)                       | 18   | -25  | 15   | -33    | 0    | 4    | 46     | 152    | 24     | 94     | 227    | 112 |
| Above Normal Years (14%)                    | 6    | -216 | 62   | -10    | 0    | 1    | 71     | 304    | 2      | 117    | 171    | 296 |
| Below Normal Years (18%)                    | 115  | -368 | -137 | 79     | -47  | -18  | 100    | 469    | 127    | -79    | -117   | 302 |
| Dry Water Years (24%)                       | 85   | 25   | -2   | -370   | -228 | -24  | 95     | 246    | 151    | 62     | 113    | 184 |
| Critical Water Years (16%)                  | 340  | -619 | -200 | -170   | -170 | -555 | -1,888 | -1,981 | -1,573 | -1,820 | -1,211 | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-11-2a. Sacramento River at Mallard Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,882 | 15,242 | 12,048 | 9,974 | 5,264 | 4,501 | 6,362 | 8,889 | 11,350 | 12,907 | 14,176 | 15,455 |
| 20% Exceedance                              | 15,024 | 14,194 | 11,089 | 8,410 | 3,522 | 2,733 | 4,275 | 4,788 | 6,915  | 8,978  | 11,895 | 14,656 |
| 30% Exceedance                              | 14,504 | 13,873 | 10,499 | 5,137 | 1,557 | 1,163 | 2,468 | 4,435 | 6,088  | 8,462  | 11,345 | 14,148 |
| 40% Exceedance                              | 14,023 | 12,765 | 9,702  | 2,909 | 994   | 879   | 1,639 | 3,774 | 5,693  | 8,070  | 10,822 | 13,750 |
| 50% Exceedance                              | 13,120 | 9,043  | 7,139  | 1,888 | 550   | 596   | 1,123 | 2,578 | 5,029  | 6,848  | 9,189  | 11,883 |
| 60% Exceedance                              | 5,168  | 8,568  | 4,015  | 1,015 | 291   | 316   | 700   | 1,814 | 4,723  | 5,465  | 7,386  | 5,632  |
| 70% Exceedance                              | 4,969  | 8,341  | 2,051  | 345   | 216   | 229   | 440   | 1,158 | 4,253  | 4,899  | 6,985  | 5,337  |
| 80% Exceedance                              | 4,896  | 7,347  | 1,127  | 214   | 196   | 196   | 268   | 489   | 2,950  | 4,604  | 6,684  | 5,205  |
| 90% Exceedance                              | 4,730  | 4,319  | 637    | 192   | 188   | 187   | 199   | 265   | 1,773  | 4,205  | 6,348  | 5,085  |
| Full Simulation Period Average <sup>a</sup> | 10,065 | 10,304 | 6,523  | 3,617 | 1,733 | 1,444 | 2,230 | 3,444 | 5,454  | 7,240  | 9,538  | 10,286 |
| Wet Water Years (28%)                       | 4,674  | 6,515  | 5,357  | 417   | 215   | 286   | 404   | 943   | 2,729  | 4,255  | 6,540  | 5,090  |
| Above Normal Years (14%)                    | 4,690  | 7,523  | 5,910  | 1,767 | 388   | 321   | 607   | 1,706 | 3,879  | 4,812  | 6,853  | 5,132  |
| Below Normal Years (18%)                    | 12,757 | 12,046 | 5,428  | 3,059 | 1,531 | 975   | 1,621 | 2,655 | 5,256  | 6,953  | 9,602  | 12,463 |
| Dry Water Years (24%)                       | 13,922 | 11,989 | 6,983  | 6,077 | 2,454 | 1,795 | 2,466 | 3,831 | 5,902  | 8,529  | 11,399 | 14,177 |
| Critical Water Years (16%)                  | 16,101 | 15,370 | 9,890  | 7,773 | 4,713 | 4,453 | 7,175 | 9,646 | 11,153 | 12,980 | 14,271 | 15,601 |

**Table F.2.5-11-2b. Sacramento River at Mallard Slough Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,448 | 14,758 | 11,659 | 9,791 | 5,221 | 3,378 | 4,717 | 6,611 | 8,053 | 10,242 | 12,997 | 15,459 |
| 20% Exceedance                              | 15,149 | 14,262 | 11,144 | 7,276 | 3,216 | 2,117 | 3,070 | 4,975 | 6,985 | 9,057  | 11,999 | 14,701 |
| 30% Exceedance                              | 14,596 | 13,905 | 10,437 | 4,539 | 1,640 | 1,093 | 2,316 | 4,724 | 6,375 | 8,384  | 11,482 | 14,345 |
| 40% Exceedance                              | 13,816 | 12,519 | 9,638  | 3,024 | 954   | 793   | 1,521 | 3,908 | 5,715 | 8,094  | 10,597 | 13,864 |
| 50% Exceedance                              | 13,197 | 8,873  | 6,912  | 2,048 | 520   | 556   | 1,095 | 3,045 | 5,106 | 6,794  | 9,217  | 12,591 |
| 60% Exceedance                              | 5,199  | 8,522  | 4,175  | 910   | 295   | 307   | 680   | 2,089 | 4,805 | 5,464  | 7,528  | 5,664  |
| 70% Exceedance                              | 4,978  | 8,043  | 2,008  | 342   | 216   | 228   | 418   | 1,291 | 4,396 | 4,992  | 7,156  | 5,496  |
| 80% Exceedance                              | 4,875  | 7,165  | 1,158  | 212   | 196   | 200   | 274   | 538   | 2,918 | 4,621  | 6,902  | 5,342  |
| 90% Exceedance                              | 4,676  | 4,344  | 621    | 192   | 188   | 186   | 198   | 299   | 1,812 | 4,249  | 6,569  | 5,231  |
| Full Simulation Period Average <sup>a</sup> | 10,168 | 10,124 | 6,468  | 3,541 | 1,705 | 1,268 | 1,870 | 3,294 | 5,292 | 6,978  | 9,409  | 10,447 |
| Wet Water Years (28%)                       | 4,697  | 6,491  | 5,369  | 401   | 216   | 287   | 432   | 1,091 | 2,774 | 4,315  | 6,743  | 5,192  |
| Above Normal Years (14%)                    | 4,700  | 7,306  | 5,871  | 1,760 | 390   | 317   | 536   | 1,823 | 3,927 | 4,863  | 6,945  | 5,405  |
| Below Normal Years (18%)                    | 12,838 | 11,647 | 5,318  | 3,154 | 1,506 | 808   | 1,511 | 3,090 | 5,433 | 6,901  | 9,439  | 12,734 |
| Dry Water Years (24%)                       | 14,014 | 12,024 | 6,905  | 5,787 | 2,278 | 1,563 | 2,318 | 3,956 | 6,060 | 8,603  | 11,499 | 14,361 |
| Critical Water Years (16%)                  | 16,491 | 14,854 | 9,799  | 7,662 | 4,824 | 3,894 | 5,284 | 7,672 | 9,583 | 11,140 | 13,062 | 15,609 |

**Table F.2.5-11-2c. Sacramento River at Mallard Slough Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 566  | -484 | -389 | -183   | -44  | -1,123 | -1,646 | -2,278 | -3,297 | -2,665 | -1,179 | 3   |
| 20% Exceedance                              | 125  | 69   | 55   | -1,135 | -306 | -615   | -1,205 | 186    | 70     | 79     | 104    | 45  |
| 30% Exceedance                              | 92   | 33   | -63  | -599   | 84   | -70    | -152   | 288    | 287    | -78    | 137    | 197 |
| 40% Exceedance                              | -207 | -247 | -63  | 115    | -39  | -86    | -118   | 134    | 22     | 25     | -225   | 113 |
| 50% Exceedance                              | 77   | -170 | -228 | 160    | -31  | -40    | -28    | 467    | 77     | -54    | 28     | 708 |
| 60% Exceedance                              | 30   | -46  | 160  | -105   | 3    | -9     | -20    | 274    | 82     | 0      | 142    | 32  |
| 70% Exceedance                              | 8    | -298 | -43  | -3     | 1    | -1     | -22    | 133    | 142    | 92     | 171    | 159 |
| 80% Exceedance                              | -21  | -183 | 30   | -1     | 0    | 3      | 6      | 49     | -33    | 17     | 217    | 137 |
| 90% Exceedance                              | -54  | 25   | -16  | 0      | 0    | 0      | -1     | 34     | 39     | 45     | 221    | 145 |
| Full Simulation Period Average <sup>a</sup> | 103  | -180 | -55  | -76    | -29  | -176   | -360   | -150   | -162   | -262   | -129   | 161 |
| Wet Water Years (28%)                       | 23   | -24  | 12   | -16    | 1    | 1      | 28     | 148    | 45     | 60     | 203    | 102 |
| Above Normal Years (14%)                    | 9    | -218 | -39  | -7     | 2    | -4     | -72    | 118    | 48     | 51     | 92     | 273 |
| Below Normal Years (18%)                    | 81   | -399 | -110 | 94     | -25  | -167   | -111   | 435    | 176    | -52    | -163   | 271 |
| Dry Water Years (24%)                       | 91   | 35   | -79  | -290   | -176 | -232   | -148   | 125    | 158    | 74     | 100    | 184 |
| Critical Water Years (16%)                  | 389  | -516 | -91  | -111   | 111  | -559   | -1,891 | -1,974 | -1,570 | -1,840 | -1,209 | 7   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-11-3a. Sacramento River at Mallard Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 15,882 | 15,242 | 12,048 | 9,974 | 5,264 | 4,501 | 6,362 | 8,889 | 11,350 | 12,907 | 14,176 | 15,455 |
| <b>20% Exceedance</b>                             | 15,024 | 14,194 | 11,089 | 8,410 | 3,522 | 2,733 | 4,275 | 4,788 | 6,915  | 8,978  | 11,895 | 14,656 |
| <b>30% Exceedance</b>                             | 14,504 | 13,873 | 10,499 | 5,137 | 1,557 | 1,163 | 2,468 | 4,435 | 6,088  | 8,462  | 11,345 | 14,148 |
| <b>40% Exceedance</b>                             | 14,023 | 12,765 | 9,702  | 2,909 | 994   | 879   | 1,639 | 3,774 | 5,693  | 8,070  | 10,822 | 13,750 |
| <b>50% Exceedance</b>                             | 13,120 | 9,043  | 7,139  | 1,888 | 550   | 596   | 1,123 | 2,578 | 5,029  | 6,848  | 9,189  | 11,883 |
| <b>60% Exceedance</b>                             | 5,168  | 8,568  | 4,015  | 1,015 | 291   | 316   | 700   | 1,814 | 4,723  | 5,465  | 7,386  | 5,632  |
| <b>70% Exceedance</b>                             | 4,969  | 8,341  | 2,051  | 345   | 216   | 229   | 440   | 1,158 | 4,253  | 4,899  | 6,985  | 5,337  |
| <b>80% Exceedance</b>                             | 4,896  | 7,347  | 1,127  | 214   | 196   | 196   | 268   | 489   | 2,950  | 4,604  | 6,684  | 5,205  |
| <b>90% Exceedance</b>                             | 4,730  | 4,319  | 637    | 192   | 188   | 187   | 199   | 265   | 1,773  | 4,205  | 6,348  | 5,085  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 10,065 | 10,304 | 6,523  | 3,617 | 1,733 | 1,444 | 2,230 | 3,444 | 5,454  | 7,240  | 9,538  | 10,286 |
| <b>Wet Water Years (28%)</b>                      | 4,674  | 6,515  | 5,357  | 417   | 215   | 286   | 404   | 943   | 2,729  | 4,255  | 6,540  | 5,090  |
| <b>Above Normal Years (14%)</b>                   | 4,690  | 7,523  | 5,910  | 1,767 | 388   | 321   | 607   | 1,706 | 3,879  | 4,812  | 6,853  | 5,132  |
| <b>Below Normal Years (18%)</b>                   | 12,757 | 12,046 | 5,428  | 3,059 | 1,531 | 975   | 1,621 | 2,655 | 5,256  | 6,953  | 9,602  | 12,463 |
| <b>Dry Water Years (24%)</b>                      | 13,922 | 11,989 | 6,983  | 6,077 | 2,454 | 1,795 | 2,466 | 3,831 | 5,902  | 8,529  | 11,399 | 14,177 |
| <b>Critical Water Years (16%)</b>                 | 16,101 | 15,370 | 9,890  | 7,773 | 4,713 | 4,453 | 7,175 | 9,646 | 11,153 | 12,980 | 14,271 | 15,601 |

**Table F.2.5-11-3b. Sacramento River at Mallard Slough Salinity, Alt2woTUCPAIIVa, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 16,406 | 14,908 | 11,778 | 9,771 | 5,186 | 3,273 | 4,408 | 6,301 | 7,425 | 10,368 | 12,889 | 15,480 |
| <b>20% Exceedance</b>                             | 15,035 | 14,350 | 10,939 | 7,663 | 3,223 | 2,125 | 2,840 | 4,524 | 6,692 | 9,027  | 11,971 | 14,674 |
| <b>30% Exceedance</b>                             | 14,499 | 13,926 | 10,463 | 4,564 | 1,634 | 1,078 | 1,935 | 4,171 | 6,231 | 8,490  | 11,510 | 14,367 |
| <b>40% Exceedance</b>                             | 13,848 | 12,612 | 9,535  | 2,974 | 953   | 782   | 1,236 | 3,388 | 5,526 | 8,142  | 10,541 | 13,882 |
| <b>50% Exceedance</b>                             | 13,021 | 8,876  | 6,894  | 2,033 | 518   | 588   | 884   | 2,362 | 5,127 | 6,903  | 9,154  | 12,557 |
| <b>60% Exceedance</b>                             | 5,199  | 8,462  | 4,167  | 951   | 295   | 311   | 588   | 1,697 | 4,764 | 5,331  | 7,505  | 5,664  |
| <b>70% Exceedance</b>                             | 4,980  | 8,027  | 2,002  | 340   | 217   | 229   | 393   | 1,193 | 4,218 | 4,954  | 7,095  | 5,498  |
| <b>80% Exceedance</b>                             | 4,879  | 7,168  | 1,179  | 213   | 196   | 199   | 263   | 490   | 2,946 | 4,621  | 6,854  | 5,336  |
| <b>90% Exceedance</b>                             | 4,678  | 4,355  | 593    | 192   | 188   | 186   | 198   | 296   | 1,865 | 4,231  | 6,477  | 5,224  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 10,145 | 10,144 | 6,453  | 3,542 | 1,729 | 1,257 | 1,670 | 2,911 | 5,131 | 6,961  | 9,370  | 10,413 |
| <b>Wet Water Years (28%)</b>                      | 4,692  | 6,495  | 5,366  | 406   | 216   | 288   | 427   | 1,061 | 2,771 | 4,304  | 6,720  | 5,188  |
| <b>Above Normal Years (14%)</b>                   | 4,709  | 7,299  | 5,855  | 1,745 | 390   | 317   | 474   | 1,499 | 3,818 | 4,825  | 6,850  | 5,405  |
| <b>Below Normal Years (18%)</b>                   | 12,808 | 11,769 | 5,263  | 3,104 | 1,507 | 803   | 1,156 | 2,488 | 5,264 | 6,910  | 9,381  | 12,595 |
| <b>Dry Water Years (24%)</b>                      | 13,971 | 11,880 | 6,849  | 5,685 | 2,302 | 1,535 | 1,971 | 3,441 | 5,854 | 8,635  | 11,504 | 14,350 |
| <b>Critical Water Years (16%)</b>                 | 16,442 | 15,071 | 9,870  | 7,880 | 4,940 | 3,870 | 5,017 | 7,066 | 9,177 | 11,024 | 13,001 | 15,577 |

**Table F.2.5-11-3c. Sacramento River at Mallard Slough Salinity, Alt2woTUCPAIIVa minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct  | Nov  | Dec  | Jan  | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------------|------|------|------|------|------|--------|--------|--------|--------|--------|--------|-----|
| <b>10% Exceedance</b>                             | 523  | -335 | -269 | -203 | -79  | -1,227 | -1,955 | -2,588 | -3,925 | -2,539 | -1,287 | 25  |
| <b>20% Exceedance</b>                             | 11   | 156  | -150 | -747 | -299 | -608   | -1,435 | -265   | -223   | 49     | 76     | 17  |
| <b>30% Exceedance</b>                             | -5   | 53   | -36  | -574 | 77   | -85    | -533   | -264   | 143    | 28     | 165    | 219 |
| <b>40% Exceedance</b>                             | -176 | -153 | -166 | 65   | -40  | -97    | -403   | -386   | -167   | 72     | -282   | 132 |
| <b>50% Exceedance</b>                             | -100 | -167 | -245 | 145  | -32  | -8     | -239   | -216   | 97     | 55     | -35    | 674 |
| <b>60% Exceedance</b>                             | 31   | -106 | 152  | -64  | 4    | -5     | -112   | -118   | 41     | -133   | 119    | 32  |
| <b>70% Exceedance</b>                             | 11   | -314 | -49  | -5   | 1    | 0      | -47    | 36     | -35    | 54     | 110    | 161 |
| <b>80% Exceedance</b>                             | -17  | -179 | 52   | -1   | 0    | 3      | -5     | 1      | -4     | 17     | 170    | 131 |
| <b>90% Exceedance</b>                             | -53  | 36   | -44  | 0    | 0    | 0      | -1     | 32     | 92     | 27     | 129    | 139 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 80   | -160 | -70  | -75  | -4   | -187   | -560   | -532   | -323   | -280   | -168   | 127 |
| <b>Wet Water Years (28%)</b>                      | 18   | -21  | 9    | -11  | 1    | 2      | 23     | 118    | 42     | 49     | 180    | 98  |
| <b>Above Normal Years (14%)</b>                   | 19   | -224 | -55  | -22  | 2    | -4     | -134   | -207   | -61    | 13     | -3     | 273 |
| <b>Below Normal Years (18%)</b>                   | 51   | -277 | -165 | 45   | -24  | -173   | -465   | -167   | 7      | -42    | -221   | 132 |
| <b>Dry Water Years (24%)</b>                      | 49   | -109 | -134 | -391 | -152 | -260   | -495   | -390   | -48    | 106    | 105    | 174 |
| <b>Critical Water Years (16%)</b>                 | 340  | -299 | -20  | 107  | 227  | -583   | -2,158 | -2,580 | -1,976 | -1,956 | -1,269 | -25 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-11-4a. Sacramento River at Mallard Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,882 | 15,242 | 12,048 | 9,974 | 5,264 | 4,501 | 6,362 | 8,889 | 11,350 | 12,907 | 14,176 | 15,455 |
| 20% Exceedance                              | 15,024 | 14,194 | 11,089 | 8,410 | 3,522 | 2,733 | 4,275 | 4,788 | 6,915  | 8,978  | 11,895 | 14,656 |
| 30% Exceedance                              | 14,504 | 13,873 | 10,499 | 5,137 | 1,557 | 1,163 | 2,468 | 4,435 | 6,088  | 8,462  | 11,345 | 14,148 |
| 40% Exceedance                              | 14,023 | 12,765 | 9,702  | 2,909 | 994   | 879   | 1,639 | 3,774 | 5,693  | 8,070  | 10,822 | 13,750 |
| 50% Exceedance                              | 13,120 | 9,043  | 7,139  | 1,888 | 550   | 596   | 1,123 | 2,578 | 5,029  | 6,848  | 9,189  | 11,883 |
| 60% Exceedance                              | 5,168  | 8,568  | 4,015  | 1,015 | 291   | 316   | 700   | 1,814 | 4,723  | 5,465  | 7,386  | 5,632  |
| 70% Exceedance                              | 4,969  | 8,341  | 2,051  | 345   | 216   | 229   | 440   | 1,158 | 4,253  | 4,899  | 6,985  | 5,337  |
| 80% Exceedance                              | 4,896  | 7,347  | 1,127  | 214   | 196   | 196   | 268   | 489   | 2,950  | 4,604  | 6,684  | 5,205  |
| 90% Exceedance                              | 4,730  | 4,319  | 637    | 192   | 188   | 187   | 199   | 265   | 1,773  | 4,205  | 6,348  | 5,085  |
| Full Simulation Period Average <sup>a</sup> | 10,065 | 10,304 | 6,523  | 3,617 | 1,733 | 1,444 | 2,230 | 3,444 | 5,454  | 7,240  | 9,538  | 10,286 |
| Wet Water Years (28%)                       | 4,674  | 6,515  | 5,357  | 417   | 215   | 286   | 404   | 943   | 2,729  | 4,255  | 6,540  | 5,090  |
| Above Normal Years (14%)                    | 4,690  | 7,523  | 5,910  | 1,767 | 388   | 321   | 607   | 1,706 | 3,879  | 4,812  | 6,853  | 5,132  |
| Below Normal Years (18%)                    | 12,757 | 12,046 | 5,428  | 3,059 | 1,531 | 975   | 1,621 | 2,655 | 5,256  | 6,953  | 9,602  | 12,463 |
| Dry Water Years (24%)                       | 13,922 | 11,989 | 6,983  | 6,077 | 2,454 | 1,795 | 2,466 | 3,831 | 5,902  | 8,529  | 11,399 | 14,177 |
| Critical Water Years (16%)                  | 16,101 | 15,370 | 9,890  | 7,773 | 4,713 | 4,453 | 7,175 | 9,646 | 11,153 | 12,980 | 14,271 | 15,601 |

**Table F.2.5-11-4b. Sacramento River at Mallard Slough Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,860 | 15,142 | 12,030 | 9,584 | 4,851 | 4,550 | 5,599 | 8,495 | 11,545 | 13,117 | 14,199 | 15,522 |
| 20% Exceedance                              | 15,119 | 14,344 | 11,330 | 7,341 | 3,237 | 2,797 | 4,320 | 5,002 | 6,847  | 9,271  | 11,972 | 14,675 |
| 30% Exceedance                              | 14,509 | 13,863 | 10,559 | 5,306 | 1,424 | 1,178 | 2,512 | 4,794 | 6,351  | 8,369  | 11,512 | 14,358 |
| 40% Exceedance                              | 13,963 | 12,760 | 9,610  | 2,913 | 955   | 841   | 1,775 | 4,209 | 5,879  | 7,814  | 10,619 | 13,791 |
| 50% Exceedance                              | 12,728 | 8,853  | 6,906  | 1,789 | 519   | 575   | 1,208 | 3,215 | 5,114  | 6,761  | 9,295  | 12,561 |
| 60% Exceedance                              | 5,152  | 8,488  | 4,158  | 878   | 293   | 316   | 763   | 2,116 | 4,783  | 5,436  | 7,552  | 5,686  |
| 70% Exceedance                              | 4,977  | 8,061  | 2,009  | 344   | 216   | 229   | 449   | 1,290 | 4,387  | 5,058  | 7,166  | 5,517  |
| 80% Exceedance                              | 4,878  | 7,165  | 1,138  | 212   | 196   | 199   | 273   | 545   | 2,924  | 4,705  | 6,951  | 5,362  |
| 90% Exceedance                              | 4,672  | 4,351  | 627    | 192   | 188   | 186   | 199   | 296   | 1,778  | 4,246  | 6,707  | 5,255  |
| Full Simulation Period Average <sup>a</sup> | 10,106 | 10,182 | 6,506  | 3,437 | 1,624 | 1,451 | 2,272 | 3,638 | 5,491  | 7,258  | 9,605  | 10,438 |
| Wet Water Years (28%)                       | 4,692  | 6,491  | 5,369  | 384   | 215   | 290   | 450   | 1,095 | 2,752  | 4,349  | 6,769  | 5,203  |
| Above Normal Years (14%)                    | 4,695  | 7,306  | 5,974  | 1,752 | 386   | 320   | 677   | 2,009 | 3,880  | 4,931  | 7,024  | 5,427  |
| Below Normal Years (18%)                    | 12,819 | 11,675 | 5,328  | 3,081 | 1,467 | 951   | 1,721 | 3,123 | 5,380  | 6,855  | 9,430  | 12,678 |
| Dry Water Years (24%)                       | 14,007 | 12,004 | 7,047  | 5,788 | 2,231 | 1,771 | 2,562 | 4,074 | 6,051  | 8,591  | 11,507 | 14,357 |
| Critical Water Years (16%)                  | 16,129 | 15,243 | 9,706  | 7,125 | 4,437 | 4,556 | 7,040 | 9,440 | 10,981 | 12,837 | 14,168 | 15,584 |

**Table F.2.5-11-4c. Sacramento River at Mallard Slough Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|------|------|------|--------|------|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | -22  | -100 | -17  | -390   | -413 | 50  | -764 | -393 | 195  | 210  | 23   | 67  |
| 20% Exceedance                              | 95   | 151  | 241  | -1,070 | -285 | 65  | 44   | 213  | -67  | 294  | 77   | 18  |
| 30% Exceedance                              | 5    | -10  | 59   | 168    | -133 | 15  | 44   | 358  | 263  | -93  | 167  | 210 |
| 40% Exceedance                              | -60  | -5   | -92  | 4      | -39  | -38 | 137  | 435  | 186  | -256 | -204 | 40  |
| 50% Exceedance                              | -392 | -189 | -234 | -99    | -31  | -21 | 85   | 637  | 85   | -87  | 106  | 678 |
| 60% Exceedance                              | -16  | -80  | 144  | -137   | 2    | 0   | 63   | 302  | 59   | -29  | 166  | 55  |
| 70% Exceedance                              | 7    | -280 | -41  | -2     | 0    | 1   | 9    | 133  | 134  | 159  | 181  | 180 |
| 80% Exceedance                              | -18  | -182 | 10   | -2     | 0    | 3   | 5    | 56   | -27  | 101  | 266  | 157 |
| 90% Exceedance                              | -58  | 32   | -10  | 0      | 0    | 0   | 0    | 32   | 5    | 41   | 359  | 170 |
| Full Simulation Period Average <sup>a</sup> | 41   | -122 | -17  | -180   | -109 | 7   | 42   | 195  | 37   | 17   | 67   | 152 |
| Wet Water Years (28%)                       | 18   | -24  | 12   | -33    | 0    | 4   | 46   | 152  | 23   | 94   | 228  | 113 |
| Above Normal Years (14%)                    | 5    | -217 | 64   | -15    | -2   | -1  | 70   | 303  | 1    | 119  | 171  | 295 |
| Below Normal Years (18%)                    | 62   | -371 | -100 | 21     | -63  | -25 | 100  | 469  | 124  | -98  | -172 | 215 |
| Dry Water Years (24%)                       | 84   | 15   | 64   | -289   | -223 | -24 | 95   | 243  | 149  | 61   | 109  | 181 |
| Critical Water Years (16%)                  | 28   | -127 | -184 | -648   | -275 | 103 | -135 | -206 | -172 | -142 | -102 | -17 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-11-5a. Sacramento River at Mallard Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,882 | 15,242 | 12,048 | 9,974 | 5,264 | 4,501 | 6,362 | 8,889 | 11,350 | 12,907 | 14,176 | 15,455 |
| 20% Exceedance                              | 15,024 | 14,194 | 11,089 | 8,410 | 3,522 | 2,733 | 4,275 | 4,788 | 6,915  | 8,978  | 11,895 | 14,656 |
| 30% Exceedance                              | 14,504 | 13,873 | 10,499 | 5,137 | 1,557 | 1,163 | 2,468 | 4,435 | 6,088  | 8,462  | 11,345 | 14,148 |
| 40% Exceedance                              | 14,023 | 12,765 | 9,702  | 2,909 | 994   | 879   | 1,639 | 3,774 | 5,693  | 8,070  | 10,822 | 13,750 |
| 50% Exceedance                              | 13,120 | 9,043  | 7,139  | 1,888 | 550   | 596   | 1,123 | 2,578 | 5,029  | 6,848  | 9,189  | 11,883 |
| 60% Exceedance                              | 5,168  | 8,568  | 4,015  | 1,015 | 291   | 316   | 700   | 1,814 | 4,723  | 5,465  | 7,386  | 5,632  |
| 70% Exceedance                              | 4,969  | 8,341  | 2,051  | 345   | 216   | 229   | 440   | 1,158 | 4,253  | 4,899  | 6,985  | 5,337  |
| 80% Exceedance                              | 4,896  | 7,347  | 1,127  | 214   | 196   | 196   | 268   | 489   | 2,950  | 4,604  | 6,684  | 5,205  |
| 90% Exceedance                              | 4,730  | 4,319  | 637    | 192   | 188   | 187   | 199   | 265   | 1,773  | 4,205  | 6,348  | 5,085  |
| Full Simulation Period Average <sup>a</sup> | 10,065 | 10,304 | 6,523  | 3,617 | 1,733 | 1,444 | 2,230 | 3,444 | 5,454  | 7,240  | 9,538  | 10,286 |
| Wet Water Years (28%)                       | 4,674  | 6,515  | 5,357  | 417   | 215   | 286   | 404   | 943   | 2,729  | 4,255  | 6,540  | 5,090  |
| Above Normal Years (14%)                    | 4,690  | 7,523  | 5,910  | 1,767 | 388   | 321   | 607   | 1,706 | 3,879  | 4,812  | 6,853  | 5,132  |
| Below Normal Years (18%)                    | 12,757 | 12,046 | 5,428  | 3,059 | 1,531 | 975   | 1,621 | 2,655 | 5,256  | 6,953  | 9,602  | 12,463 |
| Dry Water Years (24%)                       | 13,922 | 11,989 | 6,983  | 6,077 | 2,454 | 1,795 | 2,466 | 3,831 | 5,902  | 8,529  | 11,399 | 14,177 |
| Critical Water Years (16%)                  | 16,101 | 15,370 | 9,890  | 7,773 | 4,713 | 4,453 | 7,175 | 9,646 | 11,153 | 12,980 | 14,271 | 15,601 |

**Table F.2.5-11-5b. Sacramento River at Mallard Slough Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 10,147 | 9,120 | 6,337 | 3,016 | 1,861 | 2,234 | 4,779 | 6,616 | 10,026 | 11,923 | 13,073 | 11,972 |
| 20% Exceedance                              | 8,428  | 6,966 | 4,317 | 2,160 | 1,242 | 1,204 | 3,067 | 5,591 | 9,169  | 10,940 | 12,086 | 10,483 |
| 30% Exceedance                              | 7,652  | 5,905 | 2,557 | 1,378 | 628   | 608   | 2,217 | 4,554 | 8,491  | 10,210 | 11,634 | 9,720  |
| 40% Exceedance                              | 6,561  | 5,115 | 1,494 | 724   | 425   | 440   | 1,510 | 2,935 | 7,063  | 9,235  | 10,480 | 8,846  |
| 50% Exceedance                              | 6,052  | 4,316 | 824   | 471   | 337   | 337   | 845   | 2,034 | 5,465  | 7,529  | 9,678  | 8,260  |
| 60% Exceedance                              | 5,244  | 3,529 | 530   | 309   | 257   | 274   | 496   | 1,303 | 4,367  | 6,695  | 8,793  | 7,429  |
| 70% Exceedance                              | 4,667  | 2,789 | 390   | 246   | 230   | 240   | 320   | 830   | 2,882  | 5,571  | 8,085  | 6,472  |
| 80% Exceedance                              | 4,127  | 2,103 | 280   | 218   | 211   | 222   | 254   | 381   | 1,531  | 4,334  | 7,054  | 5,531  |
| 90% Exceedance                              | 3,471  | 1,229 | 211   | 201   | 195   | 195   | 202   | 209   | 591    | 3,464  | 5,750  | 3,973  |
| Full Simulation Period Average <sup>a</sup> | 6,262  | 4,727 | 2,151 | 1,329 | 820   | 809   | 1,728 | 2,963 | 5,503  | 7,751  | 9,526  | 8,065  |
| Wet Water Years (28%)                       | 4,175  | 2,579 | 749   | 245   | 213   | 245   | 345   | 628   | 1,897  | 4,115  | 6,257  | 5,101  |
| Above Normal Years (14%)                    | 5,130  | 3,867 | 1,021 | 442   | 263   | 270   | 563   | 1,323 | 3,652  | 5,678  | 7,863  | 6,874  |
| Below Normal Years (18%)                    | 5,945  | 4,458 | 2,006 | 736   | 613   | 490   | 1,306 | 2,751 | 5,916  | 7,896  | 9,555  | 7,925  |
| Dry Water Years (24%)                       | 7,137  | 5,190 | 3,045 | 1,914 | 962   | 879   | 2,102 | 4,035 | 7,525  | 9,906  | 11,497 | 9,657  |
| Critical Water Years (16%)                  | 10,273 | 9,181 | 4,643 | 3,792 | 2,392 | 2,525 | 5,082 | 7,116 | 9,937  | 12,530 | 13,714 | 12,062 |

**Table F.2.5-11-5c. Sacramento River at Mallard Slough Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| 10% Exceedance                              | -5,736 | -6,122 | -5,710 | -6,958 | -3,403 | -2,266 | -1,583 | -2,272 | -1,324 | -984  | -1,103 | -3,483 |
| 20% Exceedance                              | -6,596 | -7,228 | -6,772 | -6,250 | -2,280 | -1,528 | -1,208 | 803    | 2,254  | 1,962 | 191    | -4,173 |
| 30% Exceedance                              | -6,852 | -7,968 | -7,943 | -3,759 | -929   | -555   | -251   | 119    | 2,403  | 1,748 | 289    | -4,428 |
| 40% Exceedance                              | -7,462 | -7,650 | -8,207 | -2,185 | -568   | -439   | -129   | -838   | 1,370  | 1,165 | -342   | -4,904 |
| 50% Exceedance                              | -7,068 | -4,727 | -6,315 | -1,417 | -213   | -259   | -278   | -544   | 436    | 681   | 489    | -3,623 |
| 60% Exceedance                              | 76     | -5,039 | -3,485 | -706   | -34    | -42    | -204   | -511   | -356   | 1,230 | 1,407  | 1,798  |
| 70% Exceedance                              | -302   | -5,551 | -1,661 | -99    | 14     | 11     | -120   | -328   | -1,371 | 672   | 1,100  | 1,135  |
| 80% Exceedance                              | -769   | -5,244 | -847   | 4      | 15     | 26     | -14    | -108   | -1,419 | -270  | 370    | 326    |
| 90% Exceedance                              | -1,259 | -3,090 | -426   | 9      | 7      | 8      | 3      | -56    | -1,182 | -741  | -598   | -1,112 |
| Full Simulation Period Average <sup>a</sup> | -3,803 | -5,577 | -4,372 | -2,288 | -913   | -635   | -502   | -480   | 49     | 510   | -12    | -2,221 |
| Wet Water Years (28%)                       | -499   | -3,937 | -4,609 | -172   | -2     | -41    | -59    | -315   | -832   | -140  | -283   | 11     |
| Above Normal Years (14%)                    | 440    | -3,657 | -4,889 | -1,325 | -126   | -52    | -44    | -382   | -228   | 865   | 1,010  | 1,742  |
| Below Normal Years (18%)                    | -6,812 | -7,588 | -3,422 | -2,323 | -918   | -486   | -316   | 96     | 659    | 943   | -47    | -4,537 |
| Dry Water Years (24%)                       | -6,785 | -6,799 | -3,938 | -4,163 | -1,493 | -916   | -364   | 204    | 1,624  | 1,377 | 98     | -4,519 |
| Critical Water Years (16%)                  | -5,828 | -6,189 | -5,247 | -3,981 | -2,321 | -1,929 | -2,093 | -2,530 | -1,216 | -449  | -557   | -3,539 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-11-6a. Sacramento River at Mallard Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,348 | 20,738 | 11,799 | 3,786 | 1,517 | 1,292 | 2,584 | 7,643 | 15,050 | 20,687 | 23,384 | 22,996 |
| 20% Exceedance                              | 19,983 | 15,953 | 7,360  | 2,358 | 930   | 670   | 1,276 | 4,840 | 12,430 | 19,228 | 22,866 | 22,053 |
| 30% Exceedance                              | 17,270 | 11,232 | 4,911  | 1,672 | 416   | 363   | 929   | 3,187 | 9,846  | 18,429 | 22,138 | 21,327 |
| 40% Exceedance                              | 13,866 | 8,896  | 3,279  | 730   | 345   | 305   | 578   | 2,287 | 8,238  | 16,251 | 21,448 | 20,254 |
| 50% Exceedance                              | 11,446 | 7,196  | 2,032  | 497   | 289   | 265   | 351   | 1,254 | 6,482  | 14,926 | 20,674 | 18,708 |
| 60% Exceedance                              | 8,580  | 5,967  | 1,024  | 334   | 243   | 237   | 274   | 735   | 4,484  | 12,571 | 19,426 | 15,897 |
| 70% Exceedance                              | 6,868  | 5,044  | 675    | 246   | 225   | 222   | 232   | 460   | 2,734  | 10,174 | 17,316 | 12,417 |
| 80% Exceedance                              | 5,884  | 2,723  | 391    | 219   | 207   | 210   | 214   | 263   | 1,241  | 7,603  | 13,326 | 10,585 |
| 90% Exceedance                              | 4,509  | 1,469  | 255    | 203   | 196   | 190   | 187   | 181   | 459    | 5,060  | 10,532 | 7,872  |
| Full Simulation Period Average <sup>a</sup> | 12,297 | 9,199  | 4,163  | 1,748 | 794   | 574   | 1,070 | 2,776 | 7,044  | 13,662 | 18,573 | 16,526 |
| Wet Water Years (28%)                       | 6,249  | 4,554  | 2,329  | 240   | 207   | 215   | 239   | 510   | 1,969  | 7,339  | 12,850 | 9,679  |
| Above Normal Years (14%)                    | 8,835  | 6,233  | 2,357  | 489   | 240   | 231   | 316   | 861   | 3,920  | 11,472 | 17,540 | 14,304 |
| Below Normal Years (18%)                    | 12,784 | 8,424  | 3,500  | 1,096 | 536   | 341   | 572   | 2,365 | 7,449  | 14,920 | 20,292 | 17,840 |
| Dry Water Years (24%)                       | 15,289 | 10,652 | 5,538  | 1,936 | 698   | 553   | 994   | 3,272 | 9,518  | 17,109 | 21,691 | 20,578 |
| Critical Water Years (16%)                  | 21,679 | 19,441 | 7,989  | 5,942 | 2,738 | 1,794 | 3,856 | 8,133 | 14,489 | 20,061 | 22,882 | 22,898 |

**Table F.2.5-11-6b. Sacramento River at Mallard Slough Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,412 | 14,595 | 12,119 | 9,943 | 4,852 | 3,508 | 5,008 | 6,587 | 8,066 | 10,297 | 12,978 | 15,454 |
| 20% Exceedance                              | 15,157 | 14,277 | 11,190 | 7,174 | 3,241 | 2,241 | 3,563 | 5,002 | 6,785 | 9,056  | 11,972 | 14,676 |
| 30% Exceedance                              | 14,514 | 13,878 | 10,464 | 4,508 | 1,611 | 1,151 | 2,440 | 4,794 | 6,334 | 8,329  | 11,518 | 14,362 |
| 40% Exceedance                              | 14,060 | 12,735 | 9,621  | 3,037 | 955   | 820   | 1,778 | 4,337 | 5,765 | 8,045  | 10,617 | 13,834 |
| 50% Exceedance                              | 12,816 | 8,853  | 6,953  | 1,857 | 519   | 575   | 1,208 | 3,216 | 5,114 | 6,758  | 9,294  | 12,621 |
| 60% Exceedance                              | 5,153  | 8,489  | 4,161  | 891   | 293   | 317   | 760   | 2,116 | 4,773 | 5,431  | 7,551  | 5,688  |
| 70% Exceedance                              | 4,976  | 8,062  | 2,010  | 344   | 216   | 229   | 450   | 1,291 | 4,387 | 5,058  | 7,154  | 5,512  |
| 80% Exceedance                              | 4,878  | 7,168  | 1,132  | 212   | 196   | 200   | 274   | 545   | 2,924 | 4,706  | 6,937  | 5,362  |
| 90% Exceedance                              | 4,671  | 4,352  | 628    | 192   | 188   | 186   | 199   | 296   | 1,794 | 4,254  | 6,716  | 5,256  |
| Full Simulation Period Average <sup>a</sup> | 10,163 | 10,111 | 6,482  | 3,505 | 1,643 | 1,348 | 1,992 | 3,355 | 5,269 | 6,993  | 9,438  | 10,457 |
| Wet Water Years (28%)                       | 4,692  | 6,490  | 5,373  | 384   | 215   | 290   | 450   | 1,095 | 2,753 | 4,349  | 6,768  | 5,202  |
| Above Normal Years (14%)                    | 4,696  | 7,308  | 5,972  | 1,757 | 389   | 322   | 678   | 2,010 | 3,882 | 4,929  | 7,024  | 5,428  |
| Below Normal Years (18%)                    | 12,872 | 11,678 | 5,291  | 3,139 | 1,484 | 958   | 1,721 | 3,124 | 5,383 | 6,874  | 9,485  | 12,765 |
| Dry Water Years (24%)                       | 14,008 | 12,014 | 6,981  | 5,707 | 2,226 | 1,771 | 2,562 | 4,077 | 6,053 | 8,591  | 11,512 | 14,361 |
| Critical Water Years (16%)                  | 16,441 | 14,750 | 9,690  | 7,603 | 4,543 | 3,898 | 5,287 | 7,665 | 9,580 | 11,160 | 13,060 | 15,601 |

**Table F.2.5-11-6c. Sacramento River at Mallard Slough Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| 10% Exceedance                              | -4,935 | -6,142 | 319   | 6,157 | 3,335 | 2,216 | 2,423 | -1,056 | -6,984 | -10,390 | -10,406 | -7,542  |
| 20% Exceedance                              | -4,826 | -1,677 | 3,830 | 4,817 | 2,311 | 1,572 | 2,287 | 162    | -5,644 | -10,172 | -10,894 | -7,376  |
| 30% Exceedance                              | -2,757 | 2,645  | 5,553 | 2,836 | 1,194 | 788   | 1,511 | 1,607  | -3,512 | -10,100 | -10,621 | -6,965  |
| 40% Exceedance                              | 194    | 3,839  | 6,342 | 2,307 | 610   | 514   | 1,200 | 2,049  | -2,472 | -8,206  | -10,831 | -6,420  |
| 50% Exceedance                              | 1,370  | 1,657  | 4,921 | 1,360 | 230   | 310   | 857   | 1,961  | -1,368 | -8,168  | -11,380 | -6,087  |
| 60% Exceedance                              | -3,427 | 2,521  | 3,137 | 556   | 50    | 80    | 487   | 1,381  | 289    | -7,139  | -11,875 | -10,209 |
| 70% Exceedance                              | -1,892 | 3,017  | 1,335 | 97    | -9    | 7     | 218   | 830    | 1,653  | -5,116  | -10,162 | -6,905  |
| 80% Exceedance                              | -1,006 | 4,445  | 740   | -7    | -11   | -10   | 60    | 282    | 1,683  | -2,897  | -6,389  | -5,223  |
| 90% Exceedance                              | 162    | 2,883  | 373   | -11   | -8    | -3    | 12    | 115    | 1,336  | -806    | -3,816  | -2,616  |
| Full Simulation Period Average <sup>a</sup> | -2,134 | 912    | 2,318 | 1,756 | 849   | 774   | 922   | 580    | -1,775 | -6,670  | -9,135  | -6,069  |
| Wet Water Years (28%)                       | -1,557 | 1,936  | 3,043 | 144   | 8     | 75    | 211   | 585    | 783    | -2,989  | -6,082  | -4,477  |
| Above Normal Years (14%)                    | -4,139 | 1,075  | 3,614 | 1,268 | 148   | 91    | 362   | 1,149  | -38    | -6,543  | -10,516 | -8,876  |
| Below Normal Years (18%)                    | 88     | 3,254  | 1,792 | 2,043 | 948   | 617   | 1,149 | 759    | -2,065 | -8,045  | -10,807 | -5,075  |
| Dry Water Years (24%)                       | -1,282 | 1,362  | 1,443 | 3,771 | 1,528 | 1,219 | 1,568 | 805    | -3,465 | -8,518  | -10,179 | -6,217  |
| Critical Water Years (16%)                  | -5,237 | -4,691 | 1,701 | 1,660 | 1,804 | 2,104 | 1,431 | -468   | -4,909 | -8,901  | -9,821  | -7,297  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-11-7a. Sacramento River at Mallard Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,348 | 20,738 | 11,799 | 3,786 | 1,517 | 1,292 | 2,584 | 7,643 | 15,050 | 20,687 | 23,384 | 22,996 |
| 20% Exceedance                              | 19,983 | 15,953 | 7,360  | 2,358 | 930   | 670   | 1,276 | 4,840 | 12,430 | 19,228 | 22,866 | 22,053 |
| 30% Exceedance                              | 17,270 | 11,232 | 4,911  | 1,672 | 416   | 363   | 929   | 3,187 | 9,846  | 18,429 | 22,138 | 21,327 |
| 40% Exceedance                              | 13,866 | 8,896  | 3,279  | 730   | 345   | 305   | 578   | 2,287 | 8,238  | 16,251 | 21,448 | 20,254 |
| 50% Exceedance                              | 11,446 | 7,196  | 2,032  | 497   | 289   | 265   | 351   | 1,254 | 6,482  | 14,926 | 20,674 | 18,708 |
| 60% Exceedance                              | 8,580  | 5,967  | 1,024  | 334   | 243   | 237   | 274   | 735   | 4,484  | 12,571 | 19,426 | 15,897 |
| 70% Exceedance                              | 6,868  | 5,044  | 675    | 246   | 225   | 222   | 232   | 460   | 2,734  | 10,174 | 17,316 | 12,417 |
| 80% Exceedance                              | 5,884  | 2,723  | 391    | 219   | 207   | 210   | 214   | 263   | 1,241  | 7,603  | 13,326 | 10,585 |
| 90% Exceedance                              | 4,509  | 1,469  | 255    | 203   | 196   | 190   | 187   | 181   | 459    | 5,060  | 10,532 | 7,872  |
| Full Simulation Period Average <sup>a</sup> | 12,297 | 9,199  | 4,163  | 1,748 | 794   | 574   | 1,070 | 2,776 | 7,044  | 13,662 | 18,573 | 16,526 |
| Wet Water Years (28%)                       | 6,249  | 4,554  | 2,329  | 240   | 207   | 215   | 239   | 510   | 1,969  | 7,339  | 12,850 | 9,679  |
| Above Normal Years (14%)                    | 8,835  | 6,233  | 2,357  | 489   | 240   | 231   | 316   | 861   | 3,920  | 11,472 | 17,540 | 14,304 |
| Below Normal Years (18%)                    | 12,784 | 8,424  | 3,500  | 1,096 | 536   | 341   | 572   | 2,365 | 7,449  | 14,920 | 20,292 | 17,840 |
| Dry Water Years (24%)                       | 15,289 | 10,652 | 5,538  | 1,936 | 698   | 553   | 994   | 3,272 | 9,518  | 17,109 | 21,691 | 20,578 |
| Critical Water Years (16%)                  | 21,679 | 19,441 | 7,989  | 5,942 | 2,738 | 1,794 | 3,856 | 8,133 | 14,489 | 20,061 | 22,882 | 22,898 |

**Table F.2.5-11-7b. Sacramento River at Mallard Slough Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,448 | 14,758 | 11,659 | 9,791 | 5,221 | 3,378 | 4,717 | 6,611 | 8,053 | 10,242 | 12,997 | 15,459 |
| 20% Exceedance                              | 15,149 | 14,262 | 11,144 | 7,276 | 3,216 | 2,117 | 3,070 | 4,975 | 6,985 | 9,057  | 11,999 | 14,701 |
| 30% Exceedance                              | 14,596 | 13,905 | 10,437 | 4,539 | 1,640 | 1,093 | 2,316 | 4,724 | 6,375 | 8,384  | 11,482 | 14,345 |
| 40% Exceedance                              | 13,816 | 12,519 | 9,638  | 3,024 | 954   | 793   | 1,521 | 3,908 | 5,715 | 8,094  | 10,597 | 13,864 |
| 50% Exceedance                              | 13,197 | 8,873  | 6,912  | 2,048 | 520   | 556   | 1,095 | 3,045 | 5,106 | 6,794  | 9,217  | 12,591 |
| 60% Exceedance                              | 5,199  | 8,522  | 4,175  | 910   | 295   | 307   | 680   | 2,089 | 4,805 | 5,464  | 7,528  | 5,664  |
| 70% Exceedance                              | 4,978  | 8,043  | 2,008  | 342   | 216   | 228   | 418   | 1,291 | 4,396 | 4,992  | 7,156  | 5,496  |
| 80% Exceedance                              | 4,875  | 7,165  | 1,158  | 212   | 196   | 200   | 274   | 538   | 2,918 | 4,621  | 6,902  | 5,342  |
| 90% Exceedance                              | 4,676  | 4,344  | 621    | 192   | 188   | 186   | 198   | 299   | 1,812 | 4,249  | 6,569  | 5,231  |
| Full Simulation Period Average <sup>a</sup> | 10,168 | 10,124 | 6,468  | 3,541 | 1,705 | 1,268 | 1,870 | 3,294 | 5,292 | 6,978  | 9,409  | 10,447 |
| Wet Water Years (28%)                       | 4,697  | 6,491  | 5,369  | 401   | 216   | 287   | 432   | 1,091 | 2,774 | 4,315  | 6,743  | 5,192  |
| Above Normal Years (14%)                    | 4,700  | 7,306  | 5,871  | 1,760 | 390   | 317   | 536   | 1,823 | 3,927 | 4,863  | 6,945  | 5,405  |
| Below Normal Years (18%)                    | 12,838 | 11,647 | 5,318  | 3,154 | 1,506 | 808   | 1,511 | 3,090 | 5,433 | 6,901  | 9,439  | 12,734 |
| Dry Water Years (24%)                       | 14,014 | 12,024 | 6,905  | 5,787 | 2,278 | 1,563 | 2,318 | 3,956 | 6,060 | 8,603  | 11,499 | 14,361 |
| Critical Water Years (16%)                  | 16,491 | 14,854 | 9,799  | 7,662 | 4,824 | 3,894 | 5,284 | 7,672 | 9,583 | 11,140 | 13,062 | 15,609 |

**Table F.2.5-11-7c. Sacramento River at Mallard Slough Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| 10% Exceedance                              | -4,900 | -5,980 | -141  | 6,005 | 3,703 | 2,086 | 2,132 | -1,033 | -6,996 | -10,445 | -10,386 | -7,538  |
| 20% Exceedance                              | -4,835 | -1,691 | 3,783 | 4,918 | 2,286 | 1,447 | 1,794 | 135    | -5,445 | -10,171 | -10,867 | -7,352  |
| 30% Exceedance                              | -2,674 | 2,673  | 5,526 | 2,866 | 1,224 | 729   | 1,387 | 1,536  | -3,471 | -10,045 | -10,657 | -6,982  |
| 40% Exceedance                              | -50    | 3,623  | 6,359 | 2,293 | 609   | 487   | 943   | 1,621  | -2,523 | -8,156  | -10,851 | -6,390  |
| 50% Exceedance                              | 1,751  | 1,677  | 4,880 | 1,551 | 231   | 290   | 744   | 1,791  | -1,376 | -8,133  | -11,457 | -6,117  |
| 60% Exceedance                              | -3,381 | 2,555  | 3,151 | 576   | 52    | 70    | 406   | 1,354  | 321    | -7,106  | -11,898 | -10,233 |
| 70% Exceedance                              | -1,890 | 2,999  | 1,333 | 96    | -8    | 6     | 186   | 830    | 1,662  | -5,182  | -10,160 | -6,921  |
| 80% Exceedance                              | -1,009 | 4,442  | 766   | -7    | -11   | -10   | 61    | 274    | 1,676  | -2,982  | -6,425  | -5,244  |
| 90% Exceedance                              | 167    | 2,875  | 366   | -11   | -8    | -3    | 11    | 118    | 1,354  | -811    | -3,963  | -2,641  |
| Full Simulation Period Average <sup>a</sup> | -2,130 | 924    | 2,305 | 1,793 | 911   | 695   | 800   | 518    | -1,751 | -6,684  | -9,164  | -6,080  |
| Wet Water Years (28%)                       | -1,552 | 1,937  | 3,040 | 161   | 9     | 71    | 193   | 581    | 805    | -3,024  | -6,107  | -4,487  |
| Above Normal Years (14%)                    | -4,136 | 1,073  | 3,514 | 1,271 | 150   | 86    | 220   | 962    | 7      | -6,609  | -10,595 | -8,899  |
| Below Normal Years (18%)                    | 53     | 3,223  | 1,818 | 2,058 | 970   | 467   | 939   | 725    | -2,016 | -8,019  | -10,853 | -5,106  |
| Dry Water Years (24%)                       | -1,276 | 1,372  | 1,367 | 3,851 | 1,580 | 1,010 | 1,324 | 684    | -3,458 | -8,506  | -10,192 | -6,217  |
| Critical Water Years (16%)                  | -5,188 | -4,588 | 1,810 | 1,720 | 2,085 | 2,100 | 1,428 | -461   | -4,906 | -8,921  | -9,820  | -7,289  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-11-8a. Sacramento River at Mallard Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 21,348 | 20,738 | 11,799 | 3,786 | 1,517 | 1,292 | 2,584 | 7,643 | 15,050 | 20,687 | 23,384 | 22,996 |
| <b>20% Exceedance</b>                             | 19,983 | 15,953 | 7,360  | 2,358 | 930   | 670   | 1,276 | 4,840 | 12,430 | 19,228 | 22,866 | 22,053 |
| <b>30% Exceedance</b>                             | 17,270 | 11,232 | 4,911  | 1,672 | 416   | 363   | 929   | 3,187 | 9,846  | 18,429 | 22,138 | 21,327 |
| <b>40% Exceedance</b>                             | 13,866 | 8,896  | 3,279  | 730   | 345   | 305   | 578   | 2,287 | 8,238  | 16,251 | 21,448 | 20,254 |
| <b>50% Exceedance</b>                             | 11,446 | 7,196  | 2,032  | 497   | 289   | 265   | 351   | 1,254 | 6,482  | 14,926 | 20,674 | 18,708 |
| <b>60% Exceedance</b>                             | 8,580  | 5,967  | 1,024  | 334   | 243   | 237   | 274   | 735   | 4,484  | 12,571 | 19,426 | 15,897 |
| <b>70% Exceedance</b>                             | 6,868  | 5,044  | 675    | 246   | 225   | 222   | 232   | 460   | 2,734  | 10,174 | 17,316 | 12,417 |
| <b>80% Exceedance</b>                             | 5,884  | 2,723  | 391    | 219   | 207   | 210   | 214   | 263   | 1,241  | 7,603  | 13,326 | 10,585 |
| <b>90% Exceedance</b>                             | 4,509  | 1,469  | 255    | 203   | 196   | 190   | 187   | 181   | 459    | 5,060  | 10,532 | 7,872  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 12,297 | 9,199  | 4,163  | 1,748 | 794   | 574   | 1,070 | 2,776 | 7,044  | 13,662 | 18,573 | 16,526 |
| <b>Wet Water Years (28%)</b>                      | 6,249  | 4,554  | 2,329  | 240   | 207   | 215   | 239   | 510   | 1,969  | 7,339  | 12,850 | 9,679  |
| <b>Above Normal Years (14%)</b>                   | 8,835  | 6,233  | 2,357  | 489   | 240   | 231   | 316   | 861   | 3,920  | 11,472 | 17,540 | 14,304 |
| <b>Below Normal Years (18%)</b>                   | 12,784 | 8,424  | 3,500  | 1,096 | 536   | 341   | 572   | 2,365 | 7,449  | 14,920 | 20,292 | 17,840 |
| <b>Dry Water Years (24%)</b>                      | 15,289 | 10,652 | 5,538  | 1,936 | 698   | 553   | 994   | 3,272 | 9,518  | 17,109 | 21,691 | 20,578 |
| <b>Critical Water Years (16%)</b>                 | 21,679 | 19,441 | 7,989  | 5,942 | 2,738 | 1,794 | 3,856 | 8,133 | 14,489 | 20,061 | 22,882 | 22,898 |

**Table F.2.5-11-8b. Sacramento River at Mallard Slough Salinity, Alt2woTUCPAIIVa, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 16,406 | 14,908 | 11,778 | 9,771 | 5,186 | 3,273 | 4,408 | 6,301 | 7,425 | 10,368 | 12,889 | 15,480 |
| <b>20% Exceedance</b>                             | 15,035 | 14,350 | 10,939 | 7,663 | 3,223 | 2,125 | 2,840 | 4,524 | 6,692 | 9,027  | 11,971 | 14,674 |
| <b>30% Exceedance</b>                             | 14,499 | 13,926 | 10,463 | 4,564 | 1,634 | 1,078 | 1,935 | 4,171 | 6,231 | 8,490  | 11,510 | 14,367 |
| <b>40% Exceedance</b>                             | 13,848 | 12,612 | 9,535  | 2,974 | 953   | 782   | 1,236 | 3,388 | 5,526 | 8,142  | 10,541 | 13,882 |
| <b>50% Exceedance</b>                             | 13,021 | 8,876  | 6,894  | 2,033 | 518   | 588   | 884   | 2,362 | 5,127 | 6,903  | 9,154  | 12,557 |
| <b>60% Exceedance</b>                             | 5,199  | 8,462  | 4,167  | 951   | 295   | 311   | 588   | 1,697 | 4,764 | 5,331  | 7,505  | 5,664  |
| <b>70% Exceedance</b>                             | 4,980  | 8,027  | 2,002  | 340   | 217   | 229   | 393   | 1,193 | 4,218 | 4,954  | 7,095  | 5,498  |
| <b>80% Exceedance</b>                             | 4,879  | 7,168  | 1,179  | 213   | 196   | 199   | 263   | 490   | 2,946 | 4,621  | 6,854  | 5,336  |
| <b>90% Exceedance</b>                             | 4,678  | 4,355  | 593    | 192   | 188   | 186   | 198   | 296   | 1,865 | 4,231  | 6,477  | 5,224  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 10,145 | 10,144 | 6,453  | 3,542 | 1,729 | 1,257 | 1,670 | 2,911 | 5,131 | 6,961  | 9,370  | 10,413 |
| <b>Wet Water Years (28%)</b>                      | 4,692  | 6,495  | 5,366  | 406   | 216   | 288   | 427   | 1,061 | 2,771 | 4,304  | 6,720  | 5,188  |
| <b>Above Normal Years (14%)</b>                   | 4,709  | 7,299  | 5,855  | 1,745 | 390   | 317   | 474   | 1,499 | 3,818 | 4,825  | 6,850  | 5,405  |
| <b>Below Normal Years (18%)</b>                   | 12,808 | 11,769 | 5,263  | 3,104 | 1,507 | 803   | 1,156 | 2,488 | 5,264 | 6,910  | 9,381  | 12,595 |
| <b>Dry Water Years (24%)</b>                      | 13,971 | 11,880 | 6,849  | 5,685 | 2,302 | 1,535 | 1,971 | 3,441 | 5,854 | 8,635  | 11,504 | 14,350 |
| <b>Critical Water Years (16%)</b>                 | 16,442 | 15,071 | 9,870  | 7,880 | 4,940 | 3,870 | 5,017 | 7,066 | 9,177 | 11,024 | 13,001 | 15,577 |

**Table F.2.5-11-8c. Sacramento River at Mallard Slough Salinity, Alt2woTUCPAIIVa minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| <b>10% Exceedance</b>                             | -4,942 | -5,830 | -21   | 5,985 | 3,668 | 1,982 | 1,823 | -1,342 | -7,625 | -10,319 | -10,495 | -7,516  |
| <b>20% Exceedance</b>                             | -4,948 | -1,604 | 3,578 | 5,305 | 2,294 | 1,455 | 1,564 | -316   | -5,738 | -10,201 | -10,896 | -7,379  |
| <b>30% Exceedance</b>                             | -2,771 | 2,693  | 5,552 | 2,891 | 1,218 | 714   | 1,006 | 984    | -3,615 | -9,939  | -10,628 | -6,960  |
| <b>40% Exceedance</b>                             | -19    | 3,716  | 6,256 | 2,244 | 608   | 477   | 658   | 1,101  | -2,712 | -8,109  | -10,907 | -6,371  |
| <b>50% Exceedance</b>                             | 1,575  | 1,680  | 4,862 | 1,536 | 229   | 323   | 532   | 1,108  | -1,355 | -8,024  | -11,520 | -6,151  |
| <b>60% Exceedance</b>                             | -3,381 | 2,495  | 3,142 | 617   | 52    | 74    | 314   | 962    | 280    | -7,239  | -11,921 | -10,233 |
| <b>70% Exceedance</b>                             | -1,888 | 2,982  | 1,327 | 94    | -8    | 7     | 161   | 733    | 1,484  | -5,220  | -10,221 | -6,919  |
| <b>80% Exceedance</b>                             | -1,005 | 4,445  | 788   | -6    | -11   | -10   | 50    | 227    | 1,705  | -2,982  | -6,472  | -5,249  |
| <b>90% Exceedance</b>                             | 169    | 2,886  | 338   | -11   | -8    | -3    | 11    | 116    | 1,407  | -829    | -4,055  | -2,648  |
| <b>Full Simulation Period Average<sup>a</sup></b> | -2,153 | 944    | 2,289 | 1,794 | 936   | 684   | 600   | 135    | -1,912 | -6,702  | -9,202  | -6,114  |
| <b>Wet Water Years (28%)</b>                      | -1,557 | 1,940  | 3,037 | 166   | 9     | 73    | 188   | 551    | 802    | -3,034  | -6,129  | -4,491  |
| <b>Above Normal Years (14%)</b>                   | -4,126 | 1,066  | 3,498 | 1,256 | 150   | 86    | 158   | 637    | -102   | -6,647  | -10,690 | -8,899  |
| <b>Below Normal Years (18%)</b>                   | 24     | 3,345  | 1,764 | 2,008 | 971   | 462   | 584   | 122    | -2,185 | -8,009  | -10,911 | -5,246  |
| <b>Dry Water Years (24%)</b>                      | -1,318 | 1,228  | 1,311 | 3,749 | 1,604 | 982   | 977   | 169    | -3,664 | -8,474  | -10,187 | -6,228  |
| <b>Critical Water Years (16%)</b>                 | -5,237 | -4,371 | 1,880 | 1,937 | 2,201 | 2,076 | 1,161 | -1,068 | -5,312 | -9,037  | -9,880  | -7,321  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-11-9a. Sacramento River at Mallard Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 21,348 | 20,738 | 11,799 | 3,786 | 1,517 | 1,292 | 2,584 | 7,643 | 15,050 | 20,687 | 23,384 | 22,996 |
| <b>20% Exceedance</b>                             | 19,983 | 15,953 | 7,360  | 2,358 | 930   | 670   | 1,276 | 4,840 | 12,430 | 19,228 | 22,866 | 22,053 |
| <b>30% Exceedance</b>                             | 17,270 | 11,232 | 4,911  | 1,672 | 416   | 363   | 929   | 3,187 | 9,846  | 18,429 | 22,138 | 21,327 |
| <b>40% Exceedance</b>                             | 13,866 | 8,896  | 3,279  | 730   | 345   | 305   | 578   | 2,287 | 8,238  | 16,251 | 21,448 | 20,254 |
| <b>50% Exceedance</b>                             | 11,446 | 7,196  | 2,032  | 497   | 289   | 265   | 351   | 1,254 | 6,482  | 14,926 | 20,674 | 18,708 |
| <b>60% Exceedance</b>                             | 8,580  | 5,967  | 1,024  | 334   | 243   | 237   | 274   | 735   | 4,484  | 12,571 | 19,426 | 15,897 |
| <b>70% Exceedance</b>                             | 6,868  | 5,044  | 675    | 246   | 225   | 222   | 232   | 460   | 2,734  | 10,174 | 17,316 | 12,417 |
| <b>80% Exceedance</b>                             | 5,884  | 2,723  | 391    | 219   | 207   | 210   | 214   | 263   | 1,241  | 7,603  | 13,326 | 10,585 |
| <b>90% Exceedance</b>                             | 4,509  | 1,469  | 255    | 203   | 196   | 190   | 187   | 181   | 459    | 5,060  | 10,532 | 7,872  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 12,297 | 9,199  | 4,163  | 1,748 | 794   | 574   | 1,070 | 2,776 | 7,044  | 13,662 | 18,573 | 16,526 |
| <b>Wet Water Years (28%)</b>                      | 6,249  | 4,554  | 2,329  | 240   | 207   | 215   | 239   | 510   | 1,969  | 7,339  | 12,850 | 9,679  |
| <b>Above Normal Years (14%)</b>                   | 8,835  | 6,233  | 2,357  | 489   | 240   | 231   | 316   | 861   | 3,920  | 11,472 | 17,540 | 14,304 |
| <b>Below Normal Years (18%)</b>                   | 12,784 | 8,424  | 3,500  | 1,096 | 536   | 341   | 572   | 2,365 | 7,449  | 14,920 | 20,292 | 17,840 |
| <b>Dry Water Years (24%)</b>                      | 15,289 | 10,652 | 5,538  | 1,936 | 698   | 553   | 994   | 3,272 | 9,518  | 17,109 | 21,691 | 20,578 |
| <b>Critical Water Years (16%)</b>                 | 21,679 | 19,441 | 7,989  | 5,942 | 2,738 | 1,794 | 3,856 | 8,133 | 14,489 | 20,061 | 22,882 | 22,898 |

**Table F.2.5-11-9b. Sacramento River at Mallard Slough Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 15,860 | 15,142 | 12,030 | 9,584 | 4,851 | 4,550 | 5,599 | 8,495 | 11,545 | 13,117 | 14,199 | 15,522 |
| <b>20% Exceedance</b>                             | 15,119 | 14,344 | 11,330 | 7,341 | 3,237 | 2,797 | 4,320 | 5,002 | 6,847  | 9,271  | 11,972 | 14,675 |
| <b>30% Exceedance</b>                             | 14,509 | 13,863 | 10,559 | 5,306 | 1,424 | 1,178 | 2,512 | 4,794 | 6,351  | 8,369  | 11,512 | 14,358 |
| <b>40% Exceedance</b>                             | 13,963 | 12,760 | 9,610  | 2,913 | 955   | 841   | 1,775 | 4,209 | 5,879  | 7,814  | 10,619 | 13,791 |
| <b>50% Exceedance</b>                             | 12,728 | 8,853  | 6,906  | 1,789 | 519   | 575   | 1,208 | 3,215 | 5,114  | 6,761  | 9,295  | 12,561 |
| <b>60% Exceedance</b>                             | 5,152  | 8,488  | 4,158  | 878   | 293   | 316   | 763   | 2,116 | 4,783  | 5,436  | 7,552  | 5,686  |
| <b>70% Exceedance</b>                             | 4,977  | 8,061  | 2,009  | 344   | 216   | 229   | 449   | 1,290 | 4,387  | 5,058  | 7,166  | 5,517  |
| <b>80% Exceedance</b>                             | 4,878  | 7,165  | 1,138  | 212   | 196   | 199   | 273   | 545   | 2,924  | 4,705  | 6,951  | 5,362  |
| <b>90% Exceedance</b>                             | 4,672  | 4,351  | 627    | 192   | 188   | 186   | 199   | 296   | 1,778  | 4,246  | 6,707  | 5,255  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 10,106 | 10,182 | 6,506  | 3,437 | 1,624 | 1,451 | 2,272 | 3,638 | 5,491  | 7,258  | 9,605  | 10,438 |
| <b>Wet Water Years (28%)</b>                      | 4,692  | 6,491  | 5,369  | 384   | 215   | 290   | 450   | 1,095 | 2,752  | 4,349  | 6,769  | 5,203  |
| <b>Above Normal Years (14%)</b>                   | 4,695  | 7,306  | 5,974  | 1,752 | 386   | 320   | 677   | 2,009 | 3,880  | 4,931  | 7,024  | 5,427  |
| <b>Below Normal Years (18%)</b>                   | 12,819 | 11,675 | 5,328  | 3,081 | 1,467 | 951   | 1,721 | 3,123 | 5,380  | 6,855  | 9,430  | 12,678 |
| <b>Dry Water Years (24%)</b>                      | 14,007 | 12,004 | 7,047  | 5,788 | 2,231 | 1,771 | 2,562 | 4,074 | 6,051  | 8,591  | 11,507 | 14,357 |
| <b>Critical Water Years (16%)</b>                 | 16,129 | 15,243 | 9,706  | 7,125 | 4,437 | 4,556 | 7,040 | 9,440 | 10,981 | 12,837 | 14,168 | 15,584 |

**Table F.2.5-11-9c. Sacramento River at Mallard Slough Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| <b>10% Exceedance</b>                             | -5,488 | -5,596 | 231   | 5,798 | 3,334 | 3,259 | 3,014 | 852   | -3,505 | -7,570  | -9,185  | -7,474  |
| <b>20% Exceedance</b>                             | -4,865 | -1,609 | 3,970 | 4,983 | 2,307 | 2,128 | 3,044 | 162   | -5,582 | -9,957  | -10,894 | -7,378  |
| <b>30% Exceedance</b>                             | -2,761 | 2,630  | 5,648 | 3,633 | 1,008 | 815   | 1,584 | 1,607 | -3,495 | -10,059 | -10,626 | -6,969  |
| <b>40% Exceedance</b>                             | 96     | 3,864  | 6,331 | 2,183 | 610   | 536   | 1,198 | 1,921 | -2,359 | -8,437  | -10,829 | -6,463  |
| <b>50% Exceedance</b>                             | 1,282  | 1,657  | 4,874 | 1,292 | 230   | 310   | 857   | 1,961 | -1,368 | -8,165  | -11,379 | -6,147  |
| <b>60% Exceedance</b>                             | -3,428 | 2,521  | 3,134 | 544   | 50    | 78    | 489   | 1,381 | 298    | -7,135  | -11,874 | -10,211 |
| <b>70% Exceedance</b>                             | -1,891 | 3,016  | 1,335 | 97    | -9    | 8     | 217   | 830   | 1,653  | -5,116  | -10,150 | -6,901  |
| <b>80% Exceedance</b>                             | -1,006 | 4,442  | 746   | -7    | -11   | -10   | 60    | 281   | 1,682  | -2,897  | -6,376  | -5,223  |
| <b>90% Exceedance</b>                             | 163    | 2,882  | 372   | -11   | -8    | -3    | 12    | 115   | 1,320  | -814    | -3,825  | -2,617  |
| <b>Full Simulation Period Average<sup>a</sup></b> | -2,191 | 983    | 2,342 | 1,688 | 830   | 878   | 1,202 | 863   | -1,552 | -6,405  | -8,968  | -6,088  |
| <b>Wet Water Years (28%)</b>                      | -1,557 | 1,937  | 3,040 | 144   | 8     | 75    | 211   | 585   | 783    | -2,990  | -6,081  | -4,476  |
| <b>Above Normal Years (14%)</b>                   | -4,140 | 1,074  | 3,616 | 1,263 | 146   | 89    | 362   | 1,148 | -40    | -6,541  | -10,516 | -8,876  |
| <b>Below Normal Years (18%)</b>                   | 35     | 3,251  | 1,828 | 1,985 | 932   | 610   | 1,149 | 758   | -2,068 | -8,065  | -10,862 | -5,162  |
| <b>Dry Water Years (24%)</b>                      | -1,282 | 1,352  | 1,509 | 3,852 | 1,533 | 1,219 | 1,568 | 802   | -3,467 | -8,518  | -10,183 | -6,221  |
| <b>Critical Water Years (16%)</b>                 | -5,549 | -4,198 | 1,716 | 1,183 | 1,699 | 2,762 | 3,184 | 1,307 | -3,508 | -7,223  | -8,713  | -7,313  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-11-10a. Sacramento River at Mallard Slough Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 21,348 | 20,738 | 11,799 | 3,786 | 1,517 | 1,292 | 2,584 | 7,643 | 15,050 | 20,687 | 23,384 | 22,996 |
| <b>20% Exceedance</b>                             | 19,983 | 15,953 | 7,360  | 2,358 | 930   | 670   | 1,276 | 4,840 | 12,430 | 19,228 | 22,866 | 22,053 |
| <b>30% Exceedance</b>                             | 17,270 | 11,232 | 4,911  | 1,672 | 416   | 363   | 929   | 3,187 | 9,846  | 18,429 | 22,138 | 21,327 |
| <b>40% Exceedance</b>                             | 13,866 | 8,896  | 3,279  | 730   | 345   | 305   | 578   | 2,287 | 8,238  | 16,251 | 21,448 | 20,254 |
| <b>50% Exceedance</b>                             | 11,446 | 7,196  | 2,032  | 497   | 289   | 265   | 351   | 1,254 | 6,482  | 14,926 | 20,674 | 18,708 |
| <b>60% Exceedance</b>                             | 8,580  | 5,967  | 1,024  | 334   | 243   | 237   | 274   | 735   | 4,484  | 12,571 | 19,426 | 15,897 |
| <b>70% Exceedance</b>                             | 6,868  | 5,044  | 675    | 246   | 225   | 222   | 232   | 460   | 2,734  | 10,174 | 17,316 | 12,417 |
| <b>80% Exceedance</b>                             | 5,884  | 2,723  | 391    | 219   | 207   | 210   | 214   | 263   | 1,241  | 7,603  | 13,326 | 10,585 |
| <b>90% Exceedance</b>                             | 4,509  | 1,469  | 255    | 203   | 196   | 190   | 187   | 181   | 459    | 5,060  | 10,532 | 7,872  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 12,297 | 9,199  | 4,163  | 1,748 | 794   | 574   | 1,070 | 2,776 | 7,044  | 13,662 | 18,573 | 16,526 |
| <b>Wet Water Years (28%)</b>                      | 6,249  | 4,554  | 2,329  | 240   | 207   | 215   | 239   | 510   | 1,969  | 7,339  | 12,850 | 9,679  |
| <b>Above Normal Years (14%)</b>                   | 8,835  | 6,233  | 2,357  | 489   | 240   | 231   | 316   | 861   | 3,920  | 11,472 | 17,540 | 14,304 |
| <b>Below Normal Years (18%)</b>                   | 12,784 | 8,424  | 3,500  | 1,096 | 536   | 341   | 572   | 2,365 | 7,449  | 14,920 | 20,292 | 17,840 |
| <b>Dry Water Years (24%)</b>                      | 15,289 | 10,652 | 5,538  | 1,936 | 698   | 553   | 994   | 3,272 | 9,518  | 17,109 | 21,691 | 20,578 |
| <b>Critical Water Years (16%)</b>                 | 21,679 | 19,441 | 7,989  | 5,942 | 2,738 | 1,794 | 3,856 | 8,133 | 14,489 | 20,061 | 22,882 | 22,898 |

**Table F.2.5-11-10b. Sacramento River at Mallard Slough Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 15,882 | 15,242 | 12,048 | 9,974 | 5,264 | 4,501 | 6,362 | 8,889 | 11,350 | 12,907 | 14,176 | 15,455 |
| <b>20% Exceedance</b>                             | 15,024 | 14,194 | 11,089 | 8,410 | 3,522 | 2,733 | 4,275 | 4,788 | 6,915  | 8,978  | 11,895 | 14,656 |
| <b>30% Exceedance</b>                             | 14,504 | 13,873 | 10,499 | 5,137 | 1,557 | 1,163 | 2,468 | 4,435 | 6,088  | 8,462  | 11,345 | 14,148 |
| <b>40% Exceedance</b>                             | 14,023 | 12,765 | 9,702  | 2,909 | 994   | 879   | 1,639 | 3,774 | 5,693  | 8,070  | 10,822 | 13,750 |
| <b>50% Exceedance</b>                             | 13,120 | 9,043  | 7,139  | 1,888 | 550   | 596   | 1,123 | 2,578 | 5,029  | 6,848  | 9,189  | 11,883 |
| <b>60% Exceedance</b>                             | 5,168  | 8,568  | 4,015  | 1,015 | 291   | 316   | 700   | 1,814 | 4,723  | 5,465  | 7,386  | 5,632  |
| <b>70% Exceedance</b>                             | 4,969  | 8,341  | 2,051  | 345   | 216   | 229   | 440   | 1,158 | 4,253  | 4,899  | 6,985  | 5,337  |
| <b>80% Exceedance</b>                             | 4,896  | 7,347  | 1,127  | 214   | 196   | 196   | 268   | 489   | 2,950  | 4,604  | 6,684  | 5,205  |
| <b>90% Exceedance</b>                             | 4,730  | 4,319  | 637    | 192   | 188   | 187   | 199   | 265   | 1,773  | 4,205  | 6,348  | 5,085  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 10,065 | 10,304 | 6,523  | 3,617 | 1,733 | 1,444 | 2,230 | 3,444 | 5,454  | 7,240  | 9,538  | 10,286 |
| <b>Wet Water Years (28%)</b>                      | 4,674  | 6,515  | 5,357  | 417   | 215   | 286   | 404   | 943   | 2,729  | 4,255  | 6,540  | 5,090  |
| <b>Above Normal Years (14%)</b>                   | 4,690  | 7,523  | 5,910  | 1,767 | 388   | 321   | 607   | 1,706 | 3,879  | 4,812  | 6,853  | 5,132  |
| <b>Below Normal Years (18%)</b>                   | 12,757 | 12,046 | 5,428  | 3,059 | 1,531 | 975   | 1,621 | 2,655 | 5,256  | 6,953  | 9,602  | 12,463 |
| <b>Dry Water Years (24%)</b>                      | 13,922 | 11,989 | 6,983  | 6,077 | 2,454 | 1,795 | 2,466 | 3,831 | 5,902  | 8,529  | 11,399 | 14,177 |
| <b>Critical Water Years (16%)</b>                 | 16,101 | 15,370 | 9,890  | 7,773 | 4,713 | 4,453 | 7,175 | 9,646 | 11,153 | 12,980 | 14,271 | 15,601 |

**Table F.2.5-11-10c. Sacramento River at Mallard Slough Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| <b>10% Exceedance</b>                             | -5,466 | -5,495 | 248   | 6,188 | 3,747 | 3,209 | 3,778 | 1,245 | -3,700 | -7,780  | -9,208  | -7,541  |
| <b>20% Exceedance</b>                             | -4,960 | -1,760 | 3,728 | 6,052 | 2,592 | 2,063 | 2,999 | -51   | -5,515 | -10,250 | -10,971 | -7,396  |
| <b>30% Exceedance</b>                             | -2,766 | 2,640  | 5,588 | 3,465 | 1,141 | 800   | 1,539 | 1,248 | -3,758 | -9,967  | -10,793 | -7,179  |
| <b>40% Exceedance</b>                             | 157    | 3,869  | 6,423 | 2,179 | 649   | 573   | 1,061 | 1,486 | -2,545 | -8,181  | -10,626 | -6,503  |
| <b>50% Exceedance</b>                             | 1,674  | 1,847  | 5,107 | 1,391 | 261   | 331   | 772   | 1,324 | -1,453 | -8,078  | -11,485 | -6,825  |
| <b>60% Exceedance</b>                             | -3,412 | 2,601  | 2,990 | 681   | 48    | 79    | 426   | 1,080 | 239    | -7,106  | -12,040 | -10,265 |
| <b>70% Exceedance</b>                             | -1,899 | 3,296  | 1,376 | 99    | -9    | 7     | 208   | 697   | 1,519  | -5,275  | -10,331 | -7,081  |
| <b>80% Exceedance</b>                             | -988   | 4,624  | 736   | -5    | -11   | -13   | 54    | 226   | 1,709  | -2,999  | -6,642  | -5,381  |
| <b>90% Exceedance</b>                             | 222    | 2,850  | 382   | -11   | -8    | -3    | 12    | 84    | 1,314  | -856    | -4,184  | -2,787  |
| <b>Full Simulation Period Average<sup>a</sup></b> | -2,232 | 1,105  | 2,360 | 1,869 | 940   | 870   | 1,160 | 668   | -1,589 | -6,422  | -9,035  | -6,241  |
| <b>Wet Water Years (28%)</b>                      | -1,575 | 1,961  | 3,028 | 177   | 8     | 71    | 165   | 433   | 760    | -3,084  | -6,309  | -4,589  |
| <b>Above Normal Years (14%)</b>                   | -4,145 | 1,291  | 3,553 | 1,278 | 148   | 90    | 292   | 845   | -40    | -6,660  | -10,687 | -9,172  |
| <b>Below Normal Years (18%)</b>                   | -27    | 3,622  | 1,928 | 1,963 | 995   | 634   | 1,050 | 289   | -2,192 | -7,967  | -10,690 | -5,377  |
| <b>Dry Water Years (24%)</b>                      | -1,367 | 1,337  | 1,445 | 4,141 | 1,756 | 1,242 | 1,473 | 559   | -3,617 | -8,580  | -10,292 | -6,401  |
| <b>Critical Water Years (16%)</b>                 | -5,577 | -4,071 | 1,900 | 1,831 | 1,974 | 2,659 | 3,319 | 1,513 | -3,336 | -7,081  | -8,611  | -7,296  |

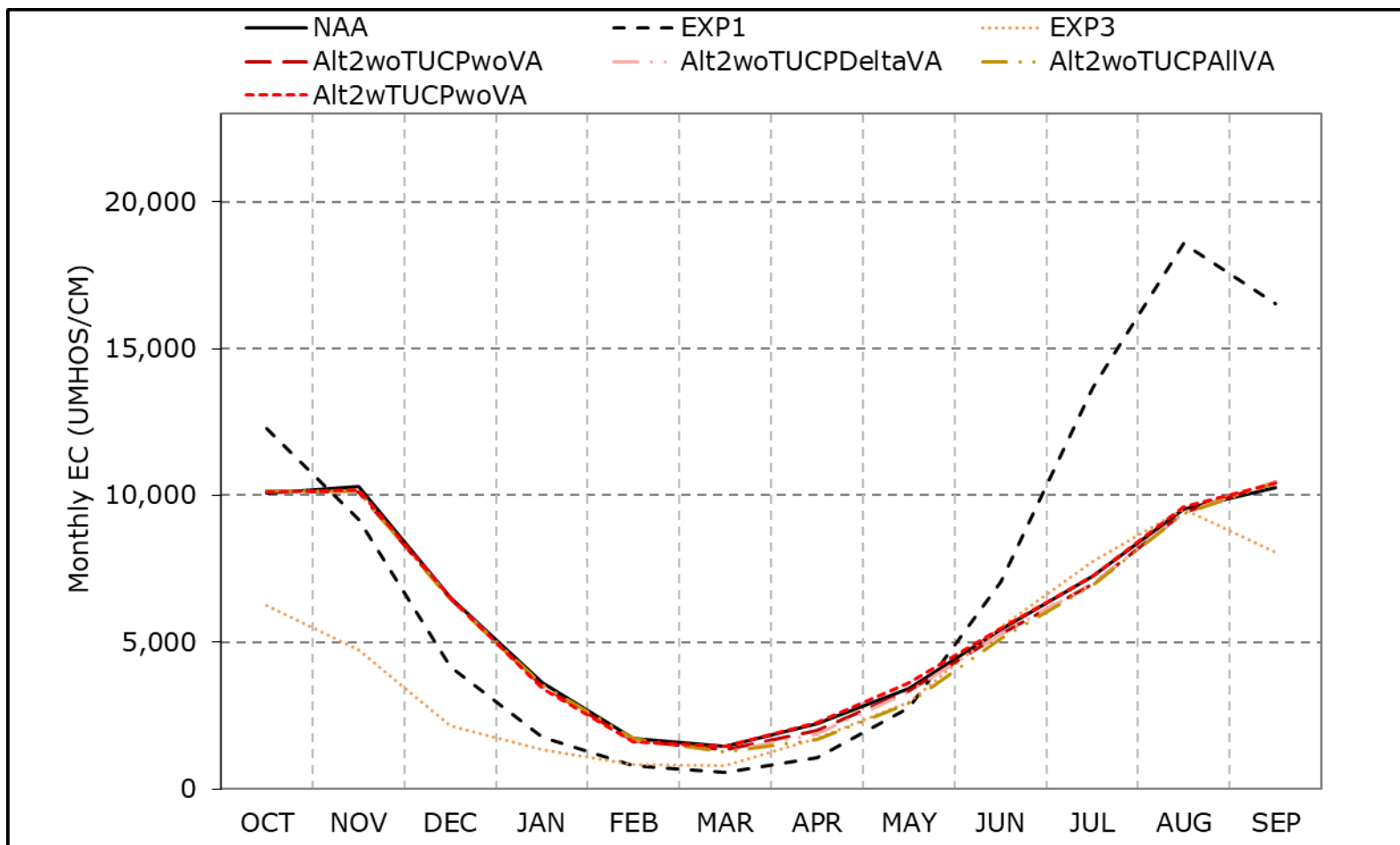
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-11-1. Sacramento River at Mallard Slough Salinity, Long-Term Average EC**

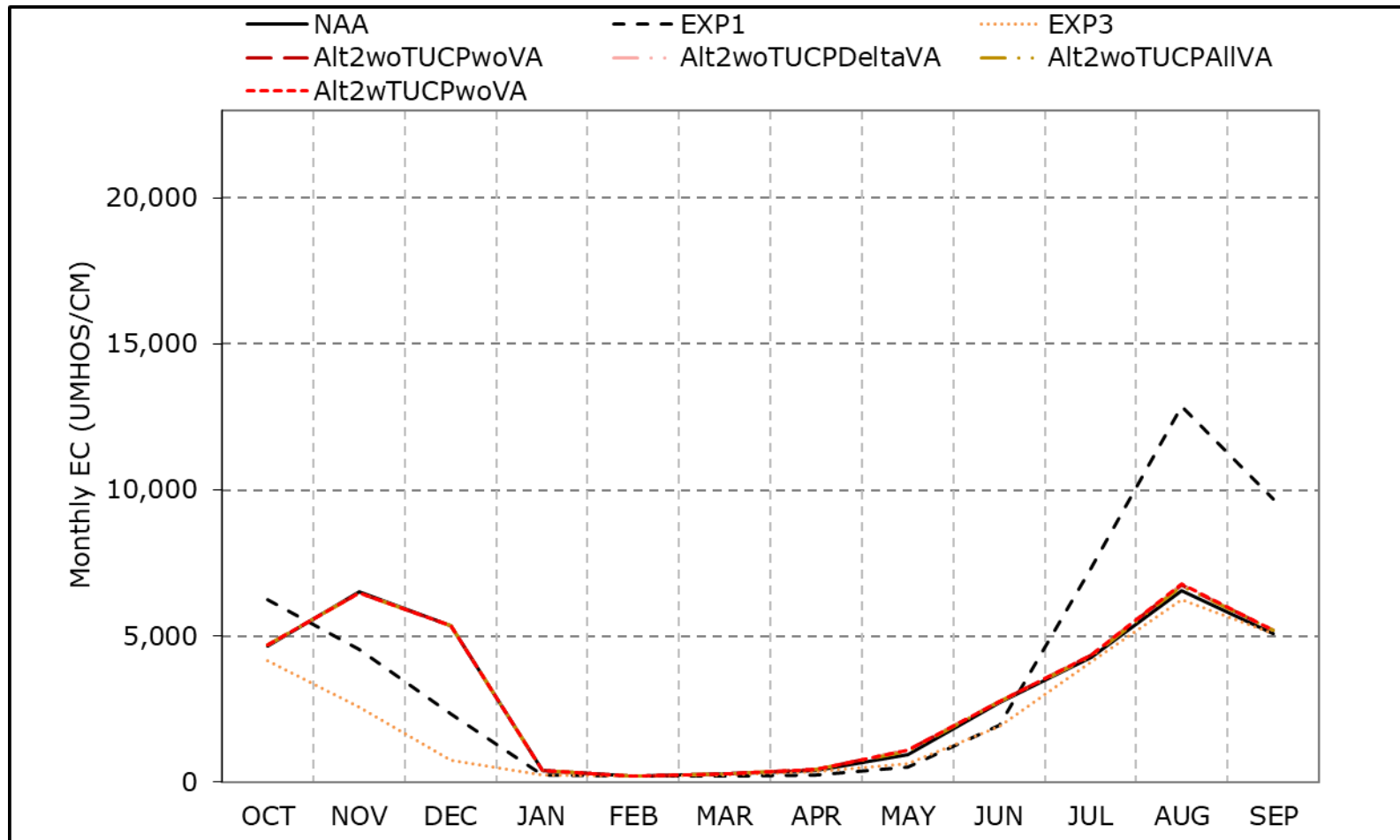


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-2. Sacramento River at Mallard Slough Salinity, Wet Year Average EC**

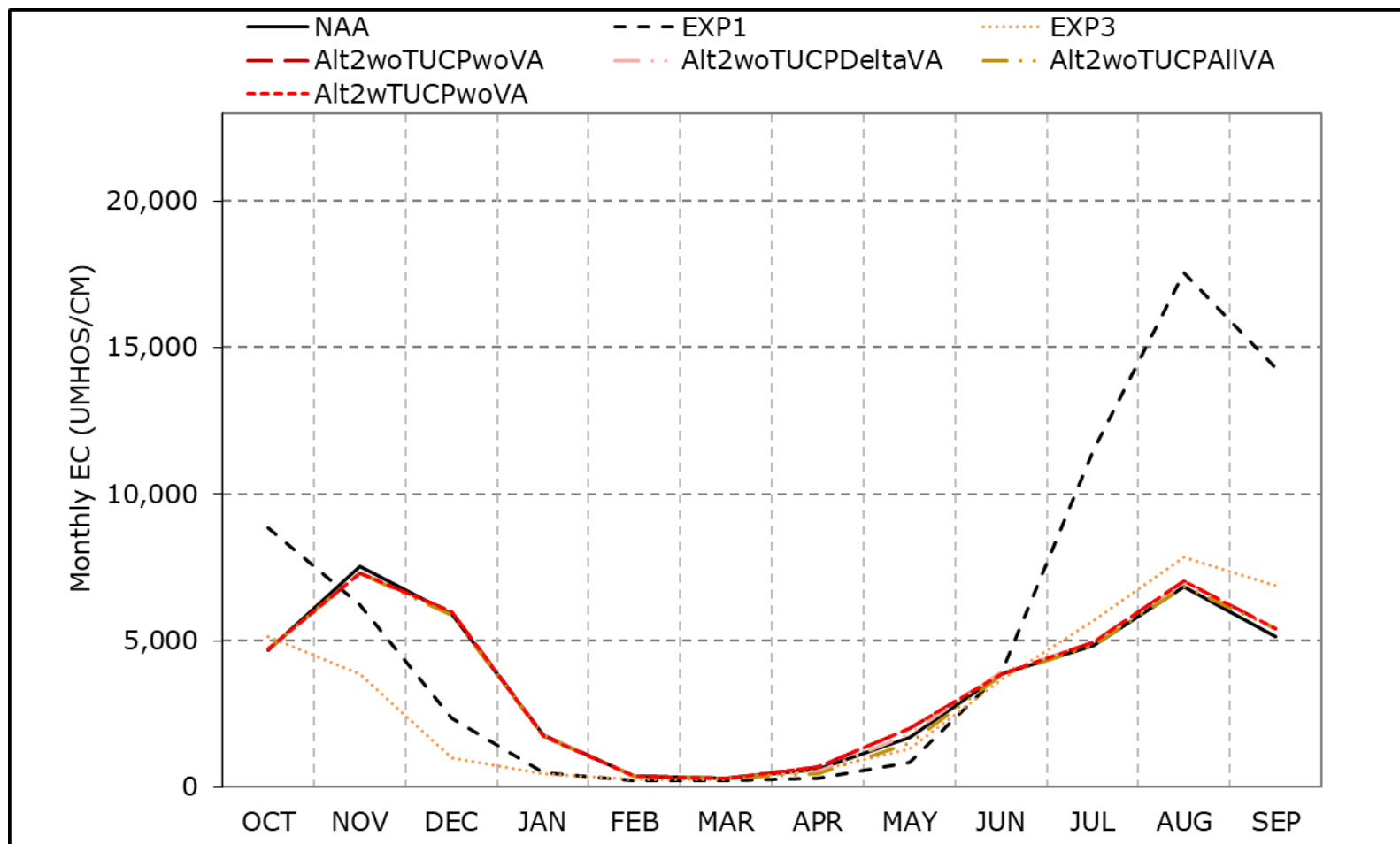


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-3. Sacramento River at Mallard Slough Salinity, Above Normal Year Average EC**

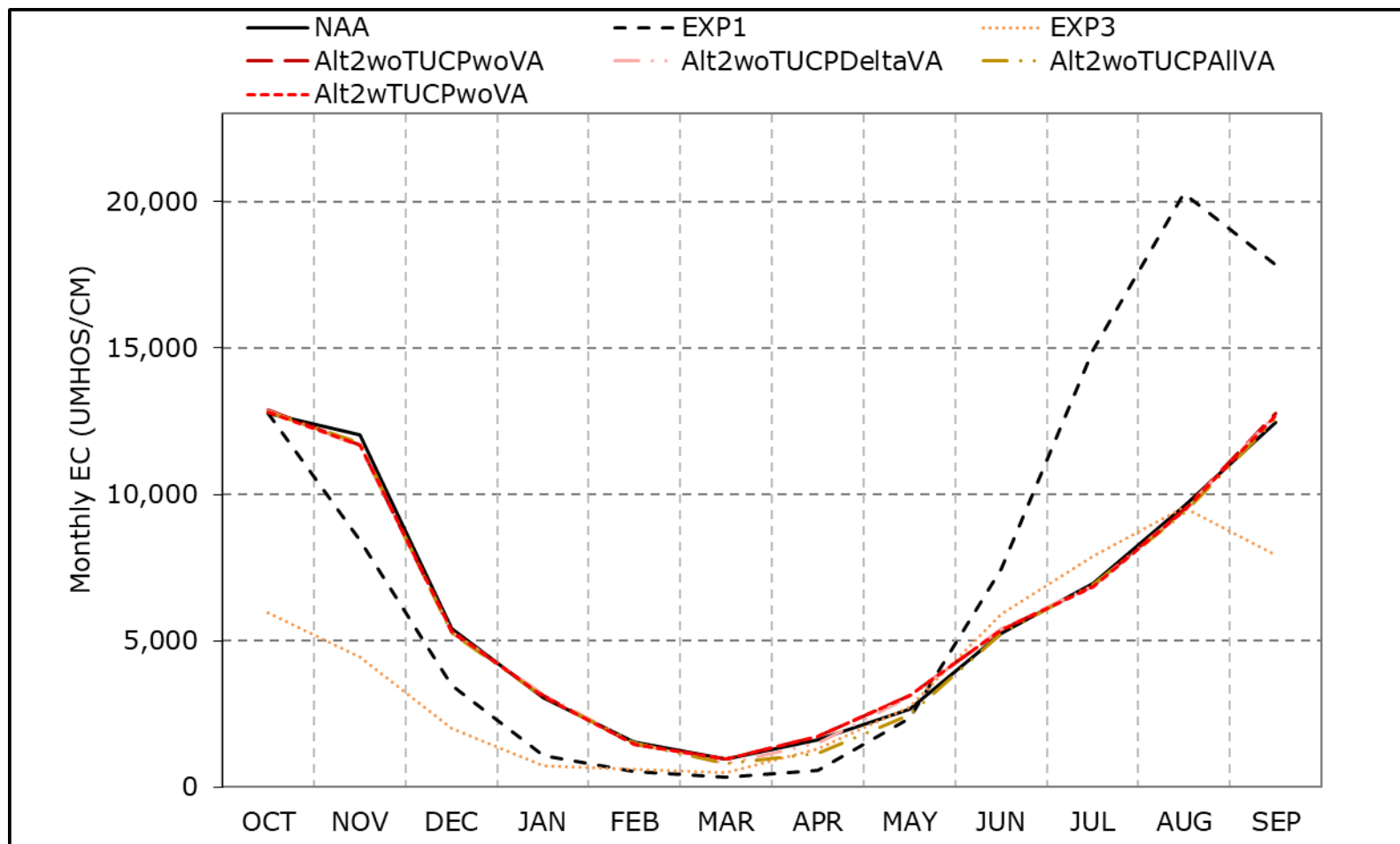


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-4. Sacramento River at Mallard Slough Salinity, Below Normal Year Average EC**



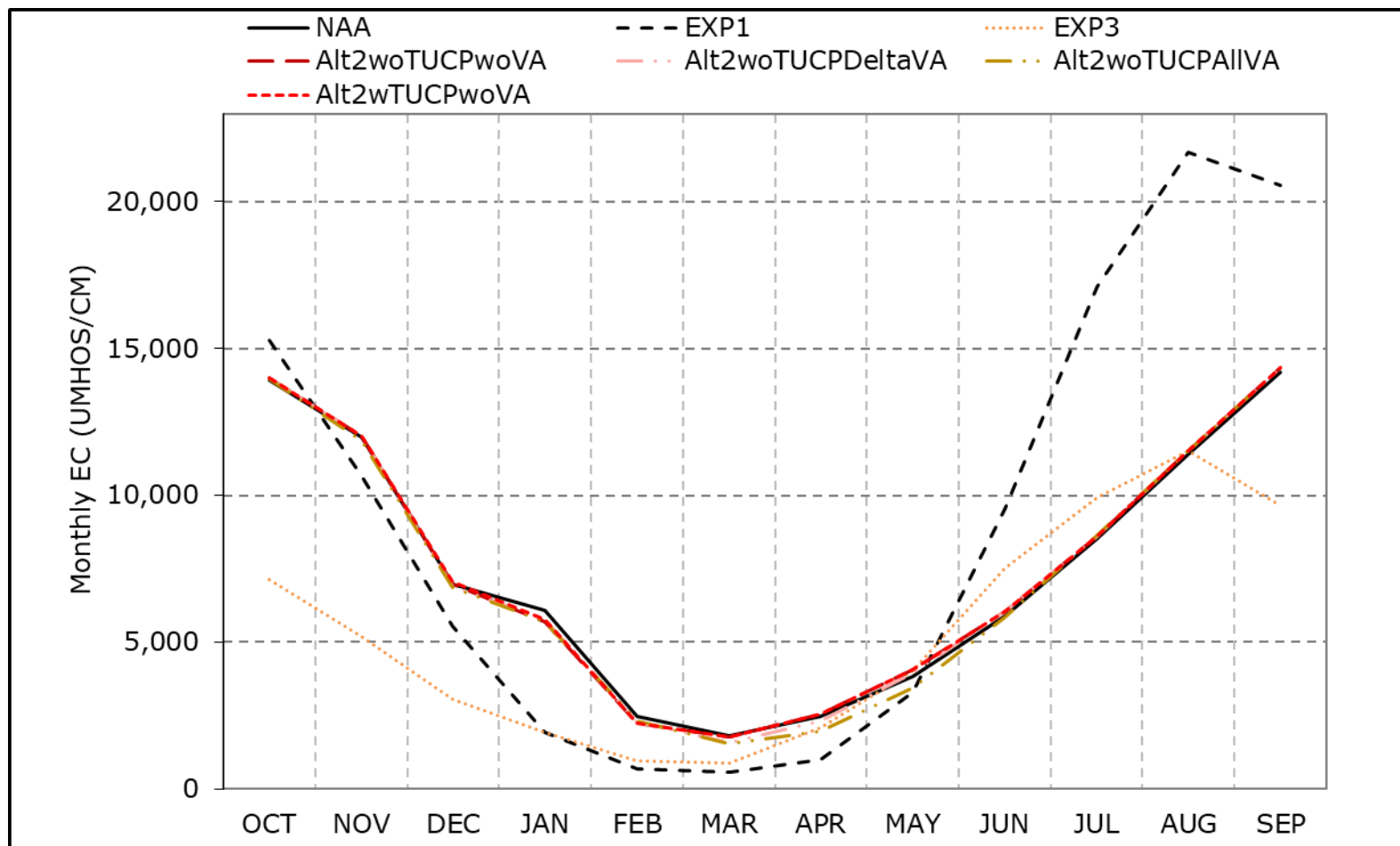
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-11-5. Sacramento River at Mallard Slough Salinity, Dry Year Average EC**

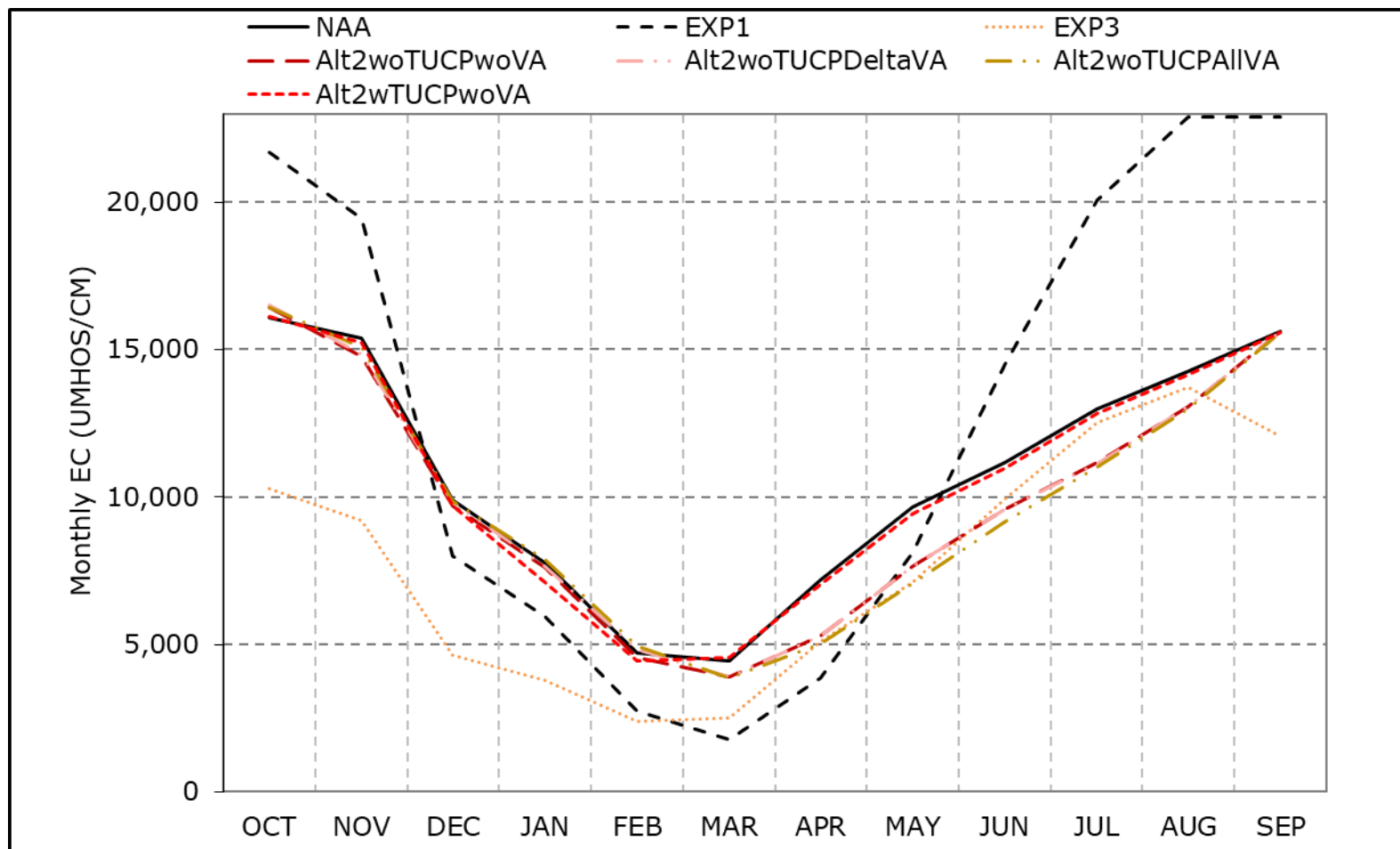


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-6. Sacramento River at Mallard Slough Salinity, Critical Year Average EC**

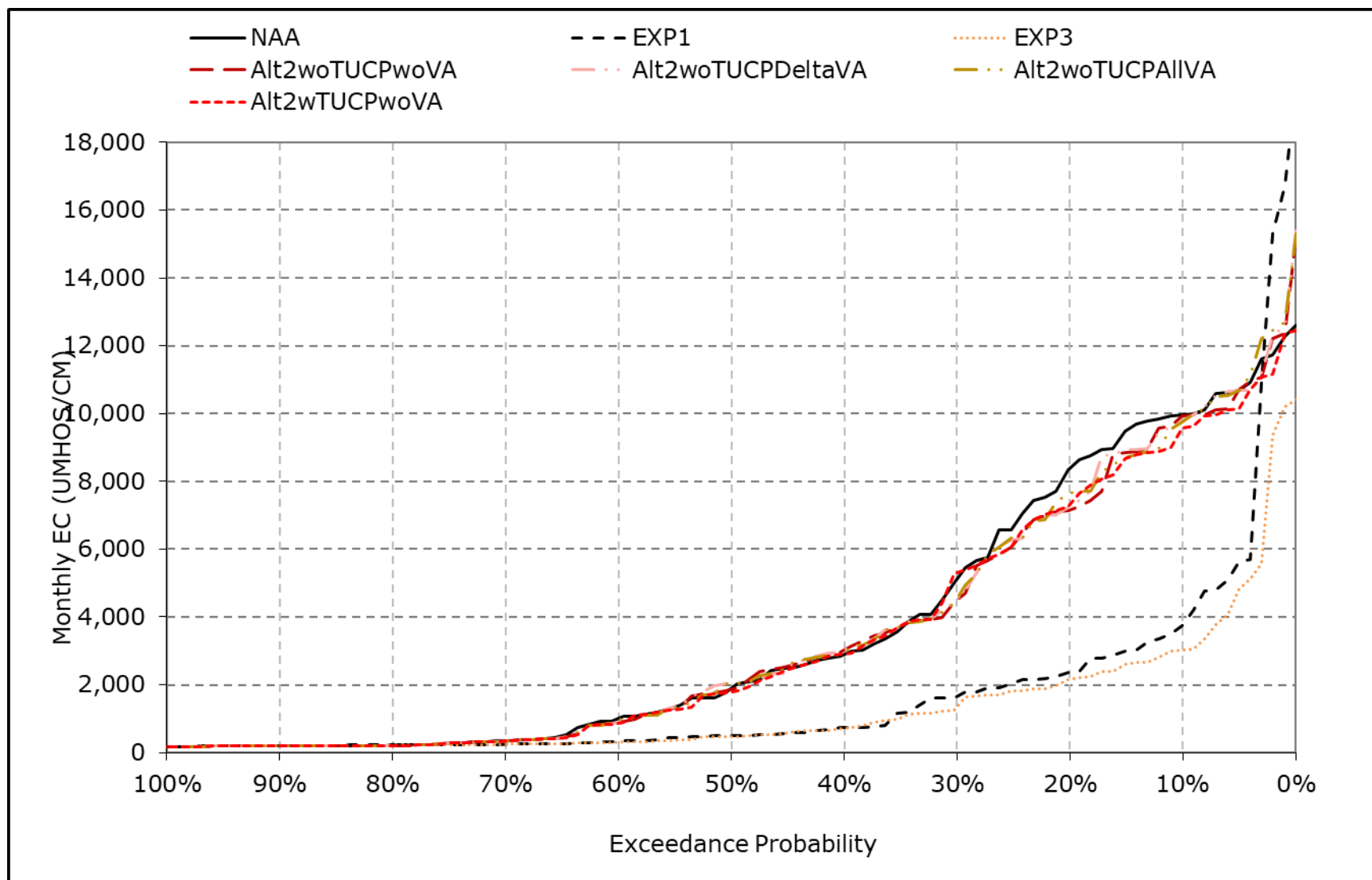


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

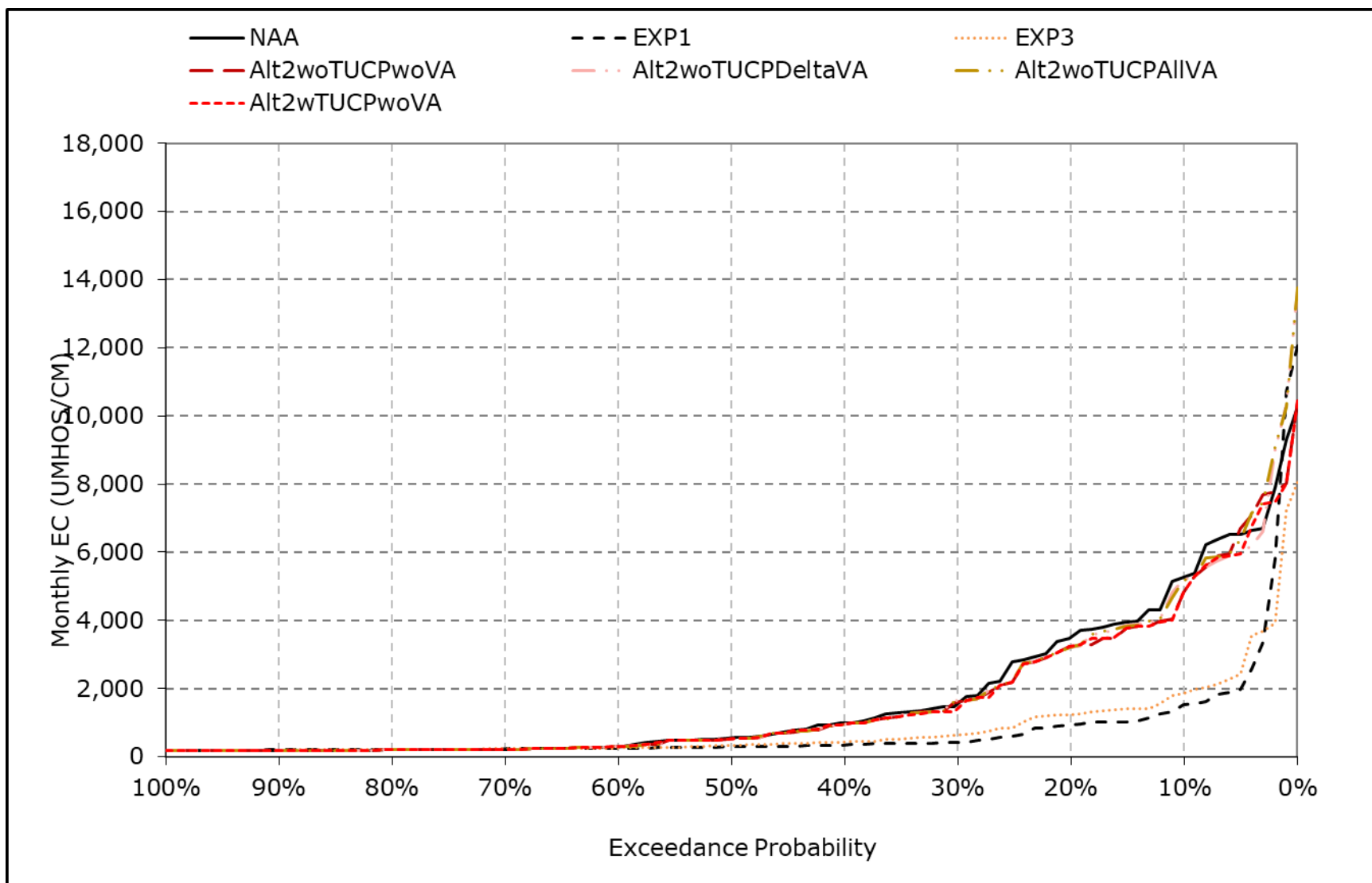
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-7. Sacramento River at Mallard Slough Salinity, January EC**



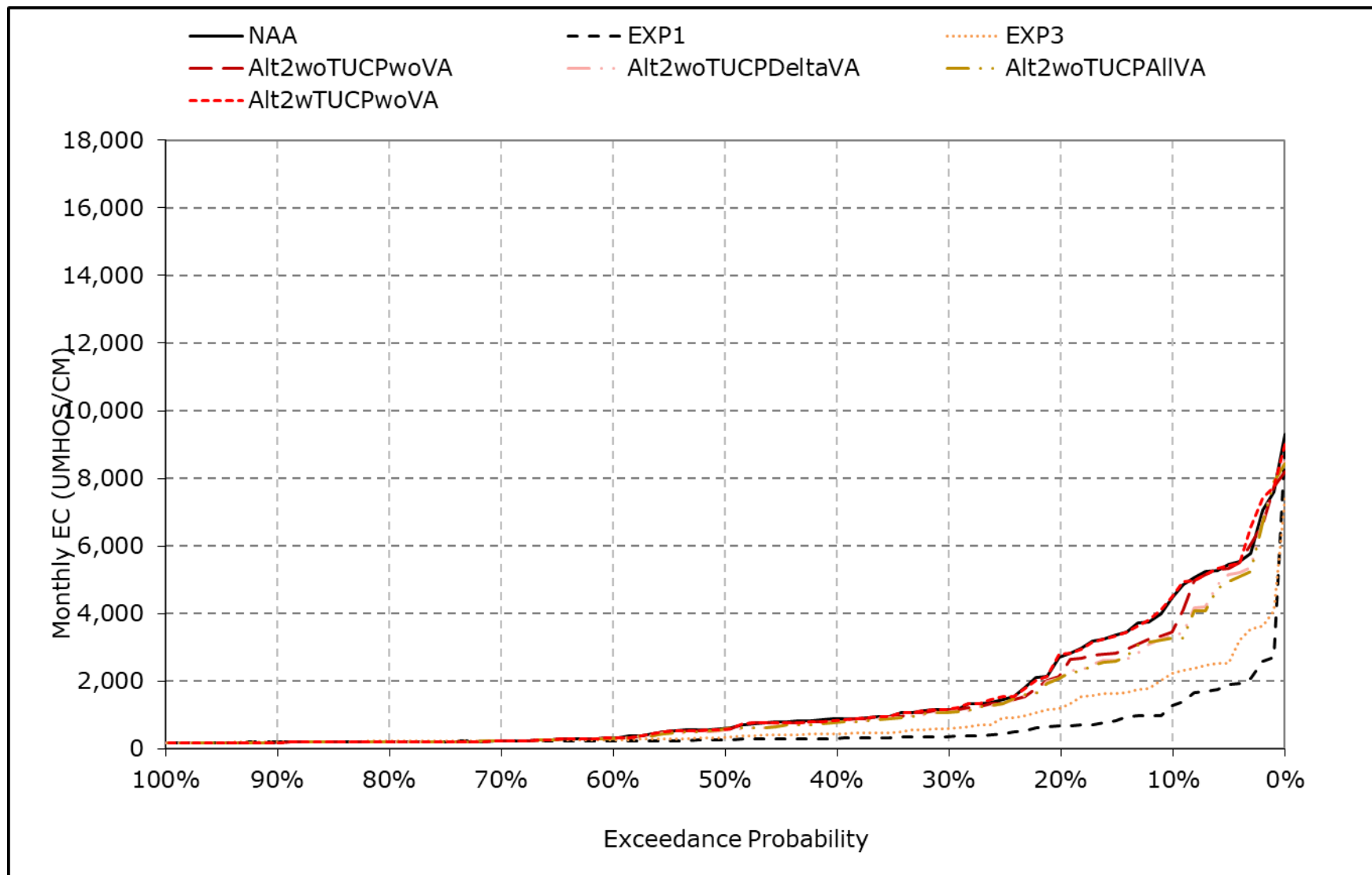
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-8. Sacramento River at Mallard Slough Salinity, February EC**



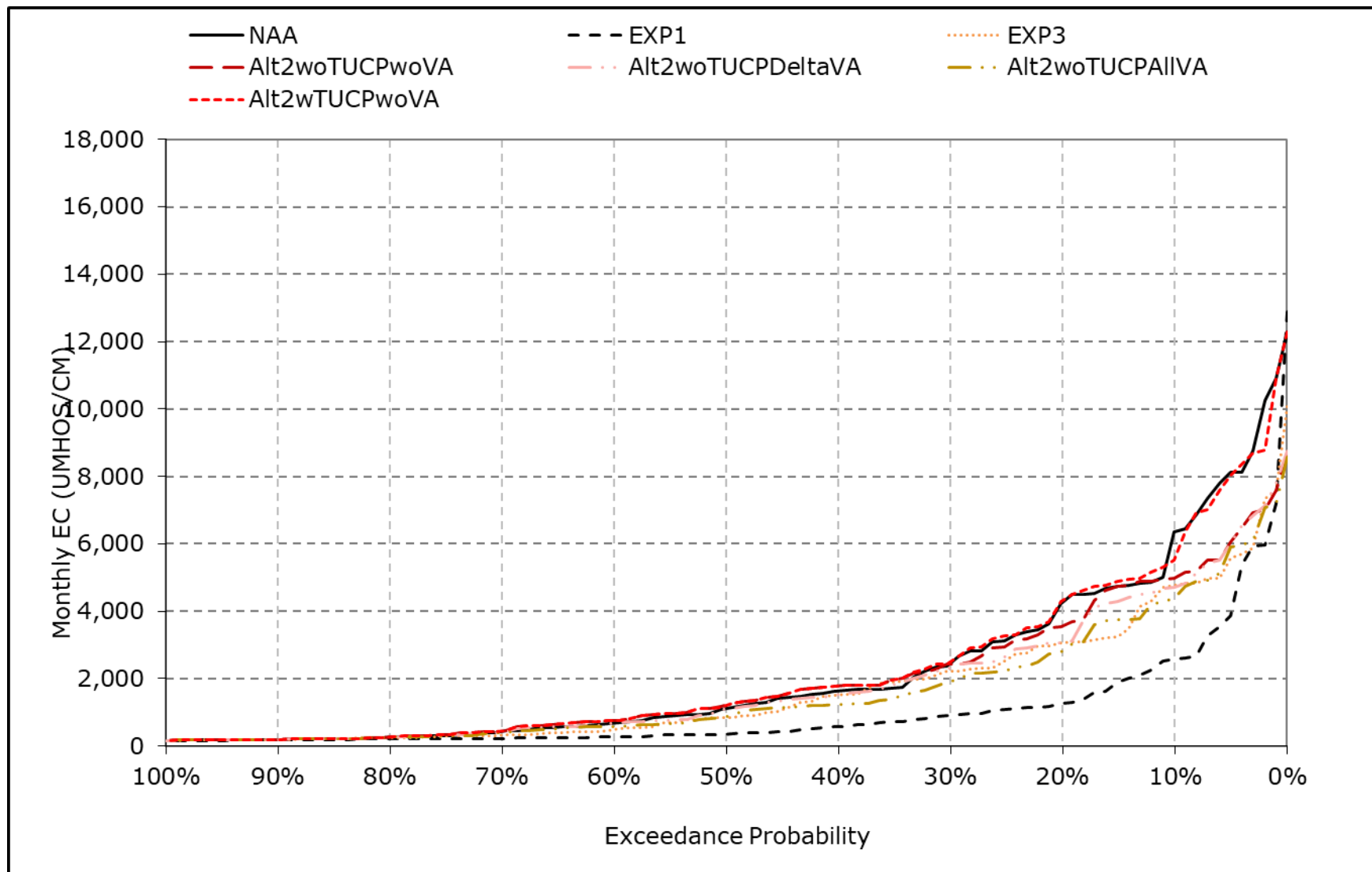
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-9. Sacramento River at Mallard Slough Salinity, March EC**



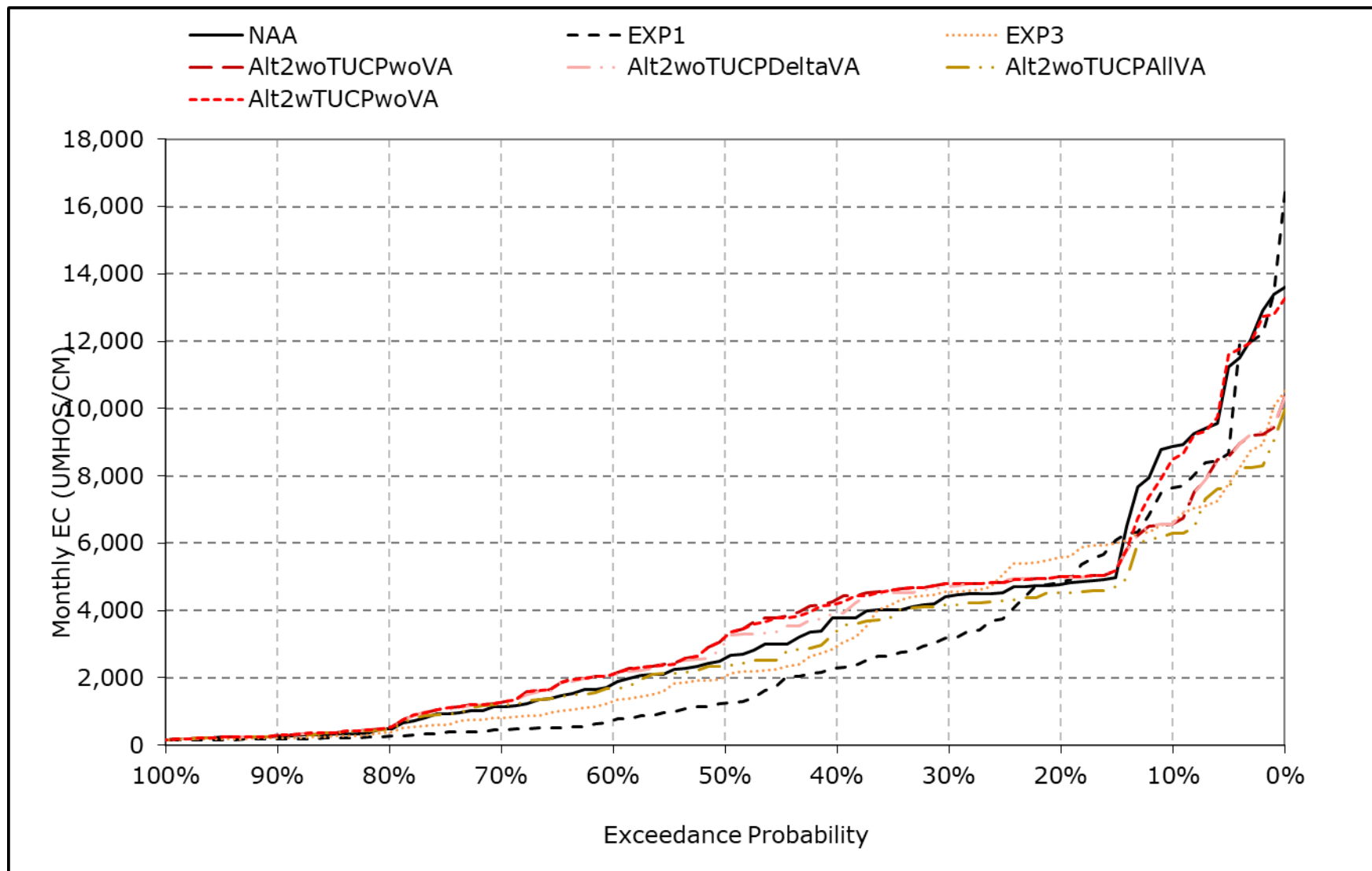
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-10. Sacramento River at Mallard Slough Salinity, April EC**



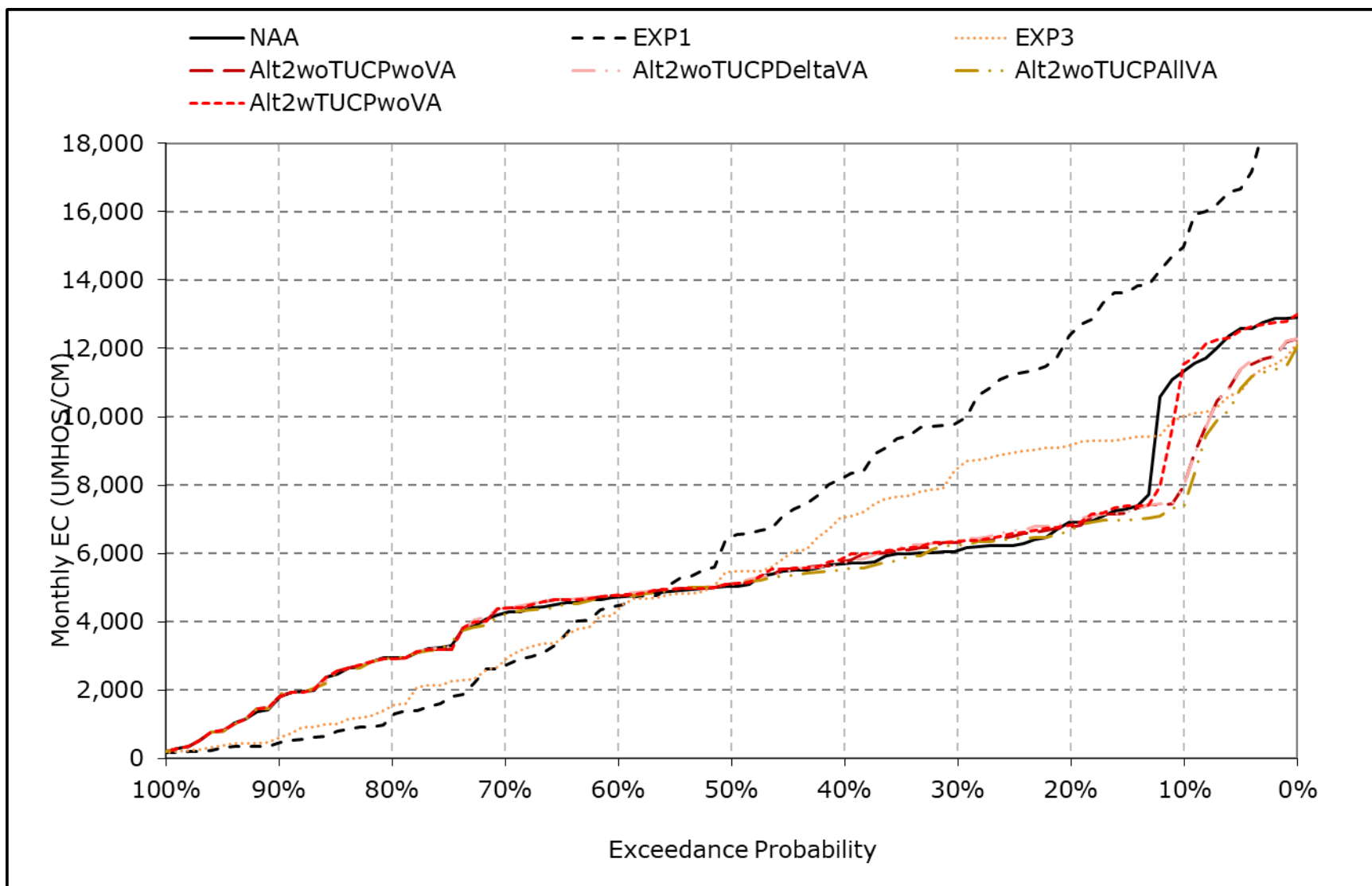
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-11. Sacramento River at Mallard Slough Salinity, May EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

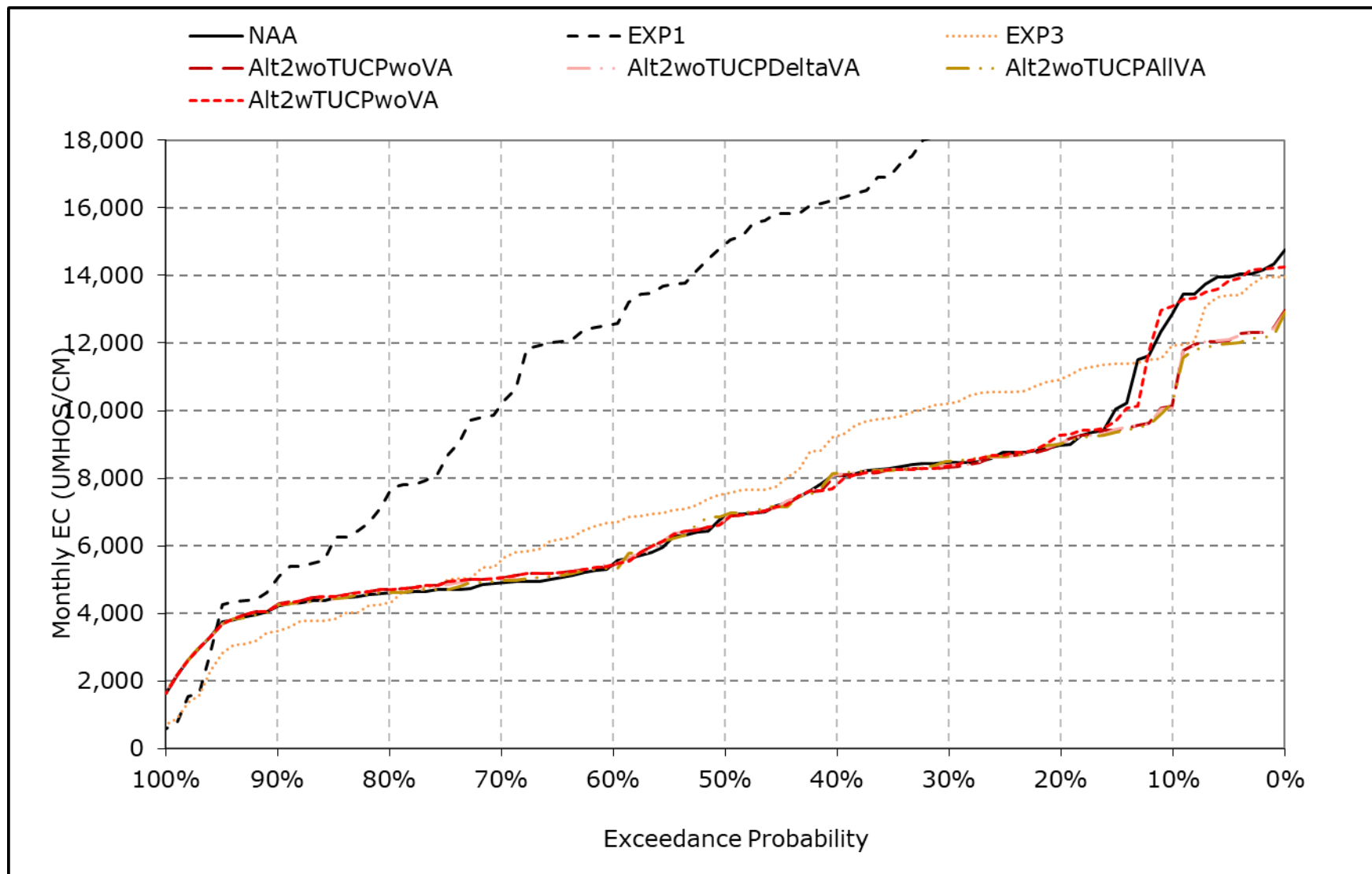
**Figure F.2.5-11-12. Sacramento River at Mallard Slough Salinity, June EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

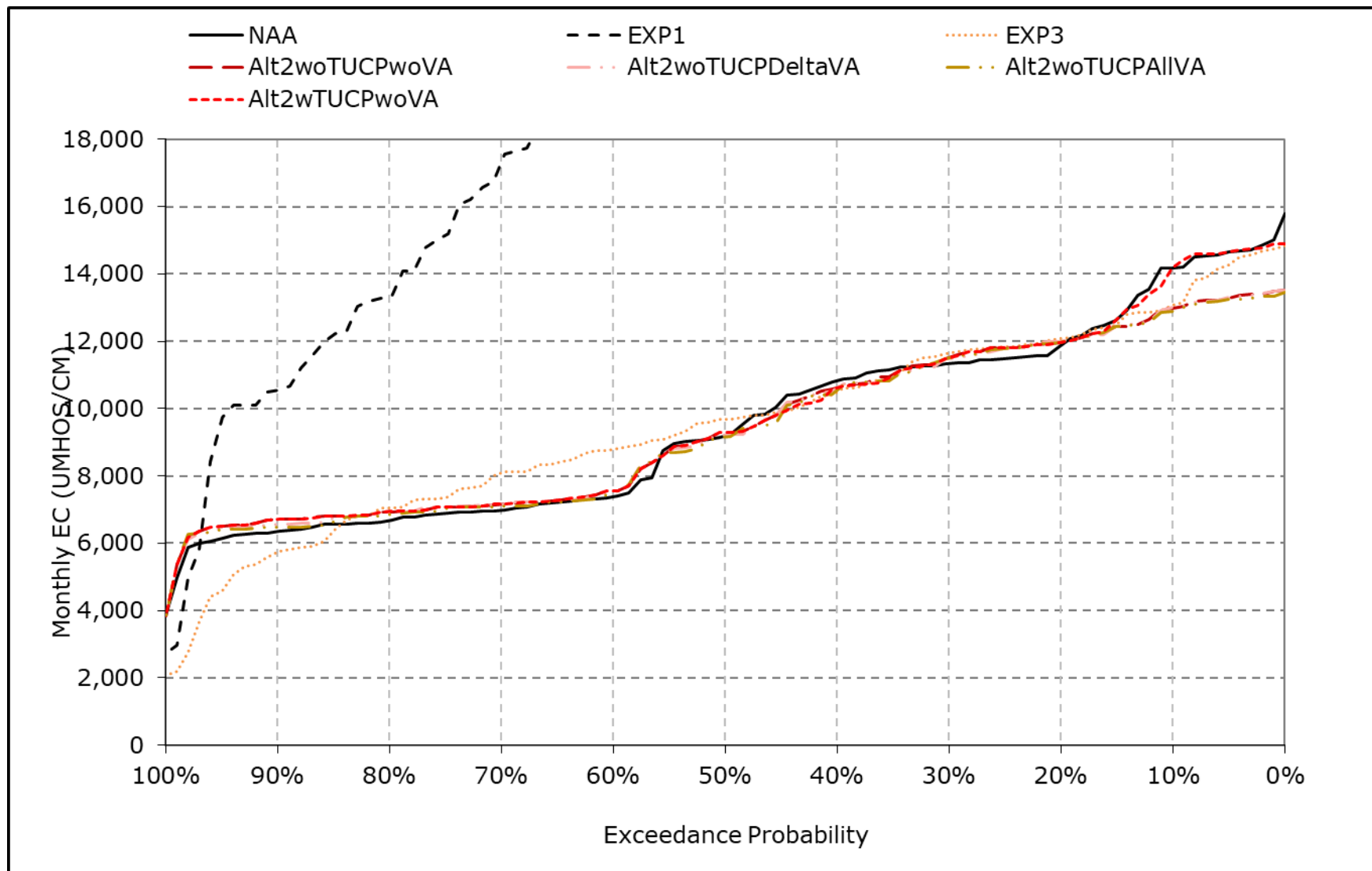


**Figure F.2.5-11-13. Sacramento River at Mallard Slough Salinity, July EC**



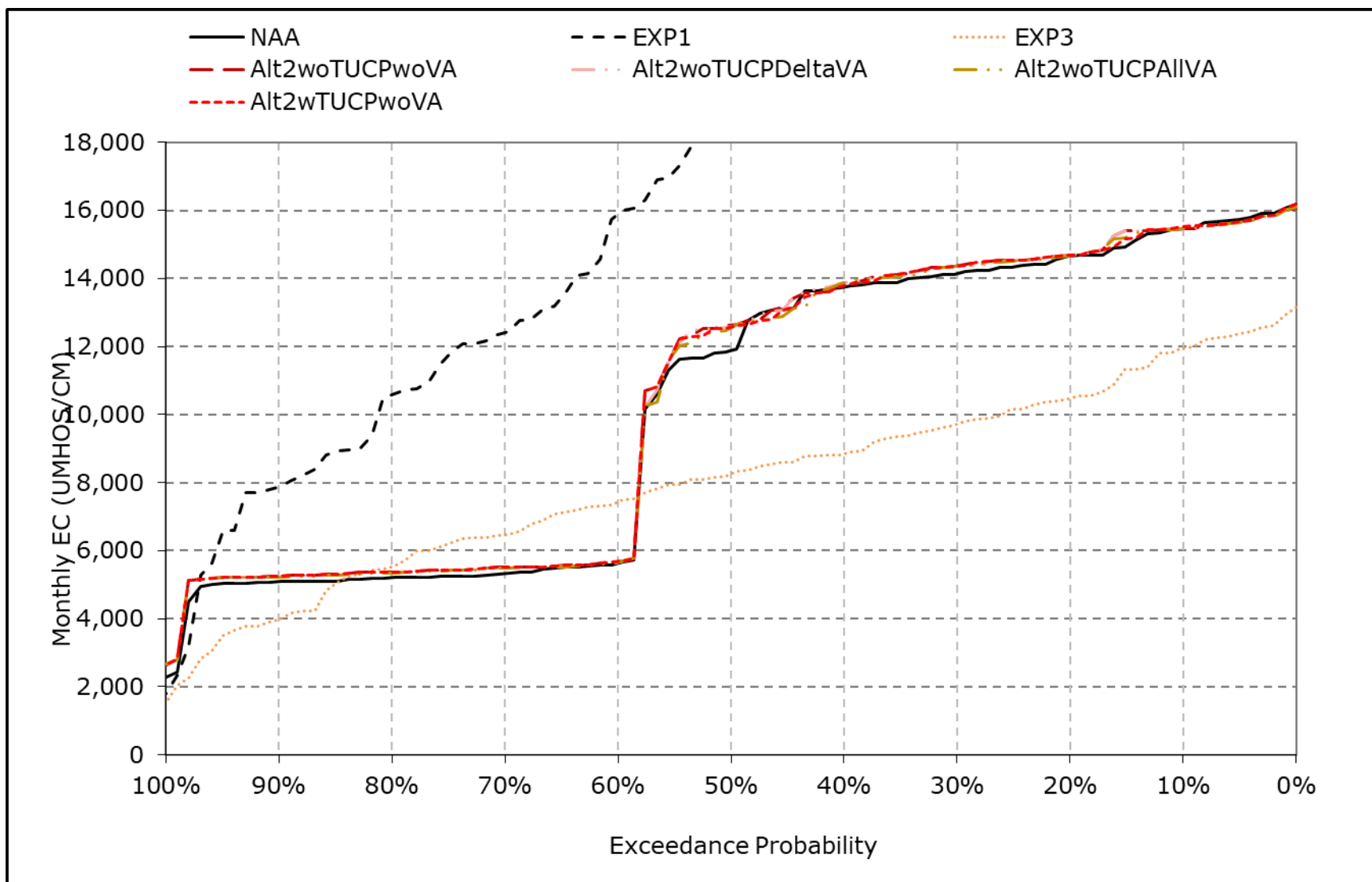
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-14. Sacramento River at Mallard Slough Salinity, August EC**



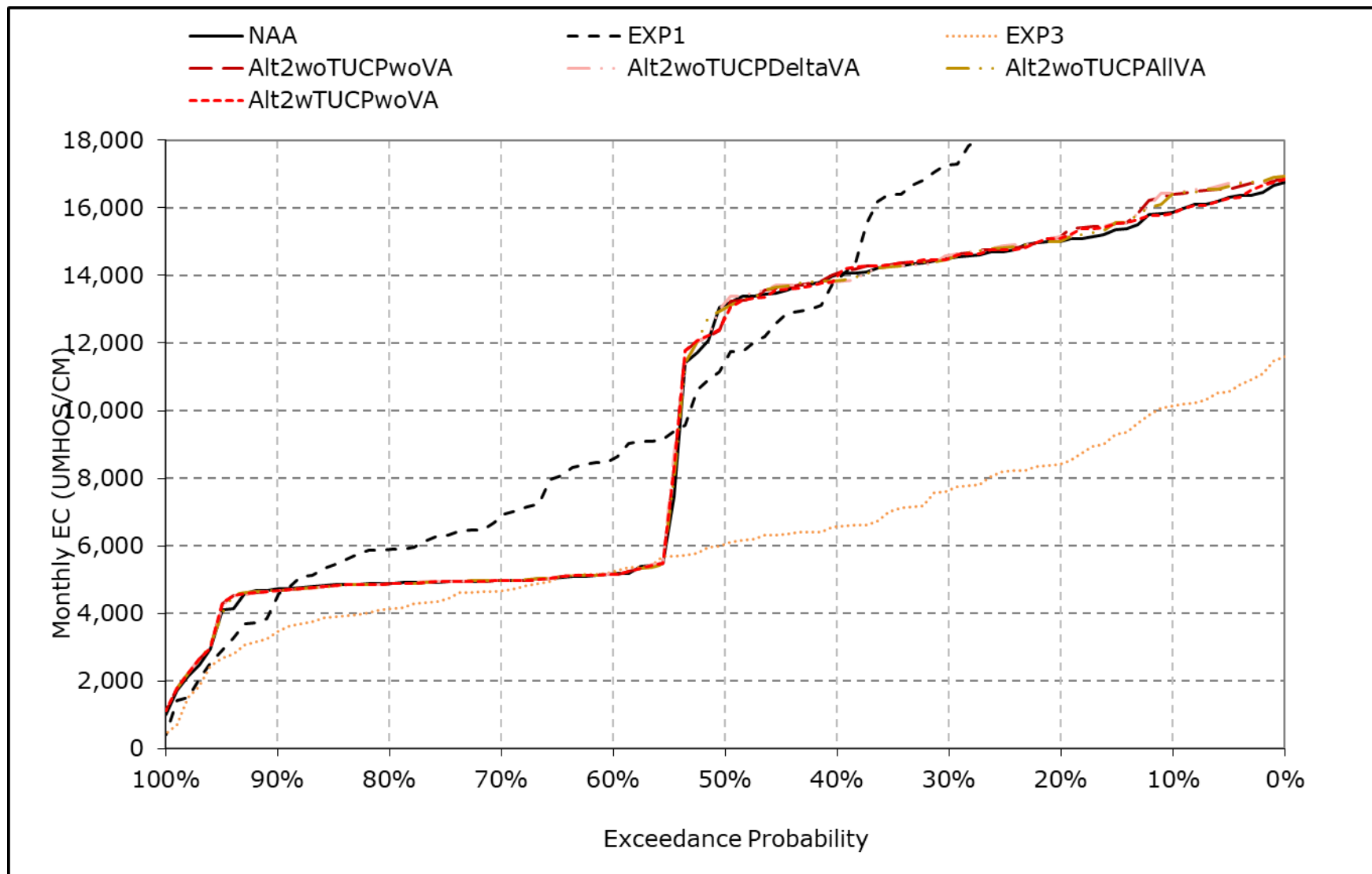
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-15. Sacramento River at Mallard Slough Salinity, September EC**



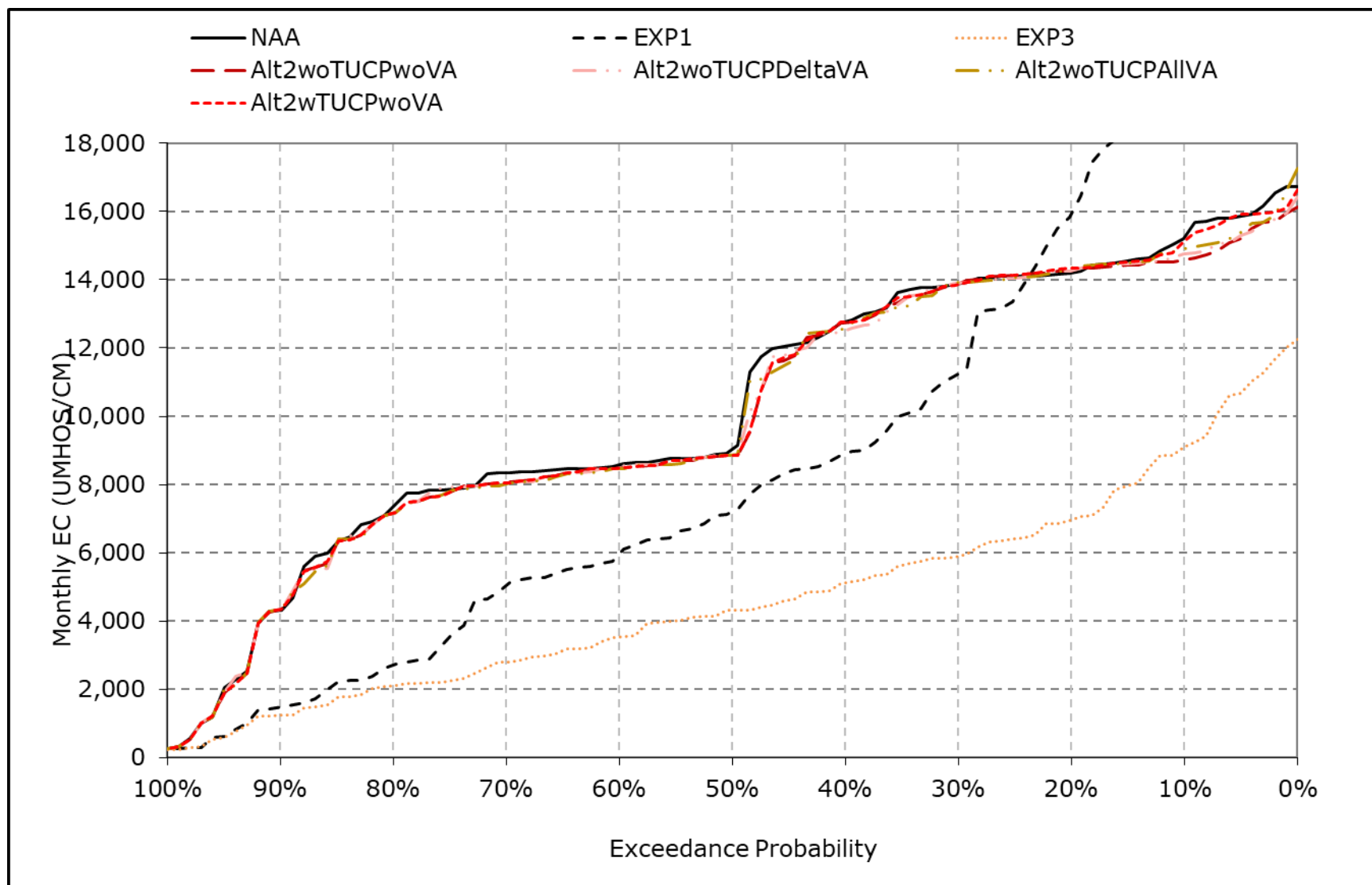
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-16. Sacramento River at Mallard Slough Salinity, October EC**



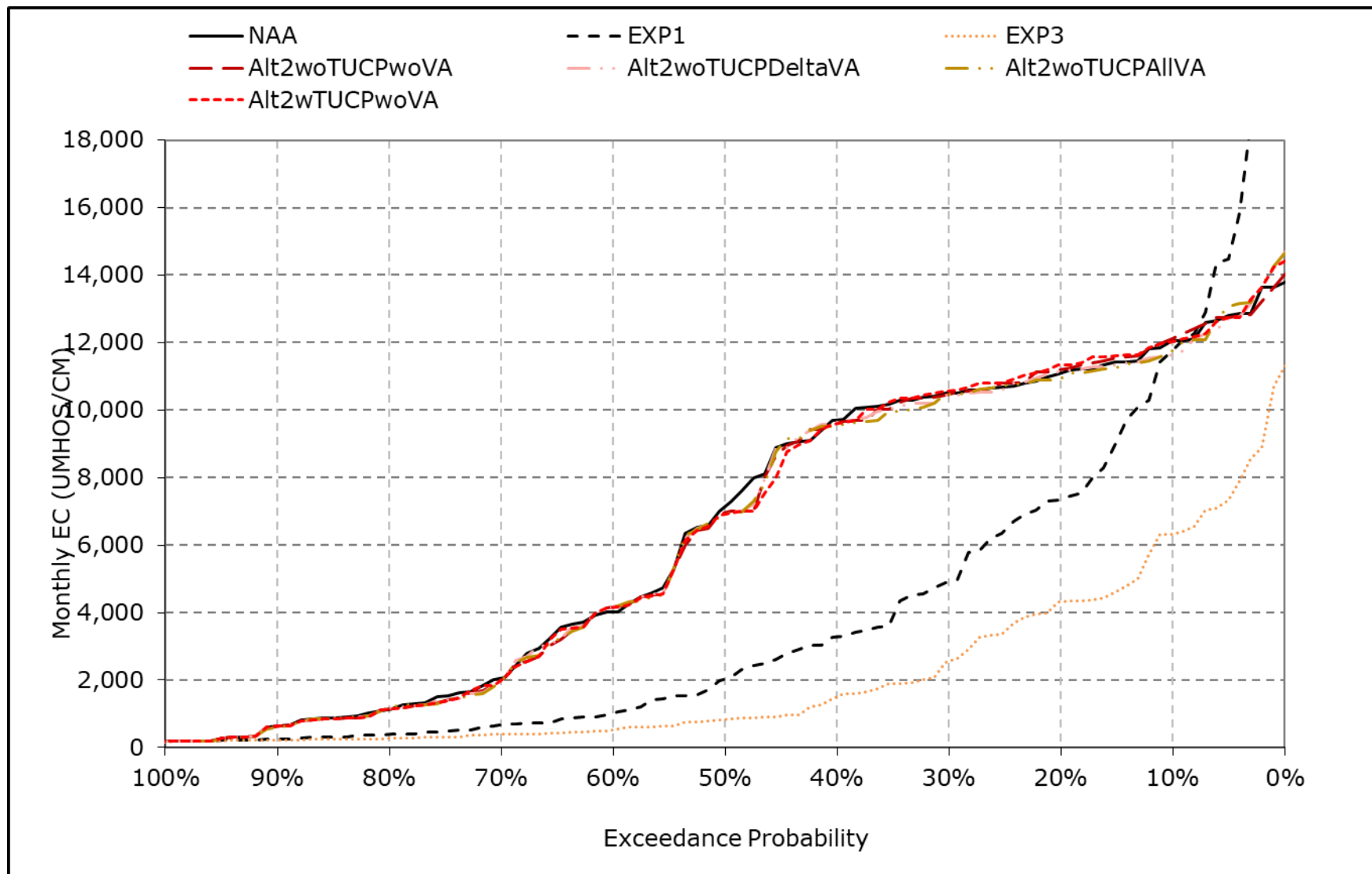
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-17. Sacramento River at Mallard Slough Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-11-18. Sacramento River at Mallard Slough Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-12-1a. Sacramento River at Collinsville Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 10% Exceedance                              | 11,532 | 11,141 | 8,119 | 6,374 | 2,686 | 2,238 | 3,529 | 5,626 | 7,686 | 8,903 | 9,922  | 11,065 |
| 20% Exceedance                              | 10,744 | 10,112 | 7,164 | 4,996 | 1,716 | 1,177 | 2,163 | 2,427 | 4,042 | 5,541 | 7,925  | 10,421 |
| 30% Exceedance                              | 10,164 | 9,741  | 6,585 | 2,663 | 734   | 473   | 1,095 | 2,209 | 3,394 | 5,018 | 7,468  | 9,934  |
| 40% Exceedance                              | 9,698  | 8,723  | 5,986 | 1,399 | 418   | 362   | 664   | 1,800 | 3,149 | 4,629 | 6,938  | 9,520  |
| 50% Exceedance                              | 8,841  | 5,440  | 4,102 | 849   | 274   | 297   | 458   | 1,094 | 2,635 | 3,709 | 5,609  | 7,768  |
| 60% Exceedance                              | 2,587  | 5,208  | 2,007 | 456   | 212   | 215   | 300   | 771   | 2,423 | 2,778 | 4,151  | 2,864  |
| 70% Exceedance                              | 2,414  | 4,958  | 1,095 | 215   | 196   | 195   | 240   | 467   | 2,133 | 2,413 | 3,837  | 2,615  |
| 80% Exceedance                              | 2,359  | 4,183  | 619   | 191   | 186   | 189   | 200   | 241   | 1,379 | 2,221 | 3,640  | 2,514  |
| 90% Exceedance                              | 2,234  | 2,270  | 366   | 184   | 182   | 183   | 186   | 189   | 724   | 1,956 | 3,349  | 2,448  |
| Full Simulation Period Average <sup>a</sup> | 6,636  | 6,873  | 4,092 | 2,178 | 936   | 742   | 1,208 | 1,935 | 3,161 | 4,260 | 5,991  | 6,716  |
| Wet Water Years (28%)                       | 2,264  | 3,782  | 3,238 | 260   | 188   | 210   | 242   | 460   | 1,338 | 2,041 | 3,499  | 2,459  |
| Above Normal Years (14%)                    | 2,260  | 4,451  | 3,540 | 1,036 | 253   | 216   | 297   | 763   | 1,934 | 2,371 | 3,802  | 2,514  |
| Below Normal Years (18%)                    | 8,675  | 8,159  | 3,362 | 1,683 | 725   | 427   | 737   | 1,250 | 2,899 | 3,882 | 5,995  | 8,377  |
| Dry Water Years (24%)                       | 9,752  | 8,314  | 4,486 | 3,594 | 1,252 | 841   | 1,122 | 1,886 | 3,251 | 5,079 | 7,498  | 9,939  |
| Critical Water Years (16%)                  | 11,741 | 11,214 | 6,487 | 4,964 | 2,606 | 2,343 | 4,354 | 6,383 | 7,587 | 8,993 | 10,000 | 11,142 |

**Table F.2.5-12-1b. Sacramento River at Collinsville Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10% Exceedance                              | 12,035 | 10,502 | 8,225 | 6,327 | 2,498 | 1,649 | 2,533 | 3,792 | 4,896 | 6,663 | 8,928 | 11,139 |
| 20% Exceedance                              | 10,884 | 10,150 | 7,285 | 4,101 | 1,434 | 881   | 1,672 | 2,575 | 3,932 | 5,615 | 8,036 | 10,447 |
| 30% Exceedance                              | 10,198 | 9,798  | 6,605 | 2,250 | 701   | 469   | 1,035 | 2,432 | 3,510 | 4,895 | 7,638 | 10,106 |
| 40% Exceedance                              | 9,769  | 8,664  | 5,820 | 1,481 | 396   | 362   | 719   | 2,178 | 3,217 | 4,608 | 6,738 | 9,453  |
| 50% Exceedance                              | 8,584  | 5,447  | 3,768 | 877   | 278   | 299   | 476   | 1,442 | 2,627 | 3,691 | 5,550 | 8,410  |
| 60% Exceedance                              | 2,611  | 5,127  | 2,077 | 406   | 211   | 215   | 321   | 904   | 2,493 | 2,750 | 4,224 | 2,875  |
| 70% Exceedance                              | 2,439  | 4,795  | 991   | 215   | 196   | 196   | 240   | 520   | 2,249 | 2,525 | 3,940 | 2,707  |
| 80% Exceedance                              | 2,356  | 4,070  | 579   | 190   | 186   | 189   | 201   | 254   | 1,362 | 2,276 | 3,791 | 2,612  |
| 90% Exceedance                              | 2,218  | 2,299  | 369   | 184   | 183   | 183   | 185   | 191   | 729   | 2,023 | 3,613 | 2,519  |
| Full Simulation Period Average <sup>a</sup> | 6,726  | 6,696  | 4,072 | 2,102 | 883   | 684   | 997   | 1,786 | 2,978 | 4,024 | 5,862 | 6,848  |
| Wet Water Years (28%)                       | 2,274  | 3,767  | 3,256 | 246   | 187   | 211   | 257   | 532   | 1,345 | 2,105 | 3,664 | 2,525  |
| Above Normal Years (14%)                    | 2,285  | 4,308  | 3,597 | 1,030 | 253   | 216   | 318   | 916   | 1,925 | 2,441 | 3,866 | 2,674  |
| Below Normal Years (18%)                    | 8,768  | 7,838  | 3,266 | 1,737 | 701   | 421   | 781   | 1,526 | 2,969 | 3,807 | 5,829 | 8,622  |
| Dry Water Years (24%)                       | 9,821  | 8,339  | 4,492 | 3,328 | 1,120 | 828   | 1,172 | 2,033 | 3,361 | 5,141 | 7,586 | 10,084 |
| Critical Water Years (16%)                  | 12,073 | 10,554 | 6,367 | 4,861 | 2,500 | 2,003 | 2,865 | 4,665 | 6,192 | 7,333 | 8,909 | 11,214 |

**Table F.2.5-12-1c. Sacramento River at Collinsville Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|------|------|------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 503  | -639 | 106  | -47  | -188 | -589 | -995   | -1,834 | -2,790 | -2,240 | -994   | 74  |
| 20% Exceedance                              | 140  | 38   | 122  | -894 | -282 | -296 | -492   | 148    | -110   | 74     | 111    | 26  |
| 30% Exceedance                              | 34   | 58   | 20   | -412 | -33  | -4   | -60    | 223    | 116    | -124   | 171    | 172 |
| 40% Exceedance                              | 70   | -59  | -166 | 82   | -22  | 0    | 55     | 378    | 69     | -21    | -201   | -67 |
| 50% Exceedance                              | -257 | 8    | -334 | 28   | 3    | 3    | 18     | 348    | -7     | -18    | -59    | 642 |
| 60% Exceedance                              | 24   | -81  | 70   | -50  | -1   | 0    | 22     | 132    | 70     | -27    | 73     | 11  |
| 70% Exceedance                              | 25   | -163 | -103 | 0    | 0    | 0    | 0      | 53     | 116    | 112    | 102    | 92  |
| 80% Exceedance                              | -4   | -113 | -40  | -1   | 0    | 0    | 1      | 13     | -17    | 55     | 151    | 99  |
| 90% Exceedance                              | -16  | 28   | 2    | 0    | 0    | 0    | 0      | 2      | 5      | 67     | 264    | 71  |
| Full Simulation Period Average <sup>a</sup> | 90   | -177 | -20  | -75  | -53  | -58  | -211   | -148   | -184   | -237   | -128   | 131 |
| Wet Water Years (28%)                       | 9    | -16  | 18   | -15  | 0    | 1    | 15     | 72     | 7      | 64     | 164    | 66  |
| Above Normal Years (14%)                    | 25   | -143 | 56   | -5   | 0    | 0    | 20     | 153    | -9     | 70     | 65     | 160 |
| Below Normal Years (18%)                    | 94   | -321 | -96  | 55   | -23  | -6   | 44     | 276    | 69     | -74    | -166   | 245 |
| Dry Water Years (24%)                       | 69   | 24   | 7    | -266 | -132 | -13  | 50     | 147    | 110    | 61     | 88     | 145 |
| Critical Water Years (16%)                  | 333  | -660 | -120 | -104 | -106 | -340 | -1,490 | -1,718 | -1,395 | -1,660 | -1,091 | 72  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-12-2a. Sacramento River at Collinsville Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 10% Exceedance                              | 11,532 | 11,141 | 8,119 | 6,374 | 2,686 | 2,238 | 3,529 | 5,626 | 7,686 | 8,903 | 9,922  | 11,065 |
| 20% Exceedance                              | 10,744 | 10,112 | 7,164 | 4,996 | 1,716 | 1,177 | 2,163 | 2,427 | 4,042 | 5,541 | 7,925  | 10,421 |
| 30% Exceedance                              | 10,164 | 9,741  | 6,585 | 2,663 | 734   | 473   | 1,095 | 2,209 | 3,394 | 5,018 | 7,468  | 9,934  |
| 40% Exceedance                              | 9,698  | 8,723  | 5,986 | 1,399 | 418   | 362   | 664   | 1,800 | 3,149 | 4,629 | 6,938  | 9,520  |
| 50% Exceedance                              | 8,841  | 5,440  | 4,102 | 849   | 274   | 297   | 458   | 1,094 | 2,635 | 3,709 | 5,609  | 7,768  |
| 60% Exceedance                              | 2,587  | 5,208  | 2,007 | 456   | 212   | 215   | 300   | 771   | 2,423 | 2,778 | 4,151  | 2,864  |
| 70% Exceedance                              | 2,414  | 4,958  | 1,095 | 215   | 196   | 195   | 240   | 467   | 2,133 | 2,413 | 3,837  | 2,615  |
| 80% Exceedance                              | 2,359  | 4,183  | 619   | 191   | 186   | 189   | 200   | 241   | 1,379 | 2,221 | 3,640  | 2,514  |
| 90% Exceedance                              | 2,234  | 2,270  | 366   | 184   | 182   | 183   | 186   | 189   | 724   | 1,956 | 3,349  | 2,448  |
| Full Simulation Period Average <sup>a</sup> | 6,636  | 6,873  | 4,092 | 2,178 | 936   | 742   | 1,208 | 1,935 | 3,161 | 4,260 | 5,991  | 6,716  |
| Wet Water Years (28%)                       | 2,264  | 3,782  | 3,238 | 260   | 188   | 210   | 242   | 460   | 1,338 | 2,041 | 3,499  | 2,459  |
| Above Normal Years (14%)                    | 2,260  | 4,451  | 3,540 | 1,036 | 253   | 216   | 297   | 763   | 1,934 | 2,371 | 3,802  | 2,514  |
| Below Normal Years (18%)                    | 8,675  | 8,159  | 3,362 | 1,683 | 725   | 427   | 737   | 1,250 | 2,899 | 3,882 | 5,995  | 8,377  |
| Dry Water Years (24%)                       | 9,752  | 8,314  | 4,486 | 3,594 | 1,252 | 841   | 1,122 | 1,886 | 3,251 | 5,079 | 7,498  | 9,939  |
| Critical Water Years (16%)                  | 11,741 | 11,214 | 6,487 | 4,964 | 2,606 | 2,343 | 4,354 | 6,383 | 7,587 | 8,993 | 10,000 | 11,142 |

**Table F.2.5-12-2b. Sacramento River at Collinsville Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10% Exceedance                              | 12,064 | 10,629 | 7,862 | 6,276 | 2,685 | 1,556 | 2,413 | 3,816 | 4,887 | 6,615 | 8,907 | 11,147 |
| 20% Exceedance                              | 10,917 | 10,199 | 7,188 | 4,198 | 1,433 | 954   | 1,392 | 2,579 | 4,043 | 5,577 | 8,124 | 10,480 |
| 30% Exceedance                              | 10,273 | 9,751  | 6,545 | 2,268 | 685   | 415   | 1,026 | 2,445 | 3,572 | 4,945 | 7,432 | 10,071 |
| 40% Exceedance                              | 9,496  | 8,513  | 5,896 | 1,473 | 395   | 329   | 589   | 1,883 | 3,130 | 4,654 | 6,719 | 9,556  |
| 50% Exceedance                              | 8,905  | 5,470  | 3,743 | 970   | 279   | 272   | 439   | 1,376 | 2,657 | 3,724 | 5,481 | 8,405  |
| 60% Exceedance                              | 2,614  | 5,104  | 2,084 | 415   | 211   | 216   | 300   | 900   | 2,500 | 2,778 | 4,210 | 2,852  |
| 70% Exceedance                              | 2,437  | 4,720  | 979   | 215   | 196   | 197   | 241   | 532   | 2,262 | 2,446 | 3,957 | 2,707  |
| 80% Exceedance                              | 2,378  | 4,068  | 597   | 190   | 186   | 190   | 200   | 255   | 1,350 | 2,239 | 3,761 | 2,603  |
| 90% Exceedance                              | 2,233  | 2,285  | 362   | 184   | 183   | 183   | 186   | 191   | 738   | 1,956 | 3,519 | 2,506  |
| Full Simulation Period Average <sup>a</sup> | 6,731  | 6,704  | 4,059 | 2,130 | 936   | 647   | 940   | 1,755 | 2,997 | 4,011 | 5,832 | 6,840  |
| Wet Water Years (28%)                       | 2,278  | 3,758  | 3,255 | 254   | 188   | 210   | 252   | 532   | 1,360 | 2,082 | 3,647 | 2,517  |
| Above Normal Years (14%)                    | 2,289  | 4,298  | 3,511 | 1,033 | 254   | 216   | 272   | 821   | 1,959 | 2,393 | 3,816 | 2,656  |
| Below Normal Years (18%)                    | 8,727  | 7,805  | 3,281 | 1,749 | 714   | 364   | 681   | 1,513 | 3,004 | 3,833 | 5,768 | 8,594  |
| Dry Water Years (24%)                       | 9,834  | 8,345  | 4,411 | 3,393 | 1,150 | 714   | 1,045 | 1,965 | 3,376 | 5,145 | 7,555 | 10,090 |
| Critical Water Years (16%)                  | 12,129 | 10,663 | 6,478 | 4,910 | 2,772 | 2,004 | 2,866 | 4,669 | 6,194 | 7,300 | 8,907 | 11,217 |

**Table F.2.5-12-2c. Sacramento River at Collinsville Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|------|------|------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 532  | -512 | -257 | -98  | 0    | -682 | -1,115 | -1,810 | -2,799 | -2,288 | -1,015 | 83  |
| 20% Exceedance                              | 174  | 87   | 25   | -798 | -282 | -223 | -771   | 152    | 1      | 36     | 199    | 59  |
| 30% Exceedance                              | 109  | 10   | -41  | -395 | -48  | -58  | -69    | 236    | 178    | -74    | -35    | 137 |
| 40% Exceedance                              | -202 | -210 | -89  | 74   | -23  | -33  | -75    | 84     | -19    | 25     | -219   | 37  |
| 50% Exceedance                              | 64   | 30   | -359 | 120  | 5    | -25  | -19    | 282    | 23     | 15     | -128   | 638 |
| 60% Exceedance                              | 26   | -104 | 78   | -41  | 0    | 2    | 0      | 129    | 77     | 1      | 60     | -13 |
| 70% Exceedance                              | 23   | -238 | -116 | 0    | 0    | 2    | 1      | 65     | 129    | 33     | 120    | 92  |
| 80% Exceedance                              | 19   | -115 | -21  | -1   | 0    | 1    | 0      | 14     | -29    | 18     | 121    | 89  |
| 90% Exceedance                              | -2   | 14   | -4   | 0    | 0    | 0    | 0      | 3      | 14     | 0      | 170    | 59  |
| Full Simulation Period Average <sup>a</sup> | 95   | -169 | -33  | -47  | 0    | -96  | -267   | -180   | -165   | -249   | -159   | 124 |
| Wet Water Years (28%)                       | 13   | -24  | 17   | -7   | 0    | 1    | 10     | 71     | 22     | 41     | 148    | 58  |
| Above Normal Years (14%)                    | 29   | -153 | -30  | -3   | 1    | 1    | -25    | 58     | 26     | 21     | 15     | 142 |
| Below Normal Years (18%)                    | 53   | -355 | -81  | 66   | -11  | -63  | -56    | 263    | 104    | -48    | -227   | 217 |
| Dry Water Years (24%)                       | 82   | 31   | -75  | -201 | -102 | -127 | -77    | 79     | 124    | 66     | 57     | 151 |
| Critical Water Years (16%)                  | 388  | -551 | -8   | -55  | 166  | -339 | -1,489 | -1,714 | -1,393 | -1,693 | -1,093 | 75  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-12-3a. Sacramento River at Collinsville Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 10% Exceedance                              | 11,532 | 11,141 | 8,119 | 6,374 | 2,686 | 2,238 | 3,529 | 5,626 | 7,686 | 8,903 | 9,922  | 11,065 |
| 20% Exceedance                              | 10,744 | 10,112 | 7,164 | 4,996 | 1,716 | 1,177 | 2,163 | 2,427 | 4,042 | 5,541 | 7,925  | 10,421 |
| 30% Exceedance                              | 10,164 | 9,741  | 6,585 | 2,663 | 734   | 473   | 1,095 | 2,209 | 3,394 | 5,018 | 7,468  | 9,934  |
| 40% Exceedance                              | 9,698  | 8,723  | 5,986 | 1,399 | 418   | 362   | 664   | 1,800 | 3,149 | 4,629 | 6,938  | 9,520  |
| 50% Exceedance                              | 8,841  | 5,440  | 4,102 | 849   | 274   | 297   | 458   | 1,094 | 2,635 | 3,709 | 5,609  | 7,768  |
| 60% Exceedance                              | 2,587  | 5,208  | 2,007 | 456   | 212   | 215   | 300   | 771   | 2,423 | 2,778 | 4,151  | 2,864  |
| 70% Exceedance                              | 2,414  | 4,958  | 1,095 | 215   | 196   | 195   | 240   | 467   | 2,133 | 2,413 | 3,837  | 2,615  |
| 80% Exceedance                              | 2,359  | 4,183  | 619   | 191   | 186   | 189   | 200   | 241   | 1,379 | 2,221 | 3,640  | 2,514  |
| 90% Exceedance                              | 2,234  | 2,270  | 366   | 184   | 182   | 183   | 186   | 189   | 724   | 1,956 | 3,349  | 2,448  |
| Full Simulation Period Average <sup>a</sup> | 6,636  | 6,873  | 4,092 | 2,178 | 936   | 742   | 1,208 | 1,935 | 3,161 | 4,260 | 5,991  | 6,716  |
| Wet Water Years (28%)                       | 2,264  | 3,782  | 3,238 | 260   | 188   | 210   | 242   | 460   | 1,338 | 2,041 | 3,499  | 2,459  |
| Above Normal Years (14%)                    | 2,260  | 4,451  | 3,540 | 1,036 | 253   | 216   | 297   | 763   | 1,934 | 2,371 | 3,802  | 2,514  |
| Below Normal Years (18%)                    | 8,675  | 8,159  | 3,362 | 1,683 | 725   | 427   | 737   | 1,250 | 2,899 | 3,882 | 5,995  | 8,377  |
| Dry Water Years (24%)                       | 9,752  | 8,314  | 4,486 | 3,594 | 1,252 | 841   | 1,122 | 1,886 | 3,251 | 5,079 | 7,498  | 9,939  |
| Critical Water Years (16%)                  | 11,741 | 11,214 | 6,487 | 4,964 | 2,606 | 2,343 | 4,354 | 6,383 | 7,587 | 8,993 | 10,000 | 11,142 |

**Table F.2.5-12-3b. Sacramento River at Collinsville Salinity, Alt2woTUCPAILVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10% Exceedance                              | 12,045 | 10,797 | 8,001 | 6,259 | 2,655 | 1,477 | 2,171 | 3,517 | 4,495 | 6,583 | 8,854 | 11,142 |
| 20% Exceedance                              | 10,793 | 10,214 | 7,105 | 4,505 | 1,440 | 943   | 1,236 | 2,299 | 3,841 | 5,557 | 8,118 | 10,476 |
| 30% Exceedance                              | 10,257 | 9,761  | 6,569 | 2,284 | 676   | 411   | 773   | 2,049 | 3,470 | 4,986 | 7,485 | 10,071 |
| 40% Exceedance                              | 9,563  | 8,535  | 5,844 | 1,439 | 406   | 332   | 496   | 1,606 | 3,042 | 4,704 | 6,660 | 9,558  |
| 50% Exceedance                              | 8,712  | 5,473  | 3,811 | 906   | 280   | 273   | 353   | 1,018 | 2,718 | 3,814 | 5,483 | 8,396  |
| 60% Exceedance                              | 2,612  | 5,088  | 2,080 | 435   | 211   | 216   | 271   | 709   | 2,475 | 2,691 | 4,188 | 2,852  |
| 70% Exceedance                              | 2,438  | 4,702  | 974   | 215   | 196   | 197   | 235   | 482   | 2,109 | 2,422 | 3,870 | 2,695  |
| 80% Exceedance                              | 2,382  | 4,071  | 590   | 190   | 186   | 190   | 200   | 242   | 1,381 | 2,238 | 3,752 | 2,604  |
| 90% Exceedance                              | 2,235  | 2,252  | 347   | 184   | 183   | 183   | 186   | 191   | 769   | 2,019 | 3,454 | 2,500  |
| Full Simulation Period Average <sup>a</sup> | 6,711  | 6,732  | 4,049 | 2,135 | 954   | 640   | 831   | 1,511 | 2,882 | 3,998 | 5,804 | 6,806  |
| Wet Water Years (28%)                       | 2,274  | 3,759  | 3,252 | 256   | 188   | 211   | 250   | 516   | 1,359 | 2,075 | 3,631 | 2,515  |
| Above Normal Years (14%)                    | 2,293  | 4,292  | 3,498 | 1,025 | 254   | 216   | 255   | 652   | 1,901 | 2,376 | 3,753 | 2,656  |
| Below Normal Years (18%)                    | 8,712  | 7,937  | 3,234 | 1,719 | 715   | 362   | 506   | 1,161 | 2,901 | 3,836 | 5,728 | 8,451  |
| Dry Water Years (24%)                       | 9,792  | 8,210  | 4,380 | 3,307 | 1,168 | 700   | 863   | 1,658 | 3,236 | 5,173 | 7,559 | 10,080 |
| Critical Water Years (16%)                  | 12,080 | 10,909 | 6,536 | 5,101 | 2,858 | 1,987 | 2,673 | 4,176 | 5,855 | 7,203 | 8,853 | 11,183 |

**Table F.2.5-12-3c. Sacramento River at Collinsville Salinity, Alt2woTUCPAILVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|------|------|------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 513  | -344 | -118 | -115 | -31  | -761 | -1,357 | -2,109 | -3,191 | -2,320 | -1,068 | 77  |
| 20% Exceedance                              | 50   | 102  | -59  | -491 | -275 | -234 | -927   | -128   | -201   | 16     | 193    | 55  |
| 30% Exceedance                              | 93   | 21   | -16  | -379 | -58  | -62  | -322   | -160   | 76     | -32    | 17     | 137 |
| 40% Exceedance                              | -135 | -188 | -142 | 40   | -13  | -30  | -168   | -194   | -107   | 75     | -278   | 39  |
| 50% Exceedance                              | -129 | 33   | -292 | 57   | 5    | -24  | -105   | -76    | 83     | 105    | -126   | 628 |
| 60% Exceedance                              | 25   | -120 | 74   | -21  | -1   | 2    | -28    | -62    | 52     | -86    | 37     | -12 |
| 70% Exceedance                              | 24   | -256 | -121 | 0    | 0    | 2    | -5     | 15     | -24    | 9      | 32     | 80  |
| 80% Exceedance                              | 22   | -112 | -29  | -1   | 0    | 1    | 0      | 1      | 2      | 17     | 112    | 90  |
| 90% Exceedance                              | 0    | -18  | -20  | 0    | 1    | 0    | 0      | 3      | 45     | 63     | 105    | 53  |
| Full Simulation Period Average <sup>a</sup> | 75   | -141 | -43  | -43  | 18   | -102 | -377   | -424   | -279   | -262   | -187   | 89  |
| Wet Water Years (28%)                       | 10   | -24  | 14   | -4   | 0    | 1    | 8      | 56     | 22     | 34     | 132    | 56  |
| Above Normal Years (14%)                    | 34   | -159 | -42  | -10  | 1    | 0    | -42    | -111   | -33    | 4      | -48    | 142 |
| Below Normal Years (18%)                    | 37   | -222 | -127 | 36   | -10  | -64  | -231   | -89    | 1      | -46    | -267   | 74  |
| Dry Water Years (24%)                       | 40   | -104 | -106 | -286 | -84  | -141 | -259   | -228   | -16    | 94     | 61     | 141 |
| Critical Water Years (16%)                  | 339  | -305 | 49   | 137  | 252  | -356 | -1,682 | -2,208 | -1,732 | -1,790 | -1,147 | 41  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-12-4a. Sacramento River at Collinsville Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 10% Exceedance                              | 11,532 | 11,141 | 8,119 | 6,374 | 2,686 | 2,238 | 3,529 | 5,626 | 7,686 | 8,903 | 9,922  | 11,065 |
| 20% Exceedance                              | 10,744 | 10,112 | 7,164 | 4,996 | 1,716 | 1,177 | 2,163 | 2,427 | 4,042 | 5,541 | 7,925  | 10,421 |
| 30% Exceedance                              | 10,164 | 9,741  | 6,585 | 2,663 | 734   | 473   | 1,095 | 2,209 | 3,394 | 5,018 | 7,468  | 9,934  |
| 40% Exceedance                              | 9,698  | 8,723  | 5,986 | 1,399 | 418   | 362   | 664   | 1,800 | 3,149 | 4,629 | 6,938  | 9,520  |
| 50% Exceedance                              | 8,841  | 5,440  | 4,102 | 849   | 274   | 297   | 458   | 1,094 | 2,635 | 3,709 | 5,609  | 7,768  |
| 60% Exceedance                              | 2,587  | 5,208  | 2,007 | 456   | 212   | 215   | 300   | 771   | 2,423 | 2,778 | 4,151  | 2,864  |
| 70% Exceedance                              | 2,414  | 4,958  | 1,095 | 215   | 196   | 195   | 240   | 467   | 2,133 | 2,413 | 3,837  | 2,615  |
| 80% Exceedance                              | 2,359  | 4,183  | 619   | 191   | 186   | 189   | 200   | 241   | 1,379 | 2,221 | 3,640  | 2,514  |
| 90% Exceedance                              | 2,234  | 2,270  | 366   | 184   | 182   | 183   | 186   | 189   | 724   | 1,956 | 3,349  | 2,448  |
| Full Simulation Period Average <sup>a</sup> | 6,636  | 6,873  | 4,092 | 2,178 | 936   | 742   | 1,208 | 1,935 | 3,161 | 4,260 | 5,991  | 6,716  |
| Wet Water Years (28%)                       | 2,264  | 3,782  | 3,238 | 260   | 188   | 210   | 242   | 460   | 1,338 | 2,041 | 3,499  | 2,459  |
| Above Normal Years (14%)                    | 2,260  | 4,451  | 3,540 | 1,036 | 253   | 216   | 297   | 763   | 1,934 | 2,371 | 3,802  | 2,514  |
| Below Normal Years (18%)                    | 8,675  | 8,159  | 3,362 | 1,683 | 725   | 427   | 737   | 1,250 | 2,899 | 3,882 | 5,995  | 8,377  |
| Dry Water Years (24%)                       | 9,752  | 8,314  | 4,486 | 3,594 | 1,252 | 841   | 1,122 | 1,886 | 3,251 | 5,079 | 7,498  | 9,939  |
| Critical Water Years (16%)                  | 11,741 | 11,214 | 6,487 | 4,964 | 2,606 | 2,343 | 4,354 | 6,383 | 7,587 | 8,993 | 10,000 | 11,142 |

**Table F.2.5-12-4b. Sacramento River at Collinsville Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10% Exceedance                              | 11,453 | 11,015 | 8,101 | 6,033 | 2,497 | 2,268 | 2,964 | 5,345 | 7,927 | 9,133 | 9,759 | 11,099 |
| 20% Exceedance                              | 10,870 | 10,258 | 7,461 | 4,218 | 1,501 | 1,218 | 2,211 | 2,574 | 3,961 | 5,812 | 8,036 | 10,430 |
| 30% Exceedance                              | 10,189 | 9,806  | 6,704 | 2,716 | 685   | 477   | 1,120 | 2,432 | 3,551 | 4,908 | 7,639 | 10,097 |
| 40% Exceedance                              | 9,665  | 8,686  | 5,823 | 1,436 | 419   | 356   | 717   | 2,080 | 3,255 | 4,466 | 6,622 | 9,457  |
| 50% Exceedance                              | 8,544  | 5,449  | 3,742 | 862   | 282   | 299   | 476   | 1,442 | 2,627 | 3,691 | 5,549 | 8,393  |
| 60% Exceedance                              | 2,611  | 5,127  | 2,075 | 403   | 211   | 215   | 322   | 903   | 2,492 | 2,758 | 4,225 | 2,874  |
| 70% Exceedance                              | 2,439  | 4,794  | 998   | 214   | 196   | 195   | 240   | 519   | 2,249 | 2,524 | 3,946 | 2,709  |
| 80% Exceedance                              | 2,355  | 4,071  | 575   | 190   | 186   | 189   | 201   | 254   | 1,362 | 2,276 | 3,790 | 2,613  |
| 90% Exceedance                              | 2,217  | 2,294  | 366   | 184   | 183   | 183   | 185   | 191   | 721   | 2,019 | 3,611 | 2,519  |
| Full Simulation Period Average <sup>a</sup> | 6,670  | 6,769  | 4,092 | 2,040 | 872   | 750   | 1,215 | 2,030 | 3,177 | 4,267 | 6,009 | 6,817  |
| Wet Water Years (28%)                       | 2,274  | 3,767  | 3,253 | 246   | 187   | 211   | 257   | 532   | 1,345 | 2,105 | 3,664 | 2,525  |
| Above Normal Years (14%)                    | 2,282  | 4,307  | 3,599 | 1,028 | 252   | 216   | 317   | 916   | 1,924 | 2,443 | 3,865 | 2,674  |
| Below Normal Years (18%)                    | 8,722  | 7,833  | 3,296 | 1,702 | 694   | 418   | 781   | 1,525 | 2,967 | 3,791 | 5,763 | 8,533  |
| Dry Water Years (24%)                       | 9,821  | 8,329  | 4,552 | 3,382 | 1,123 | 828   | 1,172 | 2,031 | 3,359 | 5,140 | 7,581 | 10,080 |
| Critical Water Years (16%)                  | 11,761 | 11,058 | 6,368 | 4,433 | 2,435 | 2,415 | 4,231 | 6,190 | 7,444 | 8,872 | 9,911 | 11,126 |

**Table F.2.5-12-4c. Sacramento River at Collinsville Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|------|------|------|------|------|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | -79  | -126 | -18  | -341 | -189 | 30  | -565 | -281 | 241  | 230  | -163 | 34  |
| 20% Exceedance                              | 127  | 146  | 297  | -777 | -215 | 42  | 48   | 147  | -82  | 271  | 111  | 9   |
| 30% Exceedance                              | 25   | 65   | 119  | 53   | -49  | 4   | 24   | 223  | 157  | -110 | 172  | 163 |
| 40% Exceedance                              | -33  | -37  | -163 | 36   | 0    | -6  | 53   | 280  | 106  | -163 | -316 | -62 |
| 50% Exceedance                              | -297 | 9    | -360 | 13   | 7    | 3   | 17   | 348  | -7   | -19  | -60  | 625 |
| 60% Exceedance                              | 24   | -81  | 69   | -53  | -1   | 0   | 22   | 132  | 69   | -20  | 74   | 10  |
| 70% Exceedance                              | 25   | -164 | -97  | -1   | 0    | 0   | 0    | 53   | 116  | 111  | 108  | 94  |
| 80% Exceedance                              | -5   | -112 | -44  | -1   | 0    | 0   | 1    | 13   | -17  | 55   | 150  | 99  |
| 90% Exceedance                              | -17  | 24   | 0    | 0    | 0    | 0   | 0    | 2    | -2   | 63   | 262  | 71  |
| Full Simulation Period Average <sup>a</sup> | 34   | -104 | -1   | -137 | -64  | 7   | 7    | 95   | 16   | 7    | 19   | 100 |
| Wet Water Years (28%)                       | 9    | -15  | 15   | -15  | 0    | 1   | 15   | 72   | 7    | 64   | 165  | 67  |
| Above Normal Years (14%)                    | 22   | -144 | 58   | -8   | -1   | 0   | 20   | 153  | -10  | 71   | 63   | 160 |
| Below Normal Years (18%)                    | 48   | -326 | -65  | 20   | -31  | -9  | 44   | 275  | 68   | -90  | -232 | 155 |
| Dry Water Years (24%)                       | 69   | 15   | 66   | -212 | -129 | -13 | 50   | 146  | 108  | 60   | 83   | 141 |
| Critical Water Years (16%)                  | 21   | -156 | -119 | -531 | -171 | 72  | -123 | -193 | -142 | -121 | -89  | -16 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-12-5a. Sacramento River at Collinsville Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug    | Sep    |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| <b>10% Exceedance</b>                             | 11,532 | 11,141 | 8,119 | 6,374 | 2,686 | 2,238 | 3,529 | 5,626 | 7,686 | 8,903 | 9,922  | 11,065 |
| <b>20% Exceedance</b>                             | 10,744 | 10,112 | 7,164 | 4,996 | 1,716 | 1,177 | 2,163 | 2,427 | 4,042 | 5,541 | 7,925  | 10,421 |
| <b>30% Exceedance</b>                             | 10,164 | 9,741  | 6,585 | 2,663 | 734   | 473   | 1,095 | 2,209 | 3,394 | 5,018 | 7,468  | 9,934  |
| <b>40% Exceedance</b>                             | 9,698  | 8,723  | 5,986 | 1,399 | 418   | 362   | 664   | 1,800 | 3,149 | 4,629 | 6,938  | 9,520  |
| <b>50% Exceedance</b>                             | 8,841  | 5,440  | 4,102 | 849   | 274   | 297   | 458   | 1,094 | 2,635 | 3,709 | 5,609  | 7,768  |
| <b>60% Exceedance</b>                             | 2,587  | 5,208  | 2,007 | 456   | 212   | 215   | 300   | 771   | 2,423 | 2,778 | 4,151  | 2,864  |
| <b>70% Exceedance</b>                             | 2,414  | 4,958  | 1,095 | 215   | 196   | 195   | 240   | 467   | 2,133 | 2,413 | 3,837  | 2,615  |
| <b>80% Exceedance</b>                             | 2,359  | 4,183  | 619   | 191   | 186   | 189   | 200   | 241   | 1,379 | 2,221 | 3,640  | 2,514  |
| <b>90% Exceedance</b>                             | 2,234  | 2,270  | 366   | 184   | 182   | 183   | 186   | 189   | 724   | 1,956 | 3,349  | 2,448  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 6,636  | 6,873  | 4,092 | 2,178 | 936   | 742   | 1,208 | 1,935 | 3,161 | 4,260 | 5,991  | 6,716  |
| <b>Wet Water Years (28%)</b>                      | 2,264  | 3,782  | 3,238 | 260   | 188   | 210   | 242   | 460   | 1,338 | 2,041 | 3,499  | 2,459  |
| <b>Above Normal Years (14%)</b>                   | 2,260  | 4,451  | 3,540 | 1,036 | 253   | 216   | 297   | 763   | 1,934 | 2,371 | 3,802  | 2,514  |
| <b>Below Normal Years (18%)</b>                   | 8,675  | 8,159  | 3,362 | 1,683 | 725   | 427   | 737   | 1,250 | 2,899 | 3,882 | 5,995  | 8,377  |
| <b>Dry Water Years (24%)</b>                      | 9,752  | 8,314  | 4,486 | 3,594 | 1,252 | 841   | 1,122 | 1,886 | 3,251 | 5,079 | 7,498  | 9,939  |
| <b>Critical Water Years (16%)</b>                 | 11,741 | 11,214 | 6,487 | 4,964 | 2,606 | 2,343 | 4,354 | 6,383 | 7,587 | 8,993 | 10,000 | 11,142 |

**Table F.2.5-12-5b. Sacramento River at Collinsville Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct   | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>10% Exceedance</b>                             | 6,173 | 5,666 | 3,478 | 1,374 | 794   | 959   | 2,521 | 3,839 | 6,580 | 7,939 | 8,818 | 7,583 |
| <b>20% Exceedance</b>                             | 4,843 | 3,874 | 2,160 | 915   | 507   | 532   | 1,451 | 3,068 | 5,901 | 7,113 | 8,057 | 6,429 |
| <b>30% Exceedance</b>                             | 4,188 | 3,130 | 1,102 | 575   | 319   | 300   | 1,028 | 2,356 | 5,385 | 6,492 | 7,620 | 5,765 |
| <b>40% Exceedance</b>                             | 3,421 | 2,512 | 650   | 361   | 269   | 272   | 649   | 1,352 | 4,177 | 5,603 | 6,741 | 5,048 |
| <b>50% Exceedance</b>                             | 3,102 | 2,031 | 353   | 257   | 239   | 242   | 385   | 897   | 2,967 | 4,362 | 5,943 | 4,671 |
| <b>60% Exceedance</b>                             | 2,523 | 1,592 | 285   | 223   | 221   | 226   | 273   | 552   | 2,206 | 3,767 | 5,354 | 3,998 |
| <b>70% Exceedance</b>                             | 2,218 | 1,215 | 238   | 209   | 209   | 216   | 236   | 366   | 1,343 | 2,979 | 4,755 | 3,374 |
| <b>80% Exceedance</b>                             | 1,915 | 821   | 215   | 197   | 197   | 205   | 213   | 235   | 638   | 2,250 | 3,945 | 2,809 |
| <b>90% Exceedance</b>                             | 1,546 | 520   | 194   | 190   | 185   | 190   | 191   | 179   | 274   | 1,732 | 3,002 | 1,768 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 3,392 | 2,557 | 1,172 | 720   | 450   | 435   | 915   | 1,616 | 3,329 | 4,728 | 5,989 | 4,642 |
| <b>Wet Water Years (28%)</b>                      | 1,985 | 1,168 | 388   | 202   | 194   | 207   | 235   | 325   | 935   | 2,112 | 3,466 | 2,560 |
| <b>Above Normal Years (14%)</b>                   | 2,521 | 1,861 | 473   | 278   | 217   | 220   | 314   | 609   | 1,941 | 3,063 | 4,605 | 3,664 |
| <b>Below Normal Years (18%)</b>                   | 3,096 | 2,277 | 1,072 | 371   | 328   | 285   | 636   | 1,387 | 3,546 | 4,717 | 5,934 | 4,441 |
| <b>Dry Water Years (24%)</b>                      | 3,963 | 2,863 | 1,686 | 891   | 459   | 431   | 1,002 | 2,116 | 4,652 | 6,253 | 7,509 | 5,743 |
| <b>Critical Water Years (16%)</b>                 | 6,334 | 5,692 | 2,631 | 2,146 | 1,225 | 1,198 | 2,817 | 4,263 | 6,503 | 8,487 | 9,398 | 7,717 |

**Table F.2.5-12-5c. Sacramento River at Collinsville Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| <b>10% Exceedance</b>                             | -5,359 | -5,475 | -4,642 | -5,000 | -1,892 | -1,279 | -1,008 | -1,787 | -1,106 | -964  | -1,104 | -3,482 |
| <b>20% Exceedance</b>                             | -5,901 | -6,238 | -5,003 | -4,081 | -1,209 | -645   | -712   | 641    | 1,859  | 1,572 | 131    | -3,992 |
| <b>30% Exceedance</b>                             | -5,976 | -6,611 | -5,483 | -2,088 | -415   | -173   | -67    | 146    | 1,991  | 1,474 | 152    | -4,169 |
| <b>40% Exceedance</b>                             | -6,277 | -6,211 | -5,336 | -1,038 | -150   | -90    | -15    | -448   | 1,028  | 974   | -197   | -4,472 |
| <b>50% Exceedance</b>                             | -5,739 | -3,409 | -3,749 | -592   | -35    | -55    | -74    | -197   | 333    | 653   | 334    | -3,097 |
| <b>60% Exceedance</b>                             | -65    | -3,615 | -1,721 | -233   | 9      | 12     | -26    | -220   | -217   | 989   | 1,203  | 1,134  |
| <b>70% Exceedance</b>                             | -196   | -3,743 | -856   | -6     | 13     | 20     | -5     | -101   | -790   | 566   | 918    | 759    |
| <b>80% Exceedance</b>                             | -444   | -3,362 | -403   | 6      | 11     | 16     | 13     | -6     | -742   | 29    | 305    | 295    |
| <b>90% Exceedance</b>                             | -688   | -1,750 | -173   | 5      | 3      | 7      | 5      | -9     | -449   | -224  | -347   | -679   |
| <b>Full Simulation Period Average<sup>a</sup></b> | -3,244 | -4,316 | -2,920 | -1,458 | -486   | -307   | -292   | -319   | 167    | 468   | -2     | -2,074 |
| <b>Wet Water Years (28%)</b>                      | -280   | -2,614 | -2,850 | -58    | 7      | -3     | -7     | -135   | -403   | 72    | -33    | 101    |
| <b>Above Normal Years (14%)</b>                   | 262    | -2,591 | -3,068 | -757   | -36    | 4      | 17     | -154   | 8      | 692   | 803    | 1,150  |
| <b>Below Normal Years (18%)</b>                   | -5,578 | -5,882 | -2,289 | -1,312 | -397   | -142   | -100   | 137    | 646    | 835   | -61    | -3,936 |
| <b>Dry Water Years (24%)</b>                      | -5,789 | -5,451 | -2,800 | -2,703 | -793   | -410   | -120   | 230    | 1,400  | 1,173 | 11     | -4,196 |
| <b>Critical Water Years (16%)</b>                 | -5,407 | -5,522 | -3,856 | -2,819 | -1,381 | -1,145 | -1,538 | -2,120 | -1,084 | -506  | -602   | -3,425 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-12-6a. Sacramento River at Collinsville Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,181 | 16,950 | 7,751 | 1,818 | 615   | 551 | 1,166 | 4,840 | 11,589 | 17,194 | 19,907 | 19,019 |
| 20% Exceedance                              | 15,616 | 11,425 | 4,273 | 1,051 | 414   | 327 | 556   | 2,607 | 9,092  | 15,789 | 19,396 | 17,907 |
| 30% Exceedance                              | 12,830 | 7,367  | 2,745 | 808   | 276   | 254 | 407   | 1,491 | 6,825  | 14,762 | 18,606 | 17,151 |
| 40% Exceedance                              | 9,346  | 5,330  | 1,594 | 369   | 247   | 238 | 297   | 1,029 | 5,282  | 12,606 | 17,837 | 15,956 |
| 50% Exceedance                              | 7,282  | 4,011  | 972   | 277   | 232   | 227 | 245   | 525   | 3,914  | 11,271 | 16,961 | 14,218 |
| 60% Exceedance                              | 4,918  | 3,239  | 465   | 246   | 218   | 215 | 220   | 331   | 2,420  | 9,078  | 15,672 | 11,225 |
| 70% Exceedance                              | 3,649  | 2,612  | 342   | 216   | 205   | 208 | 208   | 255   | 1,319  | 6,922  | 13,493 | 8,319  |
| 80% Exceedance                              | 2,982  | 1,166  | 253   | 202   | 196   | 199 | 199   | 207   | 507    | 4,633  | 9,510  | 6,556  |
| 90% Exceedance                              | 2,198  | 665    | 206   | 194   | 187   | 186 | 182   | 168   | 223    | 2,880  | 6,899  | 4,483  |
| Full Simulation Period Average <sup>a</sup> | 8,718  | 6,408  | 2,668 | 1,069 | 491   | 349 | 605   | 1,666 | 4,880  | 10,497 | 14,980 | 12,514 |
| Wet Water Years (28%)                       | 3,416  | 2,526  | 1,256 | 205   | 193   | 197 | 199   | 294   | 1,064  | 4,894  | 9,345  | 6,110  |
| Above Normal Years (14%)                    | 5,356  | 3,571  | 1,225 | 301   | 211   | 208 | 229   | 419   | 2,273  | 8,331  | 13,829 | 10,083 |
| Below Normal Years (18%)                    | 8,921  | 5,541  | 2,209 | 560   | 312   | 244 | 312   | 1,231 | 4,984  | 11,596 | 16,745 | 13,586 |
| Dry Water Years (24%)                       | 11,311 | 7,650  | 3,701 | 932   | 357   | 311 | 472   | 1,792 | 6,625  | 13,537 | 18,094 | 16,357 |
| Critical Water Years (16%)                  | 17,583 | 15,543 | 5,645 | 4,034 | 1,657 | 910 | 2,173 | 5,461 | 11,103 | 16,400 | 19,191 | 18,877 |

**Table F.2.5-12-6b. Sacramento River at Collinsville Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10% Exceedance                              | 12,035 | 10,502 | 8,225 | 6,327 | 2,498 | 1,649 | 2,533 | 3,792 | 4,896 | 6,663 | 8,928 | 11,139 |
| 20% Exceedance                              | 10,884 | 10,150 | 7,285 | 4,101 | 1,434 | 881   | 1,672 | 2,575 | 3,932 | 5,615 | 8,036 | 10,447 |
| 30% Exceedance                              | 10,198 | 9,798  | 6,605 | 2,250 | 701   | 469   | 1,035 | 2,432 | 3,510 | 4,895 | 7,638 | 10,106 |
| 40% Exceedance                              | 9,769  | 8,664  | 5,820 | 1,481 | 396   | 362   | 719   | 2,178 | 3,217 | 4,608 | 6,738 | 9,453  |
| 50% Exceedance                              | 8,584  | 5,447  | 3,768 | 877   | 278   | 299   | 476   | 1,442 | 2,627 | 3,691 | 5,550 | 8,410  |
| 60% Exceedance                              | 2,611  | 5,127  | 2,077 | 406   | 211   | 215   | 321   | 904   | 2,493 | 2,750 | 4,224 | 2,875  |
| 70% Exceedance                              | 2,439  | 4,795  | 991   | 215   | 196   | 196   | 240   | 520   | 2,249 | 2,525 | 3,940 | 2,707  |
| 80% Exceedance                              | 2,356  | 4,070  | 579   | 190   | 186   | 189   | 201   | 254   | 1,362 | 2,276 | 3,791 | 2,612  |
| 90% Exceedance                              | 2,218  | 2,299  | 369   | 184   | 183   | 183   | 185   | 191   | 729   | 2,023 | 3,613 | 2,519  |
| Full Simulation Period Average <sup>a</sup> | 6,726  | 6,696  | 4,072 | 2,102 | 883   | 684   | 997   | 1,786 | 2,978 | 4,024 | 5,862 | 6,848  |
| Wet Water Years (28%)                       | 2,274  | 3,767  | 3,256 | 246   | 187   | 211   | 257   | 532   | 1,345 | 2,105 | 3,664 | 2,525  |
| Above Normal Years (14%)                    | 2,285  | 4,308  | 3,597 | 1,030 | 253   | 216   | 318   | 916   | 1,925 | 2,441 | 3,866 | 2,674  |
| Below Normal Years (18%)                    | 8,768  | 7,838  | 3,266 | 1,737 | 701   | 421   | 781   | 1,526 | 2,969 | 3,807 | 5,829 | 8,622  |
| Dry Water Years (24%)                       | 9,821  | 8,339  | 4,492 | 3,328 | 1,120 | 828   | 1,172 | 2,033 | 3,361 | 5,141 | 7,586 | 10,084 |
| Critical Water Years (16%)                  | 12,073 | 10,554 | 6,367 | 4,861 | 2,500 | 2,003 | 2,865 | 4,665 | 6,192 | 7,333 | 8,909 | 11,214 |

**Table F.2.5-12-6c. Sacramento River at Collinsville Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|
| 10% Exceedance                              | -5,146 | -6,448 | 475   | 4,509 | 1,882 | 1,098 | 1,367 | -1,048 | -6,693 | -10,531 | -10,980 | -7,881 |
| 20% Exceedance                              | -4,732 | -1,275 | 3,013 | 3,051 | 1,019 | 554   | 1,115 | -32    | -5,160 | -10,174 | -11,360 | -7,460 |
| 30% Exceedance                              | -2,632 | 2,432  | 3,860 | 1,442 | 425   | 216   | 628   | 941    | -3,315 | -9,867  | -10,968 | -7,045 |
| 40% Exceedance                              | 423    | 3,334  | 4,226 | 1,112 | 149   | 124   | 421   | 1,149  | -2,065 | -7,999  | -11,099 | -6,503 |
| 50% Exceedance                              | 1,302  | 1,437  | 2,796 | 600   | 46    | 72    | 231   | 917    | -1,286 | -7,580  | -11,411 | -5,808 |
| 60% Exceedance                              | -2,306 | 1,888  | 1,611 | 160   | -7    | 0     | 101   | 572    | 73     | -6,328  | -11,448 | -8,350 |
| 70% Exceedance                              | -1,210 | 2,183  | 649   | -1    | -9    | -12   | 33    | 265    | 930    | -4,397  | -9,553  | -5,612 |
| 80% Exceedance                              | -626   | 2,904  | 325   | -11   | -10   | -10   | 3     | 48     | 856    | -2,357  | -5,719  | -3,944 |
| 90% Exceedance                              | 20     | 1,634  | 163   | -9    | -4    | -3    | 3     | 23     | 506    | -857    | -3,286  | -1,964 |
| Full Simulation Period Average <sup>a</sup> | -1,992 | 289    | 1,404 | 1,033 | 392   | 336   | 392   | 120    | -1,902 | -6,474  | -9,117  | -5,666 |
| Wet Water Years (28%)                       | -1,143 | 1,241  | 2,000 | 41    | -6    | 14    | 58    | 238    | 281    | -2,789  | -5,681  | -3,585 |
| Above Normal Years (14%)                    | -3,071 | 737    | 2,372 | 729   | 42    | 8     | 89    | 497    | -349   | -5,890  | -9,963  | -7,410 |
| Below Normal Years (18%)                    | -153   | 2,298  | 1,057 | 1,178 | 389   | 177   | 469   | 294    | -2,015 | -7,789  | -10,916 | -4,963 |
| Dry Water Years (24%)                       | -1,490 | 689    | 791   | 2,396 | 762   | 517   | 700   | 241    | -3,264 | -8,397  | -10,508 | -6,273 |
| Critical Water Years (16%)                  | -5,509 | -4,989 | 721   | 827   | 844   | 1,093 | 692   | -796   | -4,911 | -9,067  | -10,283 | -7,663 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-12-7a. Sacramento River at Collinsville Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,181 | 16,950 | 7,751 | 1,818 | 615   | 551 | 1,166 | 4,840 | 11,589 | 17,194 | 19,907 | 19,019 |
| 20% Exceedance                              | 15,616 | 11,425 | 4,273 | 1,051 | 414   | 327 | 556   | 2,607 | 9,092  | 15,789 | 19,396 | 17,907 |
| 30% Exceedance                              | 12,830 | 7,367  | 2,745 | 808   | 276   | 254 | 407   | 1,491 | 6,825  | 14,762 | 18,606 | 17,151 |
| 40% Exceedance                              | 9,346  | 5,330  | 1,594 | 369   | 247   | 238 | 297   | 1,029 | 5,282  | 12,606 | 17,837 | 15,956 |
| 50% Exceedance                              | 7,282  | 4,011  | 972   | 277   | 232   | 227 | 245   | 525   | 3,914  | 11,271 | 16,961 | 14,218 |
| 60% Exceedance                              | 4,918  | 3,239  | 465   | 246   | 218   | 215 | 220   | 331   | 2,420  | 9,078  | 15,672 | 11,225 |
| 70% Exceedance                              | 3,649  | 2,612  | 342   | 216   | 205   | 208 | 208   | 255   | 1,319  | 6,922  | 13,493 | 8,319  |
| 80% Exceedance                              | 2,982  | 1,166  | 253   | 202   | 196   | 199 | 199   | 207   | 507    | 4,633  | 9,510  | 6,556  |
| 90% Exceedance                              | 2,198  | 665    | 206   | 194   | 187   | 186 | 182   | 168   | 223    | 2,880  | 6,899  | 4,483  |
| Full Simulation Period Average <sup>a</sup> | 8,718  | 6,408  | 2,668 | 1,069 | 491   | 349 | 605   | 1,666 | 4,880  | 10,497 | 14,980 | 12,514 |
| Wet Water Years (28%)                       | 3,416  | 2,526  | 1,256 | 205   | 193   | 197 | 199   | 294   | 1,064  | 4,894  | 9,345  | 6,110  |
| Above Normal Years (14%)                    | 5,356  | 3,571  | 1,225 | 301   | 211   | 208 | 229   | 419   | 2,273  | 8,331  | 13,829 | 10,083 |
| Below Normal Years (18%)                    | 8,921  | 5,541  | 2,209 | 560   | 312   | 244 | 312   | 1,231 | 4,984  | 11,596 | 16,745 | 13,586 |
| Dry Water Years (24%)                       | 11,311 | 7,650  | 3,701 | 932   | 357   | 311 | 472   | 1,792 | 6,625  | 13,537 | 18,094 | 16,357 |
| Critical Water Years (16%)                  | 17,583 | 15,543 | 5,645 | 4,034 | 1,657 | 910 | 2,173 | 5,461 | 11,103 | 16,400 | 19,191 | 18,877 |

**Table F.2.5-12-7b. Sacramento River at Collinsville Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10% Exceedance                              | 12,064 | 10,629 | 7,862 | 6,276 | 2,685 | 1,556 | 2,413 | 3,816 | 4,887 | 6,615 | 8,907 | 11,147 |
| 20% Exceedance                              | 10,917 | 10,199 | 7,188 | 4,198 | 1,433 | 954   | 1,392 | 2,579 | 4,043 | 5,577 | 8,124 | 10,480 |
| 30% Exceedance                              | 10,273 | 9,751  | 6,545 | 2,268 | 685   | 415   | 1,026 | 2,445 | 3,572 | 4,945 | 7,432 | 10,071 |
| 40% Exceedance                              | 9,496  | 8,513  | 5,896 | 1,473 | 395   | 329   | 589   | 1,883 | 3,130 | 4,654 | 6,719 | 9,556  |
| 50% Exceedance                              | 8,905  | 5,470  | 3,743 | 970   | 279   | 272   | 439   | 1,376 | 2,657 | 3,724 | 5,481 | 8,405  |
| 60% Exceedance                              | 2,614  | 5,104  | 2,084 | 415   | 211   | 216   | 300   | 900   | 2,500 | 2,778 | 4,210 | 2,852  |
| 70% Exceedance                              | 2,437  | 4,720  | 979   | 215   | 196   | 197   | 241   | 532   | 2,262 | 2,446 | 3,957 | 2,707  |
| 80% Exceedance                              | 2,378  | 4,068  | 597   | 190   | 186   | 190   | 200   | 255   | 1,350 | 2,239 | 3,761 | 2,603  |
| 90% Exceedance                              | 2,233  | 2,285  | 362   | 184   | 183   | 183   | 186   | 191   | 738   | 1,956 | 3,519 | 2,506  |
| Full Simulation Period Average <sup>a</sup> | 6,731  | 6,704  | 4,059 | 2,130 | 936   | 647   | 940   | 1,755 | 2,997 | 4,011 | 5,832 | 6,840  |
| Wet Water Years (28%)                       | 2,278  | 3,758  | 3,255 | 254   | 188   | 210   | 252   | 532   | 1,360 | 2,082 | 3,647 | 2,517  |
| Above Normal Years (14%)                    | 2,289  | 4,298  | 3,511 | 1,033 | 254   | 216   | 272   | 821   | 1,959 | 2,393 | 3,816 | 2,656  |
| Below Normal Years (18%)                    | 8,727  | 7,805  | 3,281 | 1,749 | 714   | 364   | 681   | 1,513 | 3,004 | 3,833 | 5,768 | 8,594  |
| Dry Water Years (24%)                       | 9,834  | 8,345  | 4,411 | 3,393 | 1,150 | 714   | 1,045 | 1,965 | 3,376 | 5,145 | 7,555 | 10,090 |
| Critical Water Years (16%)                  | 12,129 | 10,663 | 6,478 | 4,910 | 2,772 | 2,004 | 2,866 | 4,669 | 6,194 | 7,300 | 8,907 | 11,217 |

**Table F.2.5-12-7c. Sacramento River at Collinsville Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|
| 10% Exceedance                              | -5,117 | -6,321 | 112   | 4,458 | 2,070 | 1,004 | 1,247 | -1,024 | -6,702 | -10,579 | -11,001 | -7,872 |
| 20% Exceedance                              | -4,699 | -1,226 | 2,916 | 3,147 | 1,019 | 627   | 836   | -28    | -5,049 | -10,212 | -11,272 | -7,427 |
| 30% Exceedance                              | -2,557 | 2,384  | 3,800 | 1,460 | 410   | 161   | 619   | 954    | -3,253 | -9,817  | -11,174 | -7,080 |
| 40% Exceedance                              | 150    | 3,183  | 4,302 | 1,104 | 148   | 91    | 292   | 854    | -2,152 | -7,953  | -11,118 | -6,400 |
| 50% Exceedance                              | 1,623  | 1,460  | 2,771 | 692   | 47    | 45    | 194   | 851    | -1,256 | -7,547  | -11,480 | -5,812 |
| 60% Exceedance                              | -2,304 | 1,865  | 1,619 | 169   | -6    | 1     | 80    | 569    | 80     | -6,300  | -11,462 | -8,373 |
| 70% Exceedance                              | -1,212 | 2,108  | 637   | -1    | -9    | -11   | 34    | 277    | 943    | -4,476  | -9,535  | -5,612 |
| 80% Exceedance                              | -604   | 2,902  | 344   | -11   | -10   | -9    | 1     | 49     | 843    | -2,394  | -5,749  | -3,953 |
| 90% Exceedance                              | 35     | 1,620  | 156   | -9    | -4    | -3    | 4     | 23     | 514    | -924    | -3,379  | -1,977 |
| Full Simulation Period Average <sup>a</sup> | -1,986 | 296    | 1,391 | 1,061 | 445   | 298   | 336   | 88     | -1,883 | -6,486  | -9,148  | -5,674 |
| Wet Water Years (28%)                       | -1,139 | 1,232  | 1,999 | 49    | -5    | 13    | 53    | 237    | 295    | -2,813  | -5,697  | -3,593 |
| Above Normal Years (14%)                    | -3,067 | 727    | 2,285 | 731   | 42    | 9     | 44    | 401    | -314   | -5,938  | -10,013 | -7,428 |
| Below Normal Years (18%)                    | -194   | 2,264  | 1,072 | 1,189 | 402   | 120   | 369   | 282    | -1,980 | -7,763  | -10,977 | -4,992 |
| Dry Water Years (24%)                       | -1,477 | 696    | 710   | 2,460 | 793   | 403   | 573   | 173    | -3,249 | -8,392  | -10,540 | -6,267 |
| Critical Water Years (16%)                  | -5,453 | -4,880 | 833   | 876   | 1,115 | 1,093 | 693   | -792   | -4,909 | -9,100  | -10,284 | -7,660 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-12-8a. Sacramento River at Collinsville Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,181 | 16,950 | 7,751 | 1,818 | 615   | 551 | 1,166 | 4,840 | 11,589 | 17,194 | 19,907 | 19,019 |
| 20% Exceedance                              | 15,616 | 11,425 | 4,273 | 1,051 | 414   | 327 | 556   | 2,607 | 9,092  | 15,789 | 19,396 | 17,907 |
| 30% Exceedance                              | 12,830 | 7,367  | 2,745 | 808   | 276   | 254 | 407   | 1,491 | 6,825  | 14,762 | 18,606 | 17,151 |
| 40% Exceedance                              | 9,346  | 5,330  | 1,594 | 369   | 247   | 238 | 297   | 1,029 | 5,282  | 12,606 | 17,837 | 15,956 |
| 50% Exceedance                              | 7,282  | 4,011  | 972   | 277   | 232   | 227 | 245   | 525   | 3,914  | 11,271 | 16,961 | 14,218 |
| 60% Exceedance                              | 4,918  | 3,239  | 465   | 246   | 218   | 215 | 220   | 331   | 2,420  | 9,078  | 15,672 | 11,225 |
| 70% Exceedance                              | 3,649  | 2,612  | 342   | 216   | 205   | 208 | 208   | 255   | 1,319  | 6,922  | 13,493 | 8,319  |
| 80% Exceedance                              | 2,982  | 1,166  | 253   | 202   | 196   | 199 | 199   | 207   | 507    | 4,633  | 9,510  | 6,556  |
| 90% Exceedance                              | 2,198  | 665    | 206   | 194   | 187   | 186 | 182   | 168   | 223    | 2,880  | 6,899  | 4,483  |
| Full Simulation Period Average <sup>a</sup> | 8,718  | 6,408  | 2,668 | 1,069 | 491   | 349 | 605   | 1,666 | 4,880  | 10,497 | 14,980 | 12,514 |
| Wet Water Years (28%)                       | 3,416  | 2,526  | 1,256 | 205   | 193   | 197 | 199   | 294   | 1,064  | 4,894  | 9,345  | 6,110  |
| Above Normal Years (14%)                    | 5,356  | 3,571  | 1,225 | 301   | 211   | 208 | 229   | 419   | 2,273  | 8,331  | 13,829 | 10,083 |
| Below Normal Years (18%)                    | 8,921  | 5,541  | 2,209 | 560   | 312   | 244 | 312   | 1,231 | 4,984  | 11,596 | 16,745 | 13,586 |
| Dry Water Years (24%)                       | 11,311 | 7,650  | 3,701 | 932   | 357   | 311 | 472   | 1,792 | 6,625  | 13,537 | 18,094 | 16,357 |
| Critical Water Years (16%)                  | 17,583 | 15,543 | 5,645 | 4,034 | 1,657 | 910 | 2,173 | 5,461 | 11,103 | 16,400 | 19,191 | 18,877 |

**Table F.2.5-12-8b. Sacramento River at Collinsville Salinity, Alt2woTUCPAILVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10% Exceedance                              | 12,045 | 10,797 | 8,001 | 6,259 | 2,655 | 1,477 | 2,171 | 3,517 | 4,495 | 6,583 | 8,854 | 11,142 |
| 20% Exceedance                              | 10,793 | 10,214 | 7,105 | 4,505 | 1,440 | 943   | 1,236 | 2,299 | 3,841 | 5,557 | 8,118 | 10,476 |
| 30% Exceedance                              | 10,257 | 9,761  | 6,569 | 2,284 | 676   | 411   | 773   | 2,049 | 3,470 | 4,986 | 7,485 | 10,071 |
| 40% Exceedance                              | 9,563  | 8,535  | 5,844 | 1,439 | 406   | 332   | 496   | 1,606 | 3,042 | 4,704 | 6,660 | 9,558  |
| 50% Exceedance                              | 8,712  | 5,473  | 3,811 | 906   | 280   | 273   | 353   | 1,018 | 2,718 | 3,814 | 5,483 | 8,396  |
| 60% Exceedance                              | 2,612  | 5,088  | 2,080 | 435   | 211   | 216   | 271   | 709   | 2,475 | 2,691 | 4,188 | 2,852  |
| 70% Exceedance                              | 2,438  | 4,702  | 974   | 215   | 196   | 197   | 235   | 482   | 2,109 | 2,422 | 3,870 | 2,695  |
| 80% Exceedance                              | 2,382  | 4,071  | 590   | 190   | 186   | 190   | 200   | 242   | 1,381 | 2,238 | 3,752 | 2,604  |
| 90% Exceedance                              | 2,235  | 2,252  | 347   | 184   | 183   | 183   | 186   | 191   | 769   | 2,019 | 3,454 | 2,500  |
| Full Simulation Period Average <sup>a</sup> | 6,711  | 6,732  | 4,049 | 2,135 | 954   | 640   | 831   | 1,511 | 2,882 | 3,998 | 5,804 | 6,806  |
| Wet Water Years (28%)                       | 2,274  | 3,759  | 3,252 | 256   | 188   | 211   | 250   | 516   | 1,359 | 2,075 | 3,631 | 2,515  |
| Above Normal Years (14%)                    | 2,293  | 4,292  | 3,498 | 1,025 | 254   | 216   | 255   | 652   | 1,901 | 2,376 | 3,753 | 2,656  |
| Below Normal Years (18%)                    | 8,712  | 7,937  | 3,234 | 1,719 | 715   | 362   | 506   | 1,161 | 2,901 | 3,836 | 5,728 | 8,451  |
| Dry Water Years (24%)                       | 9,792  | 8,210  | 4,380 | 3,307 | 1,168 | 700   | 863   | 1,658 | 3,236 | 5,173 | 7,559 | 10,080 |
| Critical Water Years (16%)                  | 12,080 | 10,909 | 6,536 | 5,101 | 2,858 | 1,987 | 2,673 | 4,176 | 5,855 | 7,203 | 8,853 | 11,183 |

**Table F.2.5-12-8c. Sacramento River at Collinsville Salinity, Alt2woTUCPAILVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|--------|
| 10% Exceedance                              | -5,136 | -6,153 | 251   | 4,442 | 2,039 | 925   | 1,005 | -1,324 | -7,095 | -10,611 | -11,053 | -7,877 |
| 20% Exceedance                              | -4,823 | -1,211 | 2,832 | 3,454 | 1,026 | 616   | 680   | -309   | -5,251 | -10,232 | -11,278 | -7,431 |
| 30% Exceedance                              | -2,572 | 2,395  | 3,825 | 1,475 | 400   | 158   | 366   | 558    | -3,355 | -9,776  | -11,121 | -7,080 |
| 40% Exceedance                              | 218    | 3,205  | 4,250 | 1,071 | 159   | 94    | 199   | 577    | -2,240 | -7,902  | -11,177 | -6,397 |
| 50% Exceedance                              | 1,430  | 1,462  | 2,838 | 629   | 48    | 46    | 109   | 493    | -1,196 | -7,458  | -11,478 | -5,822 |
| 60% Exceedance                              | -2,306 | 1,849  | 1,615 | 189   | -7    | 1     | 51    | 378    | 55     | -6,387  | -11,484 | -8,373 |
| 70% Exceedance                              | -1,211 | 2,090  | 632   | -2    | -9    | -11   | 28    | 227    | 791    | -4,500  | -9,623  | -5,624 |
| 80% Exceedance                              | -600   | 2,905  | 337   | -11   | -10   | -9    | 1     | 35     | 874    | -2,395  | -5,758  | -3,953 |
| 90% Exceedance                              | 37     | 1,587  | 141   | -9    | -4    | -3    | 4     | 23     | 546    | -861    | -3,445  | -1,983 |
| Full Simulation Period Average <sup>a</sup> | -2,007 | 324    | 1,381 | 1,065 | 464   | 292   | 227   | -156   | -1,997 | -6,499  | -9,176  | -5,708 |
| Wet Water Years (28%)                       | -1,142 | 1,233  | 1,996 | 52    | -5    | 14    | 51    | 222    | 295    | -2,819  | -5,714  | -3,595 |
| Above Normal Years (14%)                    | -3,062 | 721    | 2,273 | 724   | 42    | 8     | 26    | 233    | -372   | -5,955  | -10,076 | -7,428 |
| Below Normal Years (18%)                    | -210   | 2,397  | 1,025 | 1,159 | 403   | 118   | 194   | -70    | -2,083 | -7,760  | -11,017 | -5,135 |
| Dry Water Years (24%)                       | -1,518 | 561    | 679   | 2,375 | 811   | 388   | 391   | -134   | -3,389 | -8,364  | -10,535 | -6,277 |
| Critical Water Years (16%)                  | -5,503 | -4,634 | 891   | 1,067 | 1,201 | 1,076 | 500   | -1,285 | -5,248 | -9,197  | -10,338 | -7,694 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-12-9a. Sacramento River at Collinsville Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,181 | 16,950 | 7,751 | 1,818 | 615   | 551 | 1,166 | 4,840 | 11,589 | 17,194 | 19,907 | 19,019 |
| 20% Exceedance                              | 15,616 | 11,425 | 4,273 | 1,051 | 414   | 327 | 556   | 2,607 | 9,092  | 15,789 | 19,396 | 17,907 |
| 30% Exceedance                              | 12,830 | 7,367  | 2,745 | 808   | 276   | 254 | 407   | 1,491 | 6,825  | 14,762 | 18,606 | 17,151 |
| 40% Exceedance                              | 9,346  | 5,330  | 1,594 | 369   | 247   | 238 | 297   | 1,029 | 5,282  | 12,606 | 17,837 | 15,956 |
| 50% Exceedance                              | 7,282  | 4,011  | 972   | 277   | 232   | 227 | 245   | 525   | 3,914  | 11,271 | 16,961 | 14,218 |
| 60% Exceedance                              | 4,918  | 3,239  | 465   | 246   | 218   | 215 | 220   | 331   | 2,420  | 9,078  | 15,672 | 11,225 |
| 70% Exceedance                              | 3,649  | 2,612  | 342   | 216   | 205   | 208 | 208   | 255   | 1,319  | 6,922  | 13,493 | 8,319  |
| 80% Exceedance                              | 2,982  | 1,166  | 253   | 202   | 196   | 199 | 199   | 207   | 507    | 4,633  | 9,510  | 6,556  |
| 90% Exceedance                              | 2,198  | 665    | 206   | 194   | 187   | 186 | 182   | 168   | 223    | 2,880  | 6,899  | 4,483  |
| Full Simulation Period Average <sup>a</sup> | 8,718  | 6,408  | 2,668 | 1,069 | 491   | 349 | 605   | 1,666 | 4,880  | 10,497 | 14,980 | 12,514 |
| Wet Water Years (28%)                       | 3,416  | 2,526  | 1,256 | 205   | 193   | 197 | 199   | 294   | 1,064  | 4,894  | 9,345  | 6,110  |
| Above Normal Years (14%)                    | 5,356  | 3,571  | 1,225 | 301   | 211   | 208 | 229   | 419   | 2,273  | 8,331  | 13,829 | 10,083 |
| Below Normal Years (18%)                    | 8,921  | 5,541  | 2,209 | 560   | 312   | 244 | 312   | 1,231 | 4,984  | 11,596 | 16,745 | 13,586 |
| Dry Water Years (24%)                       | 11,311 | 7,650  | 3,701 | 932   | 357   | 311 | 472   | 1,792 | 6,625  | 13,537 | 18,094 | 16,357 |
| Critical Water Years (16%)                  | 17,583 | 15,543 | 5,645 | 4,034 | 1,657 | 910 | 2,173 | 5,461 | 11,103 | 16,400 | 19,191 | 18,877 |

**Table F.2.5-12-9b. Sacramento River at Collinsville Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug   | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| 10% Exceedance                              | 11,453 | 11,015 | 8,101 | 6,033 | 2,497 | 2,268 | 2,964 | 5,345 | 7,927 | 9,133 | 9,759 | 11,099 |
| 20% Exceedance                              | 10,870 | 10,258 | 7,461 | 4,218 | 1,501 | 1,218 | 2,211 | 2,574 | 3,961 | 5,812 | 8,036 | 10,430 |
| 30% Exceedance                              | 10,189 | 9,806  | 6,704 | 2,716 | 685   | 477   | 1,120 | 2,432 | 3,551 | 4,908 | 7,639 | 10,097 |
| 40% Exceedance                              | 9,665  | 8,686  | 5,823 | 1,436 | 419   | 356   | 717   | 2,080 | 3,255 | 4,466 | 6,622 | 9,457  |
| 50% Exceedance                              | 8,544  | 5,449  | 3,742 | 862   | 282   | 299   | 476   | 1,442 | 2,627 | 3,691 | 5,549 | 8,393  |
| 60% Exceedance                              | 2,611  | 5,127  | 2,075 | 403   | 211   | 215   | 322   | 903   | 2,492 | 2,758 | 4,225 | 2,874  |
| 70% Exceedance                              | 2,439  | 4,794  | 998   | 214   | 196   | 195   | 240   | 519   | 2,249 | 2,524 | 3,946 | 2,709  |
| 80% Exceedance                              | 2,355  | 4,071  | 575   | 190   | 186   | 189   | 201   | 254   | 1,362 | 2,276 | 3,790 | 2,613  |
| 90% Exceedance                              | 2,217  | 2,294  | 366   | 184   | 183   | 183   | 185   | 191   | 721   | 2,019 | 3,611 | 2,519  |
| Full Simulation Period Average <sup>a</sup> | 6,670  | 6,769  | 4,092 | 2,040 | 872   | 750   | 1,215 | 2,030 | 3,177 | 4,267 | 6,009 | 6,817  |
| Wet Water Years (28%)                       | 2,274  | 3,767  | 3,253 | 246   | 187   | 211   | 257   | 532   | 1,345 | 2,105 | 3,664 | 2,525  |
| Above Normal Years (14%)                    | 2,282  | 4,307  | 3,599 | 1,028 | 252   | 216   | 317   | 916   | 1,924 | 2,443 | 3,865 | 2,674  |
| Below Normal Years (18%)                    | 8,722  | 7,833  | 3,296 | 1,702 | 694   | 418   | 781   | 1,525 | 2,967 | 3,791 | 5,763 | 8,533  |
| Dry Water Years (24%)                       | 9,821  | 8,329  | 4,552 | 3,382 | 1,123 | 828   | 1,172 | 2,031 | 3,359 | 5,140 | 7,581 | 10,080 |
| Critical Water Years (16%)                  | 11,761 | 11,058 | 6,368 | 4,433 | 2,435 | 2,415 | 4,231 | 6,190 | 7,444 | 8,872 | 9,911 | 11,126 |

**Table F.2.5-12-9c. Sacramento River at Collinsville Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|---------|--------|
| 10% Exceedance                              | -5,728 | -5,935 | 350   | 4,215 | 1,882 | 1,716 | 1,798 | 505   | -3,662 | -8,061 | -10,148 | -7,921 |
| 20% Exceedance                              | -4,746 | -1,167 | 3,188 | 3,168 | 1,086 | 892   | 1,655 | -33   | -5,131 | -9,977 | -11,360 | -7,477 |
| 30% Exceedance                              | -2,641 | 2,439  | 3,959 | 1,907 | 409   | 223   | 713   | 941   | -3,274 | -9,854 | -10,967 | -7,054 |
| 40% Exceedance                              | 320    | 3,356  | 4,229 | 1,067 | 172   | 118   | 420   | 1,050 | -2,027 | -8,141 | -11,215 | -6,498 |
| 50% Exceedance                              | 1,261  | 1,438  | 2,770 | 585   | 50    | 72    | 231   | 917   | -1,286 | -7,581 | -11,412 | -5,825 |
| 60% Exceedance                              | -2,306 | 1,887  | 1,610 | 157   | -7    | 0     | 102   | 572   | 72     | -6,320 | -11,447 | -8,350 |
| 70% Exceedance                              | -1,210 | 2,182  | 656   | -3    | -9    | -12   | 33    | 265   | 930    | -4,398 | -9,547  | -5,610 |
| 80% Exceedance                              | -627   | 2,905  | 322   | -11   | -10   | -10   | 2     | 48    | 855    | -2,357 | -5,719  | -3,944 |
| 90% Exceedance                              | 20     | 1,629  | 160   | -9    | -4    | -3    | 3     | 23    | 498    | -861   | -3,287  | -1,964 |
| Full Simulation Period Average <sup>a</sup> | -2,048 | 361    | 1,423 | 971   | 381   | 401   | 611   | 363   | -1,702 | -6,230 | -8,971  | -5,697 |
| Wet Water Years (28%)                       | -1,143 | 1,241  | 1,997 | 41    | -6    | 14    | 58    | 238   | 280    | -2,790 | -5,681  | -3,585 |
| Above Normal Years (14%)                    | -3,074 | 736    | 2,373 | 727   | 41    | 8     | 89    | 496   | -349   | -5,888 | -9,964  | -7,410 |
| Below Normal Years (18%)                    | -199   | 2,293  | 1,087 | 1,142 | 382   | 174   | 469   | 293   | -2,017 | -7,805 | -10,982 | -5,053 |
| Dry Water Years (24%)                       | -1,490 | 679    | 851   | 2,449 | 765   | 517   | 700   | 240   | -3,266 | -8,398 | -10,514 | -6,277 |
| Critical Water Years (16%)                  | -5,821 | -4,484 | 723   | 399   | 778   | 1,504 | 2,059 | 729   | -3,658 | -7,528 | -9,281  | -7,751 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-12-10a. Sacramento River at Collinsville Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-----|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,181 | 16,950 | 7,751 | 1,818 | 615   | 551 | 1,166 | 4,840 | 11,589 | 17,194 | 19,907 | 19,019 |
| 20% Exceedance                              | 15,616 | 11,425 | 4,273 | 1,051 | 414   | 327 | 556   | 2,607 | 9,092  | 15,789 | 19,396 | 17,907 |
| 30% Exceedance                              | 12,830 | 7,367  | 2,745 | 808   | 276   | 254 | 407   | 1,491 | 6,825  | 14,762 | 18,606 | 17,151 |
| 40% Exceedance                              | 9,346  | 5,330  | 1,594 | 369   | 247   | 238 | 297   | 1,029 | 5,282  | 12,606 | 17,837 | 15,956 |
| 50% Exceedance                              | 7,282  | 4,011  | 972   | 277   | 232   | 227 | 245   | 525   | 3,914  | 11,271 | 16,961 | 14,218 |
| 60% Exceedance                              | 4,918  | 3,239  | 465   | 246   | 218   | 215 | 220   | 331   | 2,420  | 9,078  | 15,672 | 11,225 |
| 70% Exceedance                              | 3,649  | 2,612  | 342   | 216   | 205   | 208 | 208   | 255   | 1,319  | 6,922  | 13,493 | 8,319  |
| 80% Exceedance                              | 2,982  | 1,166  | 253   | 202   | 196   | 199 | 199   | 207   | 507    | 4,633  | 9,510  | 6,556  |
| 90% Exceedance                              | 2,198  | 665    | 206   | 194   | 187   | 186 | 182   | 168   | 223    | 2,880  | 6,899  | 4,483  |
| Full Simulation Period Average <sup>a</sup> | 8,718  | 6,408  | 2,668 | 1,069 | 491   | 349 | 605   | 1,666 | 4,880  | 10,497 | 14,980 | 12,514 |
| Wet Water Years (28%)                       | 3,416  | 2,526  | 1,256 | 205   | 193   | 197 | 199   | 294   | 1,064  | 4,894  | 9,345  | 6,110  |
| Above Normal Years (14%)                    | 5,356  | 3,571  | 1,225 | 301   | 211   | 208 | 229   | 419   | 2,273  | 8,331  | 13,829 | 10,083 |
| Below Normal Years (18%)                    | 8,921  | 5,541  | 2,209 | 560   | 312   | 244 | 312   | 1,231 | 4,984  | 11,596 | 16,745 | 13,586 |
| Dry Water Years (24%)                       | 11,311 | 7,650  | 3,701 | 932   | 357   | 311 | 472   | 1,792 | 6,625  | 13,537 | 18,094 | 16,357 |
| Critical Water Years (16%)                  | 17,583 | 15,543 | 5,645 | 4,034 | 1,657 | 910 | 2,173 | 5,461 | 11,103 | 16,400 | 19,191 | 18,877 |

**Table F.2.5-12-10b. Sacramento River at Collinsville Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul   | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| 10% Exceedance                              | 11,532 | 11,141 | 8,119 | 6,374 | 2,686 | 2,238 | 3,529 | 5,626 | 7,686 | 8,903 | 9,922  | 11,065 |
| 20% Exceedance                              | 10,744 | 10,112 | 7,164 | 4,996 | 1,716 | 1,177 | 2,163 | 2,427 | 4,042 | 5,541 | 7,925  | 10,421 |
| 30% Exceedance                              | 10,164 | 9,741  | 6,585 | 2,663 | 734   | 473   | 1,095 | 2,209 | 3,394 | 5,018 | 7,468  | 9,934  |
| 40% Exceedance                              | 9,698  | 8,723  | 5,986 | 1,399 | 418   | 362   | 664   | 1,800 | 3,149 | 4,629 | 6,938  | 9,520  |
| 50% Exceedance                              | 8,841  | 5,440  | 4,102 | 849   | 274   | 297   | 458   | 1,094 | 2,635 | 3,709 | 5,609  | 7,768  |
| 60% Exceedance                              | 2,587  | 5,208  | 2,007 | 456   | 212   | 215   | 300   | 771   | 2,423 | 2,778 | 4,151  | 2,864  |
| 70% Exceedance                              | 2,414  | 4,958  | 1,095 | 215   | 196   | 195   | 240   | 467   | 2,133 | 2,413 | 3,837  | 2,615  |
| 80% Exceedance                              | 2,359  | 4,183  | 619   | 191   | 186   | 189   | 200   | 241   | 1,379 | 2,221 | 3,640  | 2,514  |
| 90% Exceedance                              | 2,234  | 2,270  | 366   | 184   | 182   | 183   | 186   | 189   | 724   | 1,956 | 3,349  | 2,448  |
| Full Simulation Period Average <sup>a</sup> | 6,636  | 6,873  | 4,092 | 2,178 | 936   | 742   | 1,208 | 1,935 | 3,161 | 4,260 | 5,991  | 6,716  |
| Wet Water Years (28%)                       | 2,264  | 3,782  | 3,238 | 260   | 188   | 210   | 242   | 460   | 1,338 | 2,041 | 3,499  | 2,459  |
| Above Normal Years (14%)                    | 2,260  | 4,451  | 3,540 | 1,036 | 253   | 216   | 297   | 763   | 1,934 | 2,371 | 3,802  | 2,514  |
| Below Normal Years (18%)                    | 8,675  | 8,159  | 3,362 | 1,683 | 725   | 427   | 737   | 1,250 | 2,899 | 3,882 | 5,995  | 8,377  |
| Dry Water Years (24%)                       | 9,752  | 8,314  | 4,486 | 3,594 | 1,252 | 841   | 1,122 | 1,886 | 3,251 | 5,079 | 7,498  | 9,939  |
| Critical Water Years (16%)                  | 11,741 | 11,214 | 6,487 | 4,964 | 2,606 | 2,343 | 4,354 | 6,383 | 7,587 | 8,993 | 10,000 | 11,142 |

**Table F.2.5-12-10c. Sacramento River at Collinsville Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May  | Jun    | Jul     | Aug     | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|------|--------|---------|---------|--------|
| 10% Exceedance                              | -5,649 | -5,809 | 369   | 4,557 | 2,071 | 1,686 | 2,362 | 786  | -3,903 | -8,291  | -9,986  | -7,955 |
| 20% Exceedance                              | -4,872 | -1,313 | 2,891 | 3,945 | 1,301 | 850   | 1,607 | -180 | -5,050 | -10,248 | -11,471 | -7,486 |
| 30% Exceedance                              | -2,666 | 2,374  | 3,840 | 1,854 | 458   | 219   | 688   | 719  | -3,431 | -9,744  | -11,138 | -7,217 |
| 40% Exceedance                              | 352    | 3,393  | 4,391 | 1,030 | 172   | 124   | 367   | 771  | -2,133 | -7,978  | -10,899 | -6,436 |
| 50% Exceedance                              | 1,558  | 1,429  | 3,130 | 572   | 42    | 70    | 214   | 569  | -1,279 | -7,562  | -11,352 | -6,450 |
| 60% Exceedance                              | -2,330 | 1,968  | 1,541 | 210   | -6    | 0     | 80    | 440  | 3      | -6,301  | -11,521 | -8,360 |
| 70% Exceedance                              | -1,235 | 2,346  | 753   | -2    | -9    | -12   | 33    | 212  | 814    | -4,509  | -9,655  | -5,704 |
| 80% Exceedance                              | -622   | 3,017  | 366   | -11   | -9    | -10   | 1     | 35   | 873    | -2,412  | -5,870  | -4,042 |
| 90% Exceedance                              | 36     | 1,605  | 160   | -9    | -5    | -3    | 4     | 20   | 501    | -924    | -3,549  | -2,035 |
| Full Simulation Period Average <sup>a</sup> | -2,082 | 465    | 1,424 | 1,108 | 445   | 394   | 603   | 268  | -1,718 | -6,237  | -8,989  | -5,798 |
| Wet Water Years (28%)                       | -1,152 | 1,256  | 1,982 | 56    | -5    | 13    | 43    | 166  | 273    | -2,854  | -5,845  | -3,651 |
| Above Normal Years (14%)                    | -3,096 | 880    | 2,315 | 734   | 41    | 8     | 69    | 344  | -339   | -5,960  | -10,028 | -7,570 |
| Below Normal Years (18%)                    | -247   | 2,619  | 1,152 | 1,123 | 413   | 183   | 425   | 19   | -2,084 | -7,714  | -10,750 | -5,209 |
| Dry Water Years (24%)                       | -1,559 | 665    | 785   | 2,661 | 895   | 529   | 650   | 94   | -3,374 | -8,458  | -10,596 | -6,418 |
| Critical Water Years (16%)                  | -5,842 | -4,329 | 841   | 930   | 949   | 1,433 | 2,182 | 922  | -3,516 | -7,407  | -9,191  | -7,735 |

<sup>a</sup> Based on the 100-year simulation period.

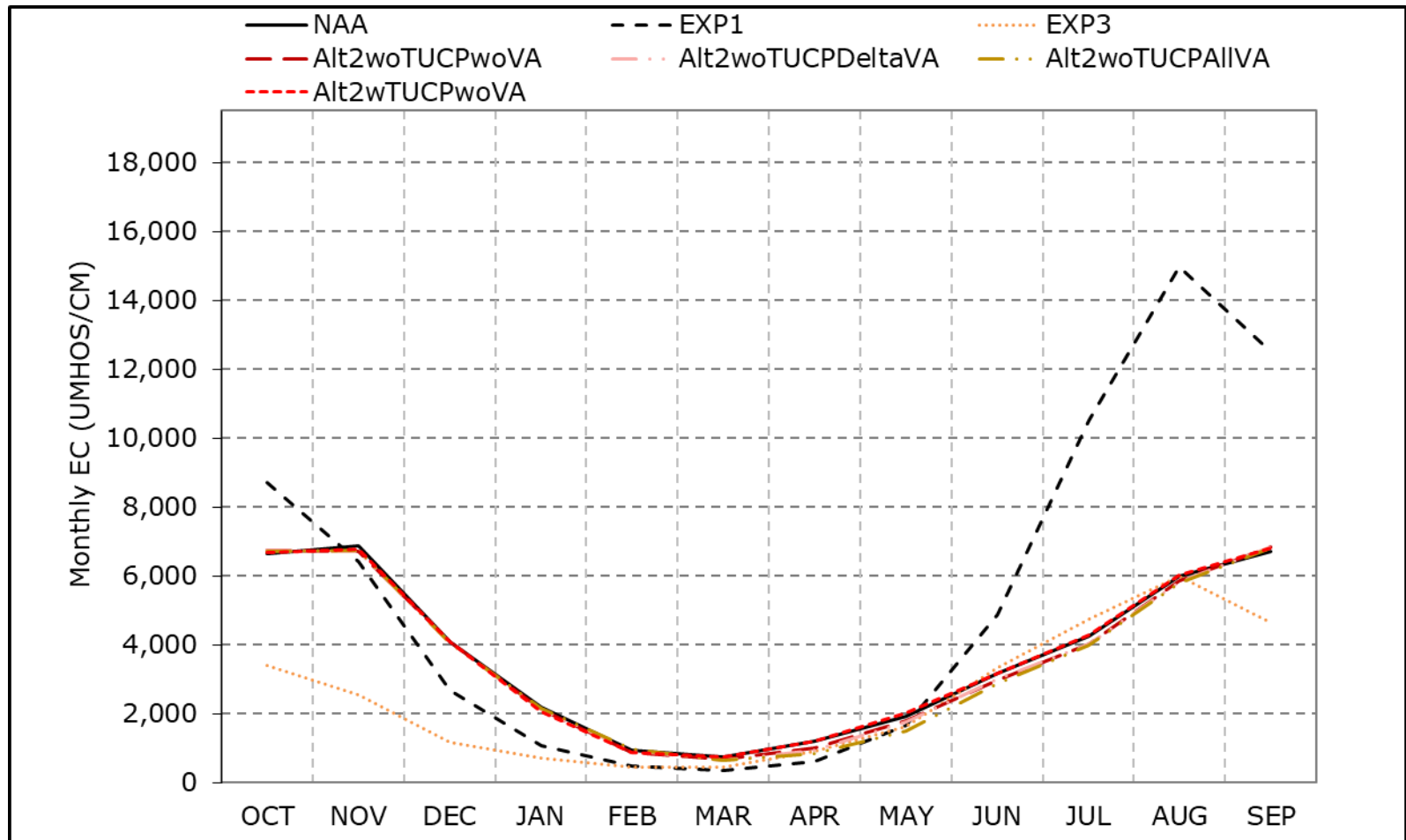
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-12-1. Sacramento River at Collinsville Salinity, Long-Term Average EC**

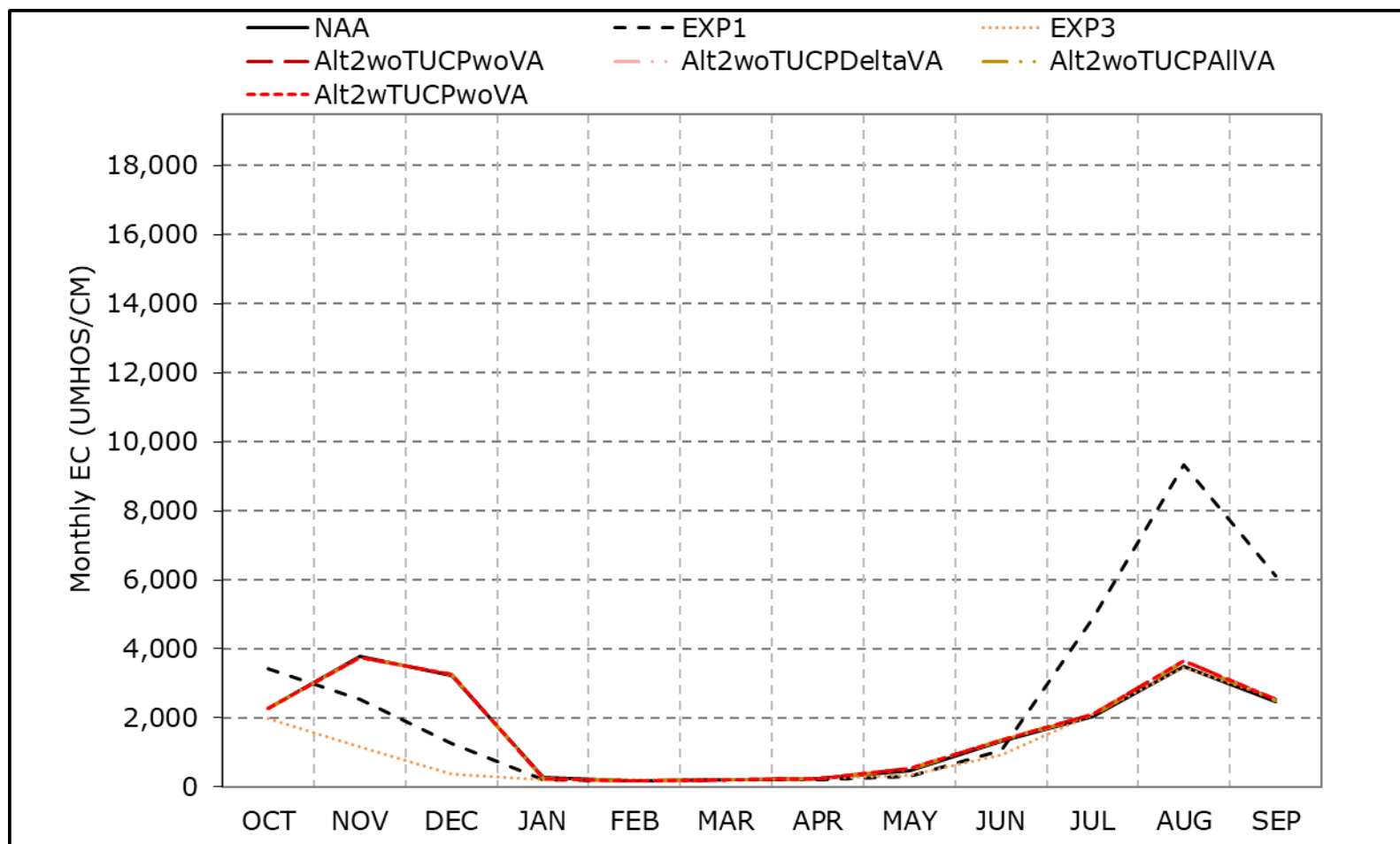


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-2. Sacramento River at Collinsville Salinity, Wet Year Average EC**

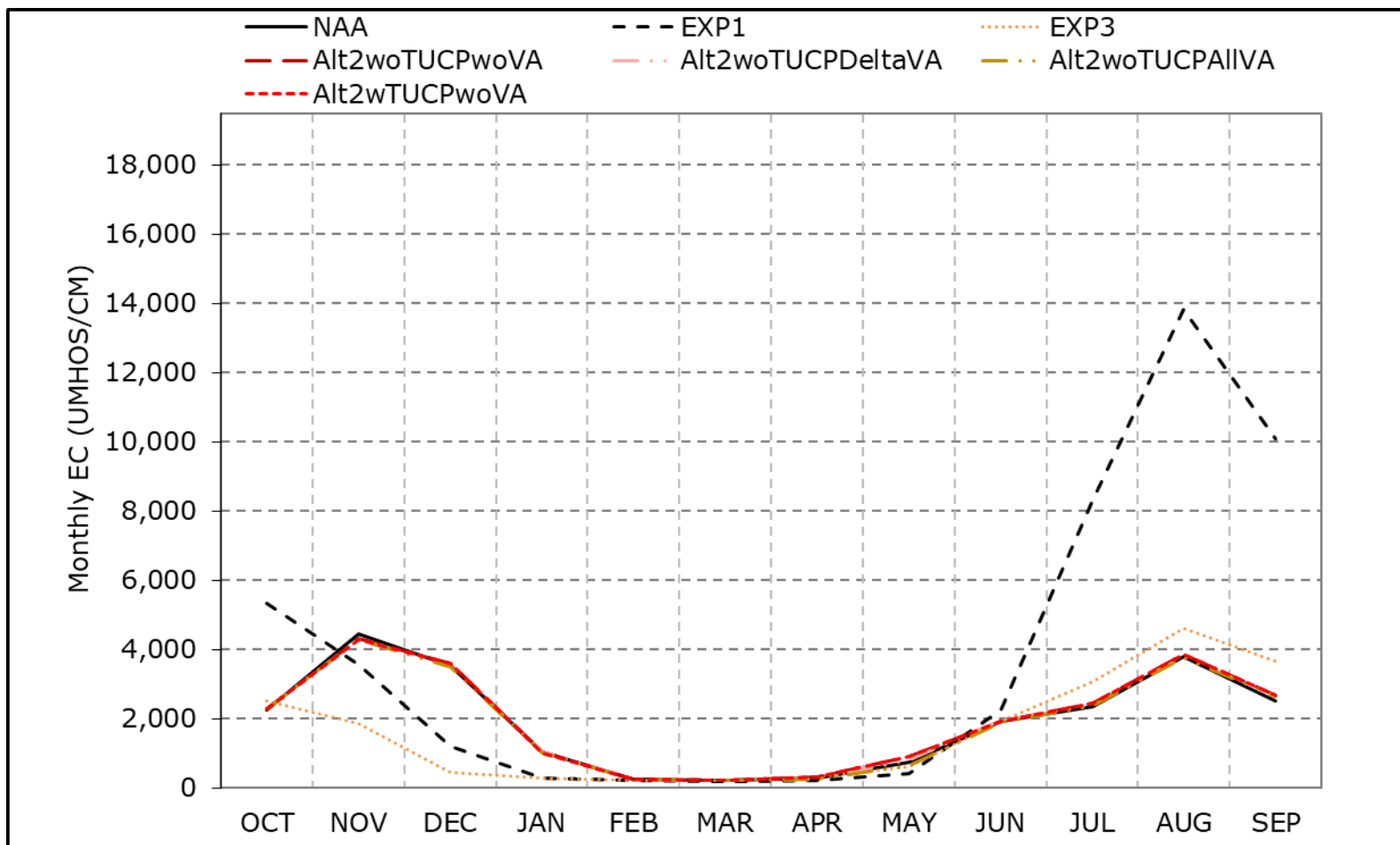


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-3. Sacramento River at Collinsville Salinity, Above Normal Year Average EC**

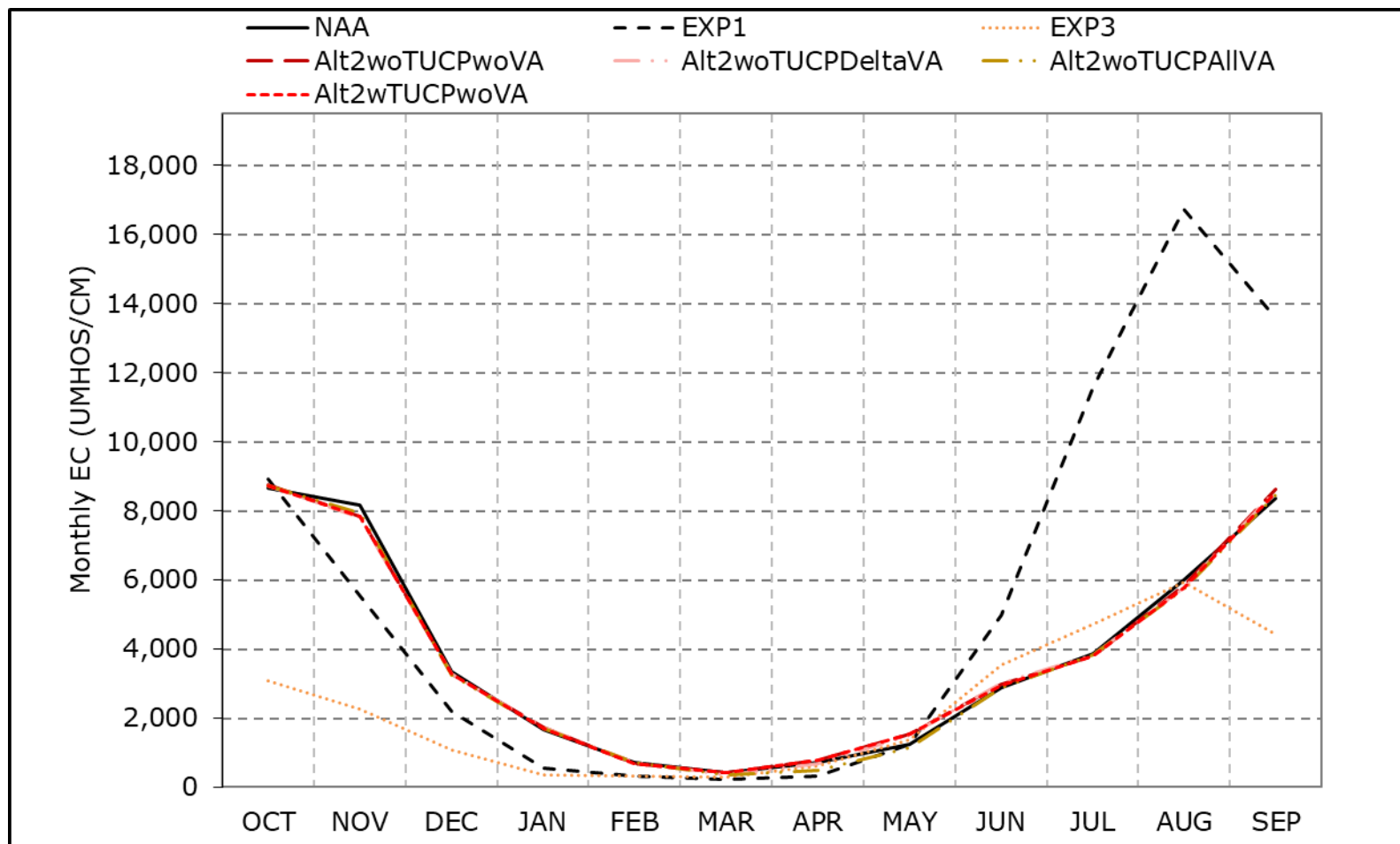


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-4. Sacramento River at Collinsville Salinity, Below Normal Year Average EC**

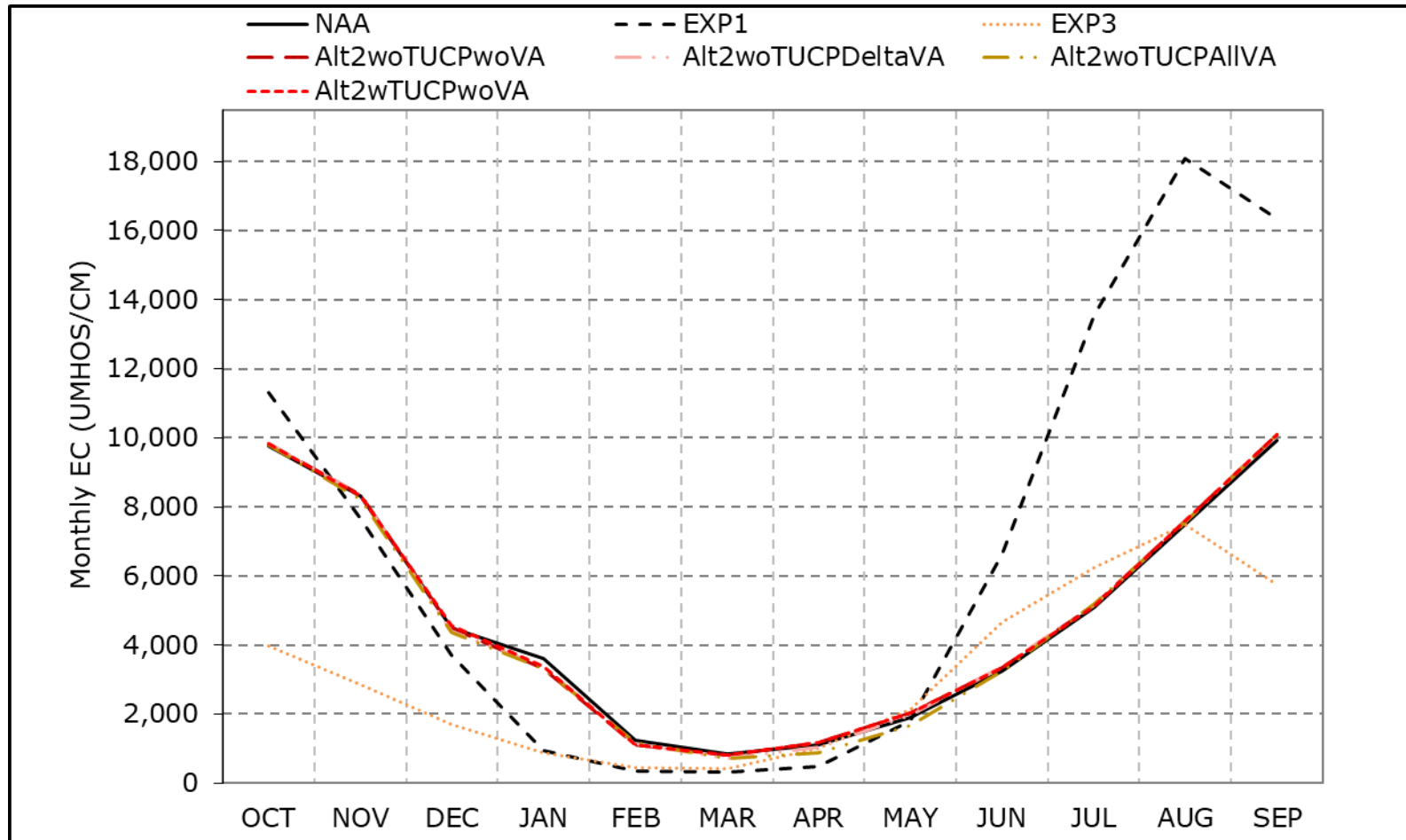


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-5. Sacramento River at Collinsville Salinity, Dry Year Average EC**

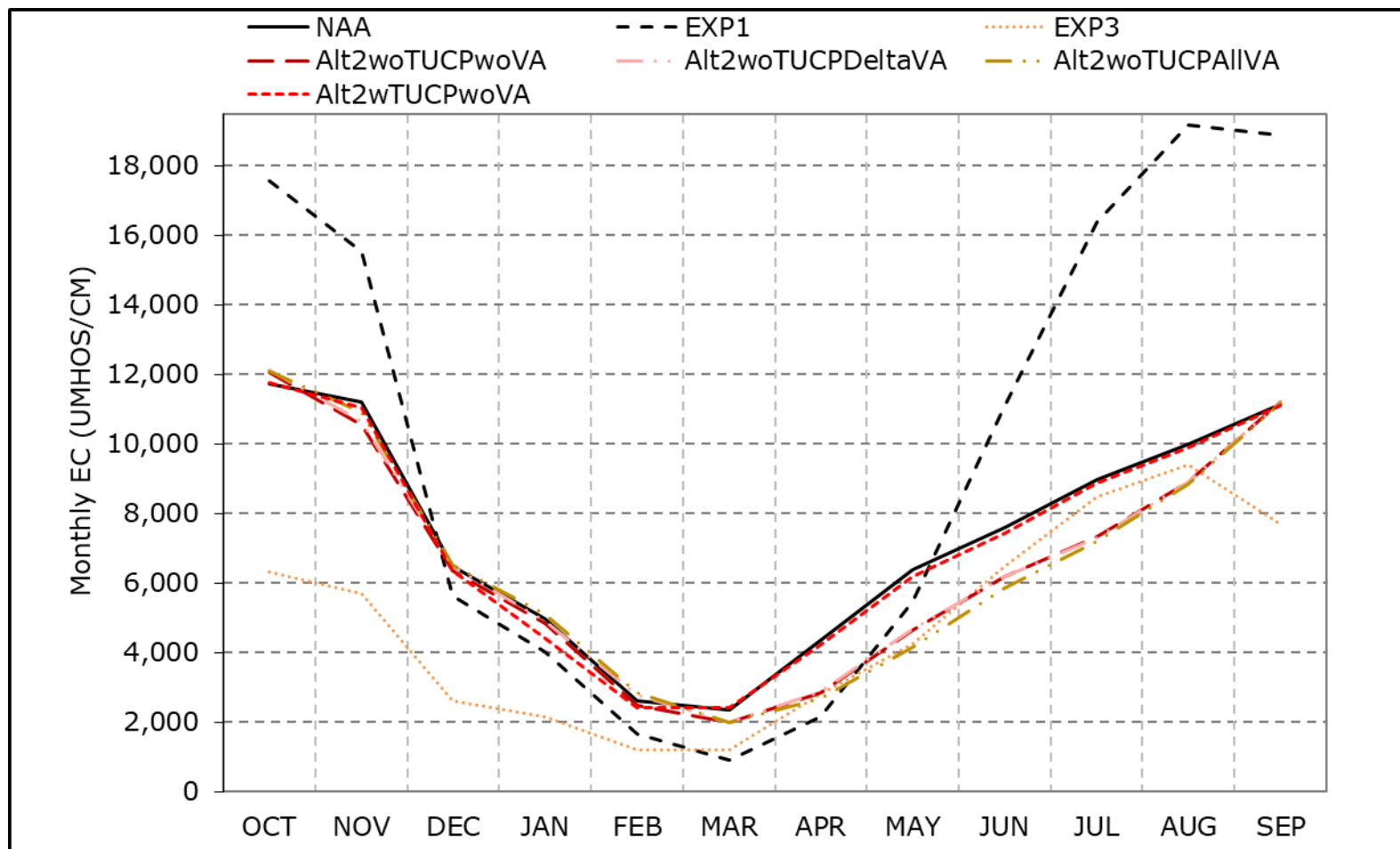


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-6. Sacramento River at Collinsville Salinity, Critical Year Average EC**

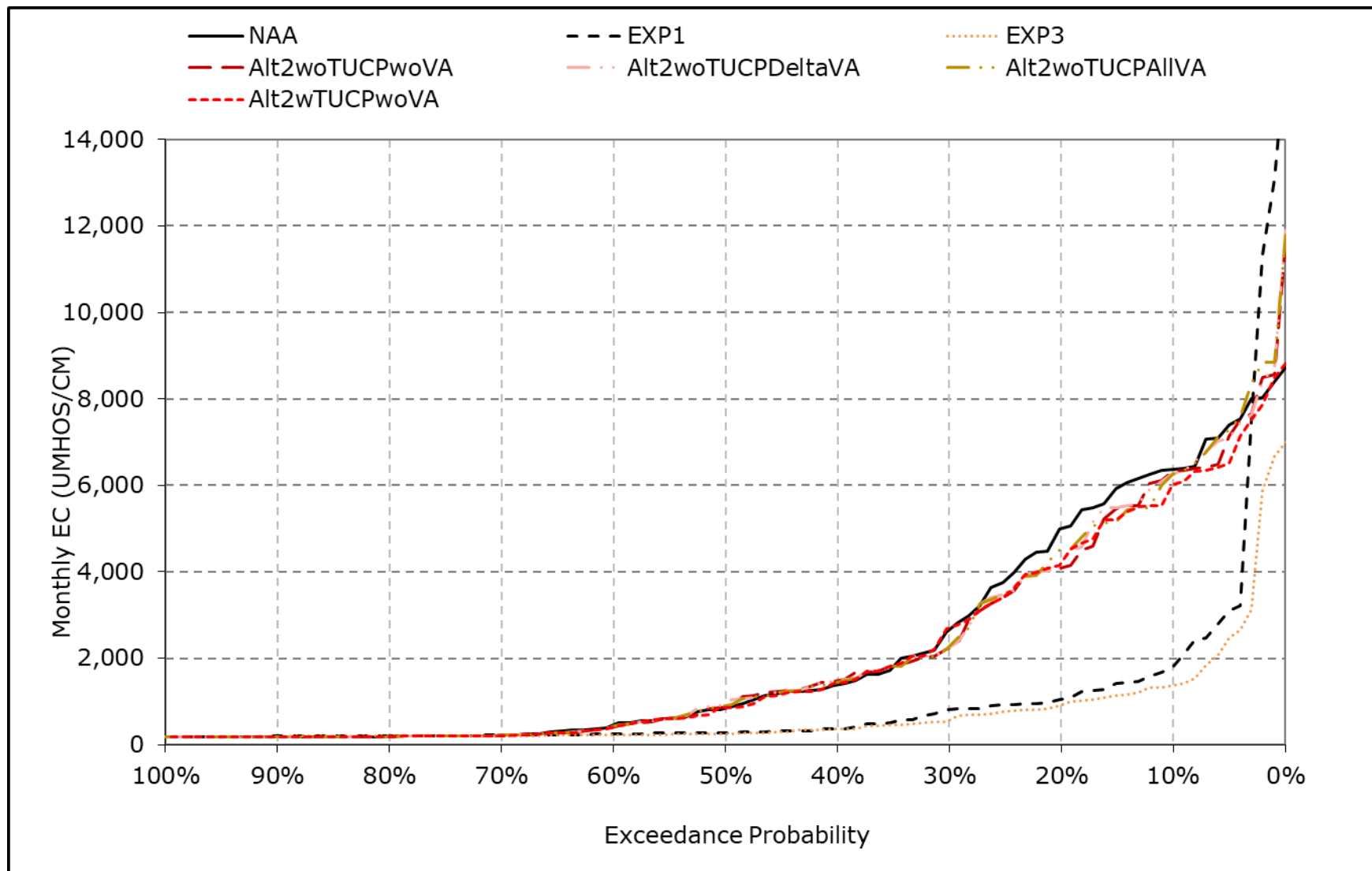


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

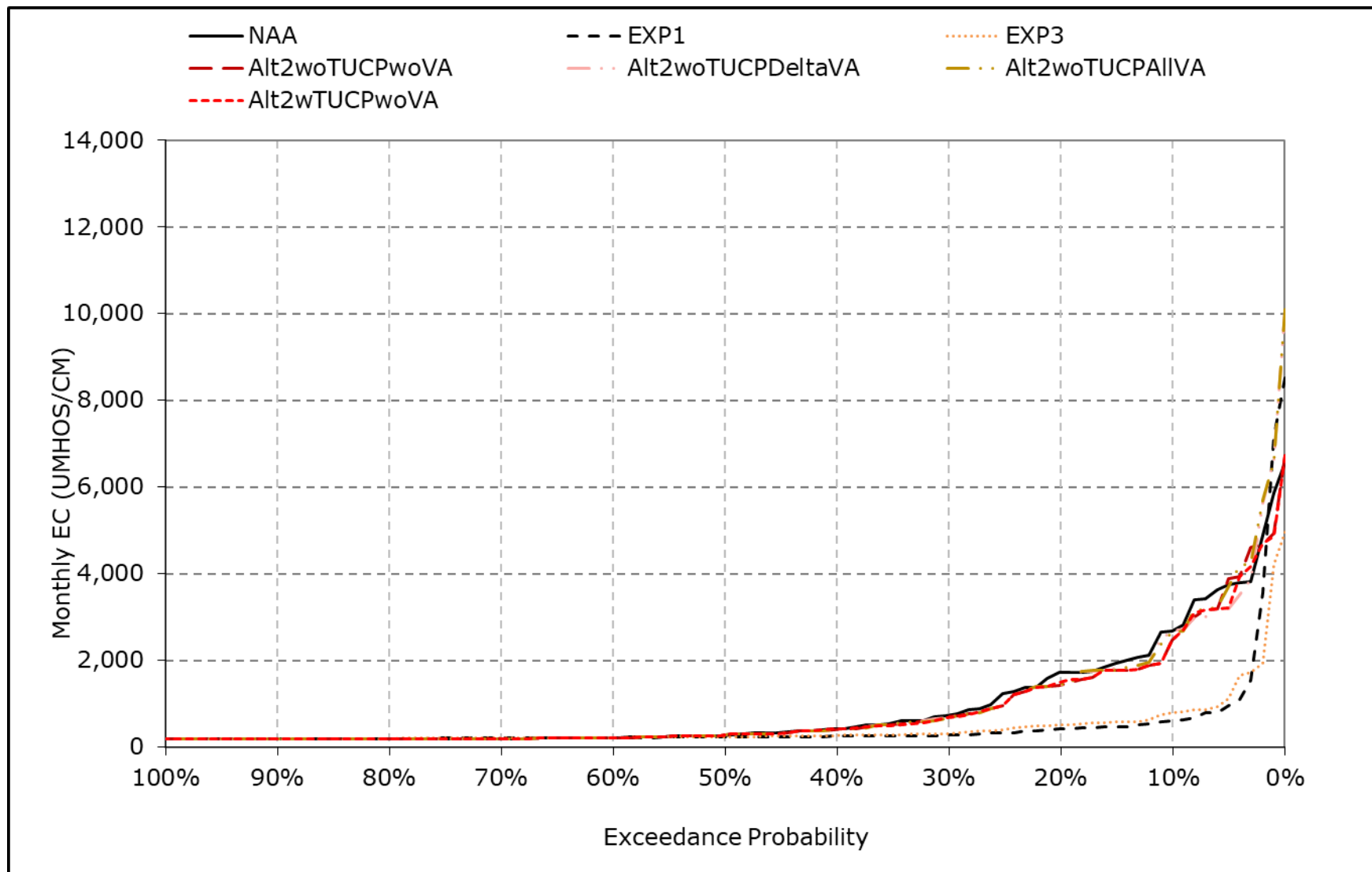
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-7. Sacramento River at Collinsville Salinity, January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

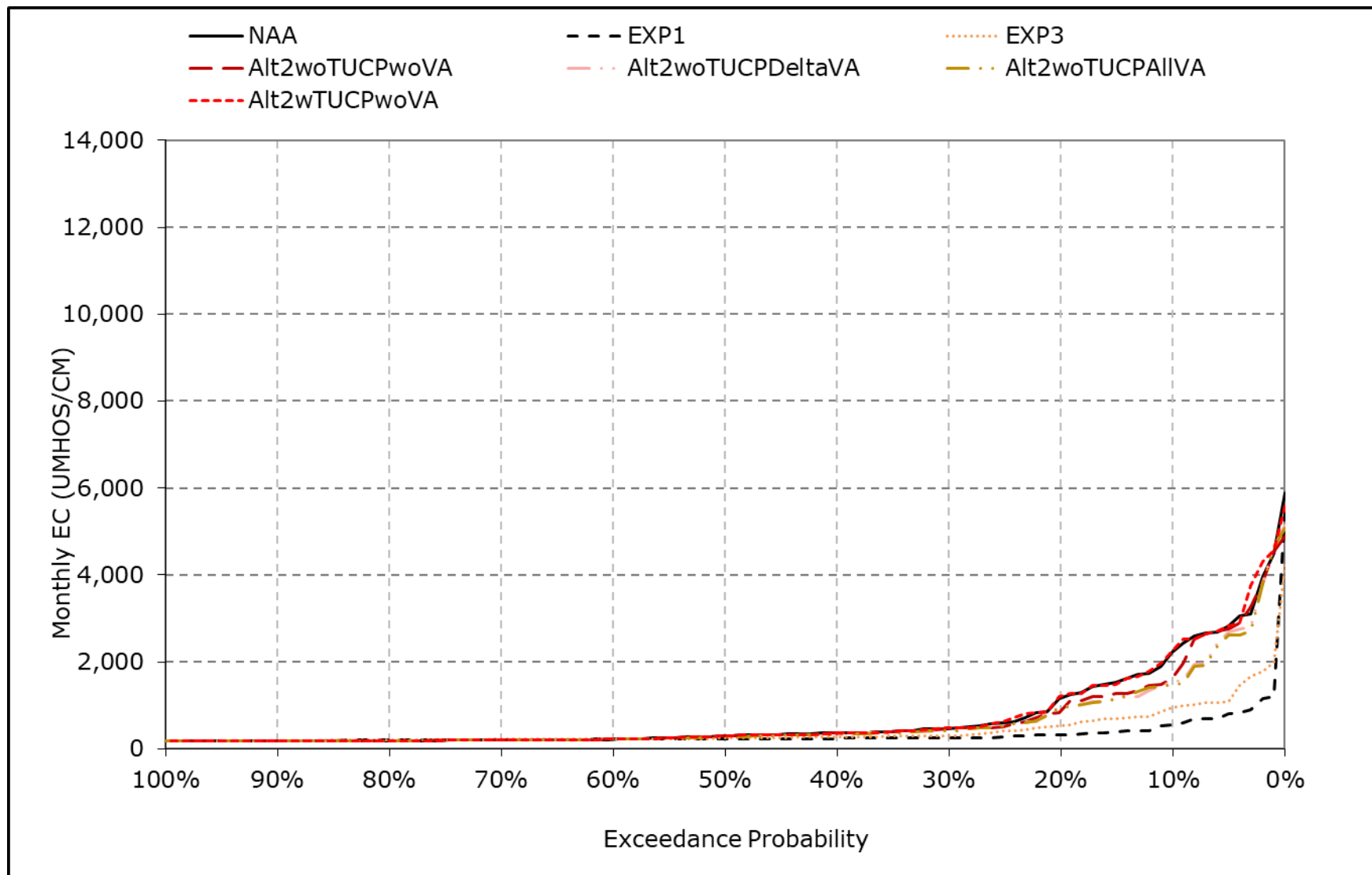
**Figure F.2.5-12-8. Sacramento River at Collinsville Salinity, February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

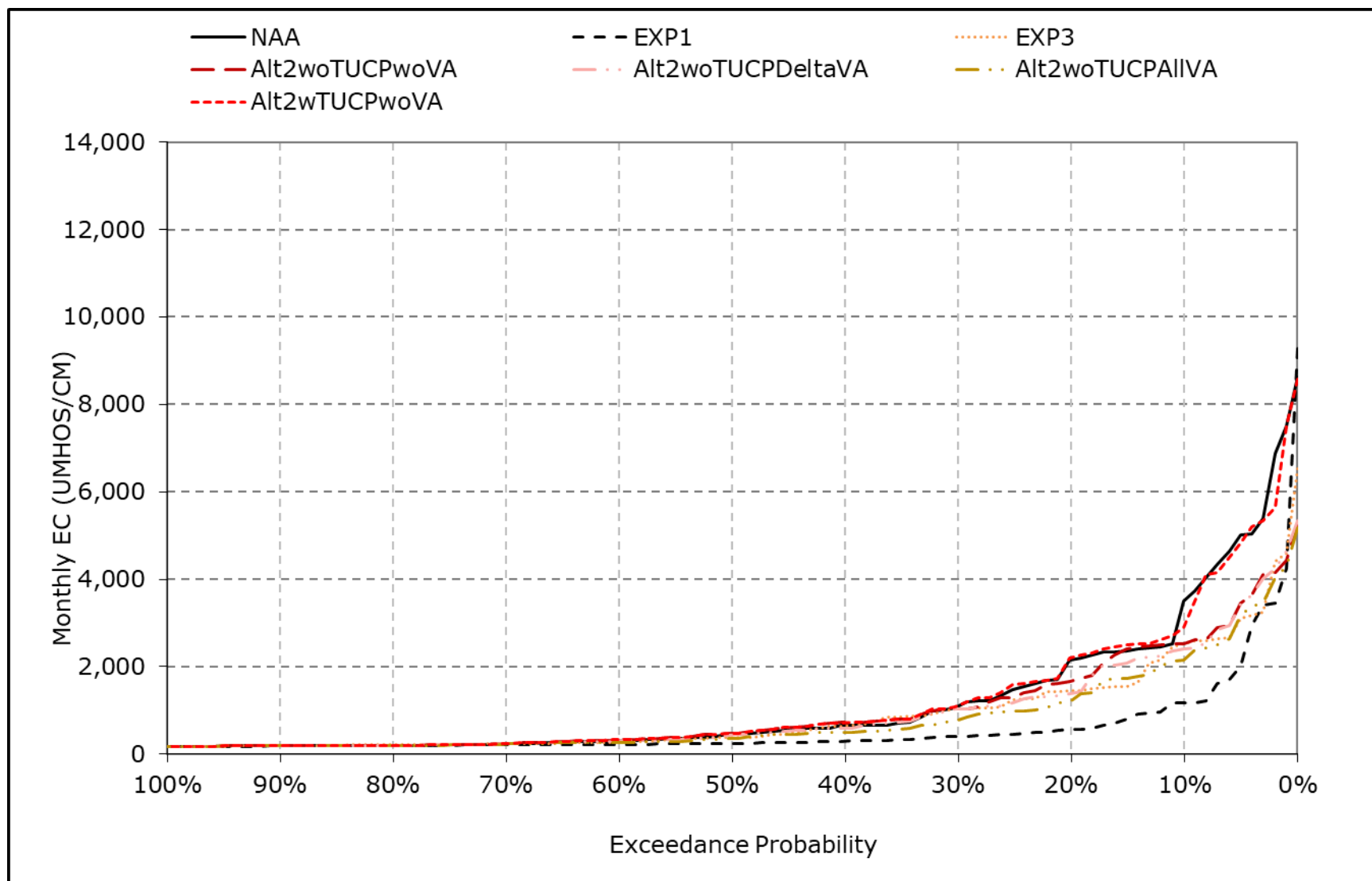


**Figure F.2.5-12-9. Sacramento River at Collinsville Salinity, March EC**



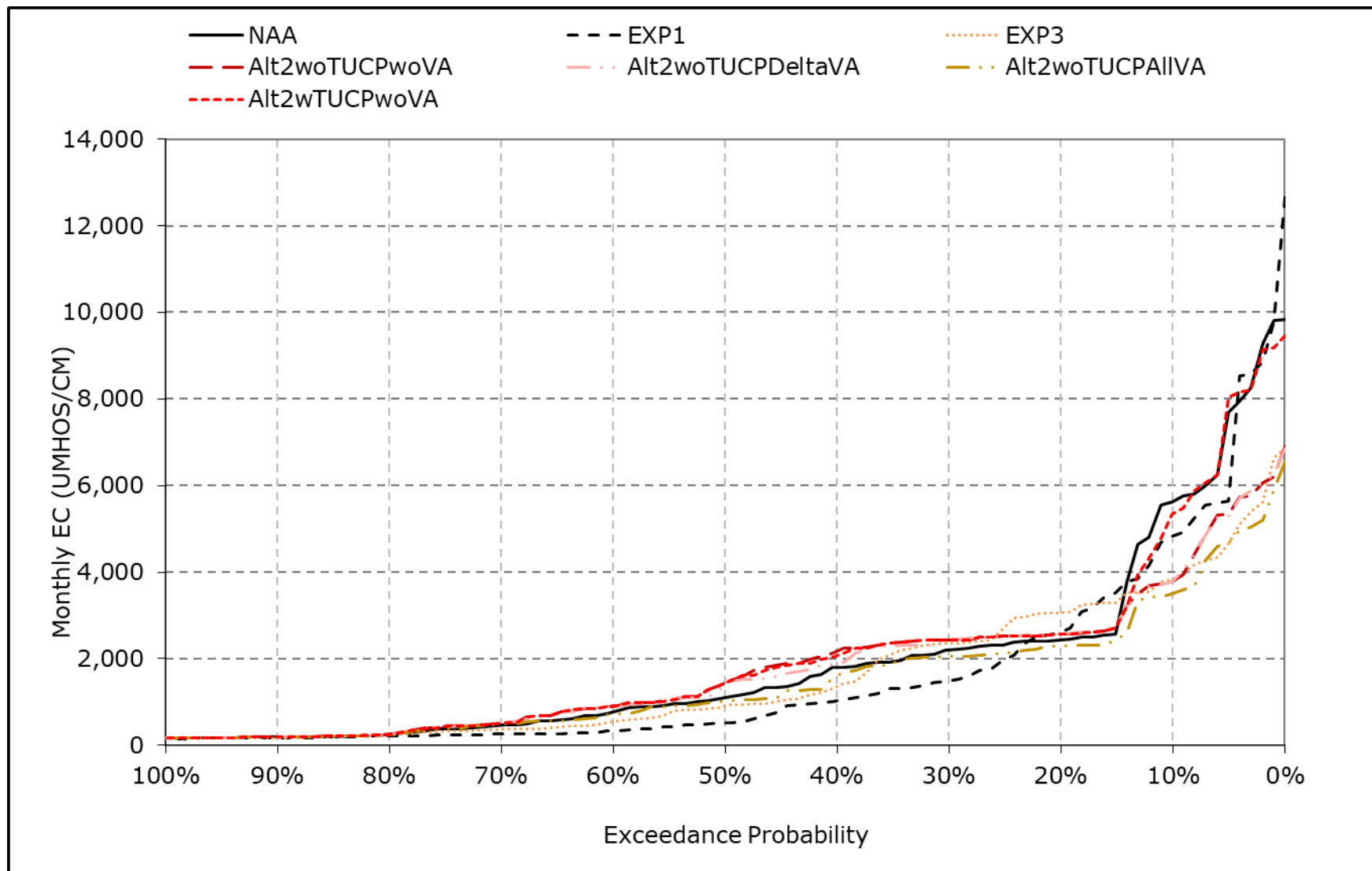
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-10. Sacramento River at Collinsville Salinity, April EC**



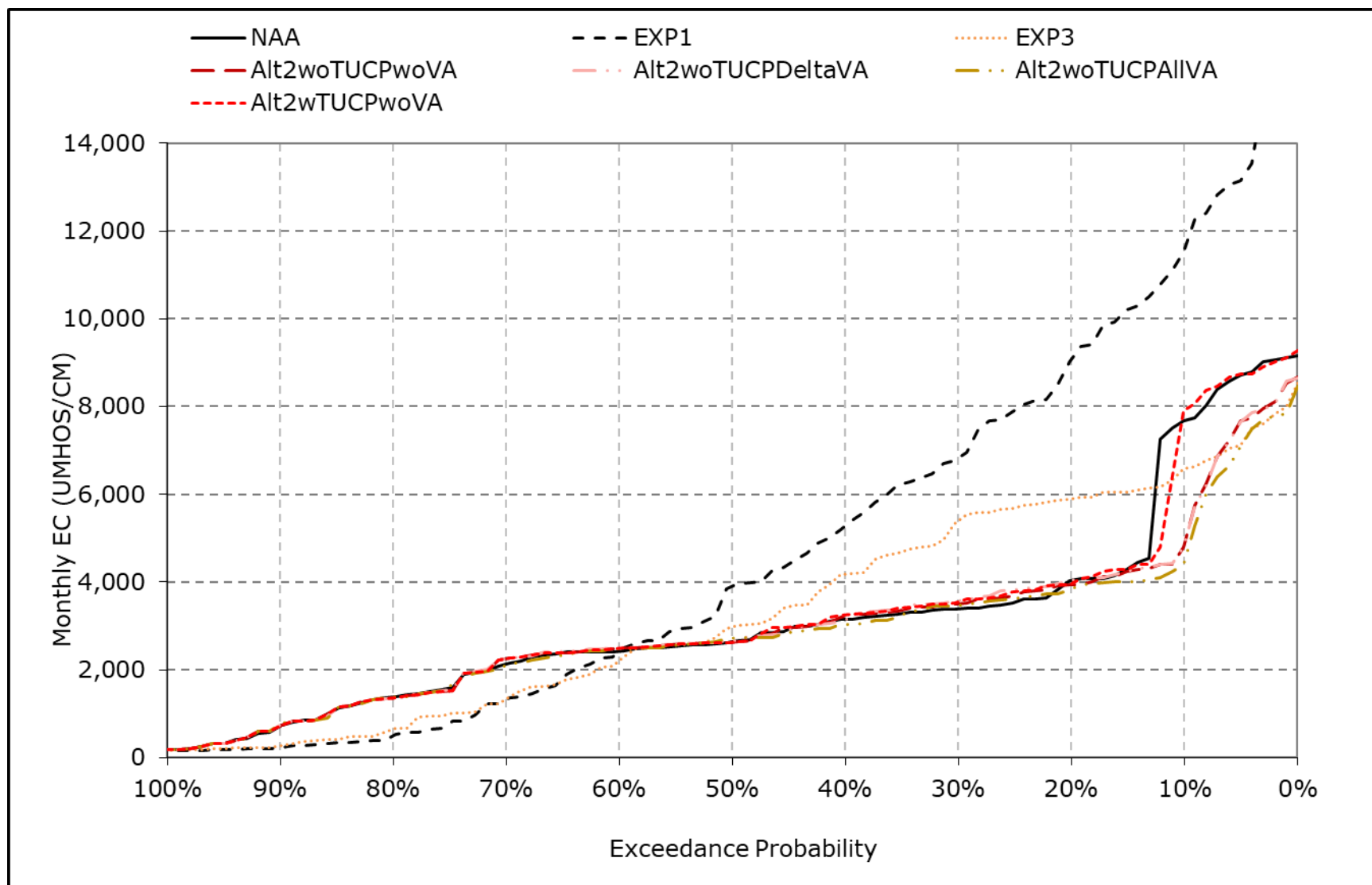
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-11. Sacramento River at Collinsville Salinity, May EC**



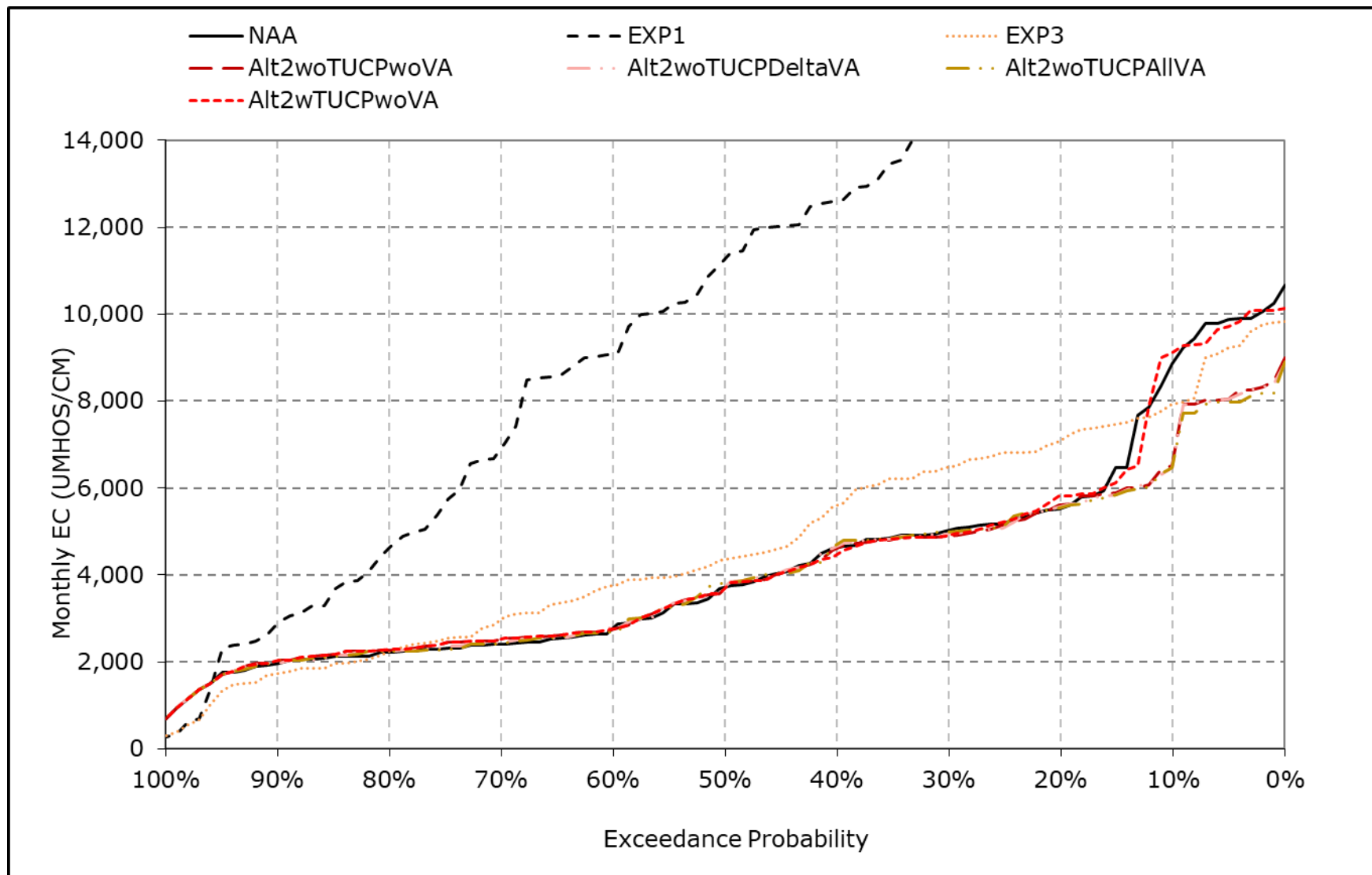
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-12. Sacramento River at Collinsville Salinity, June EC**



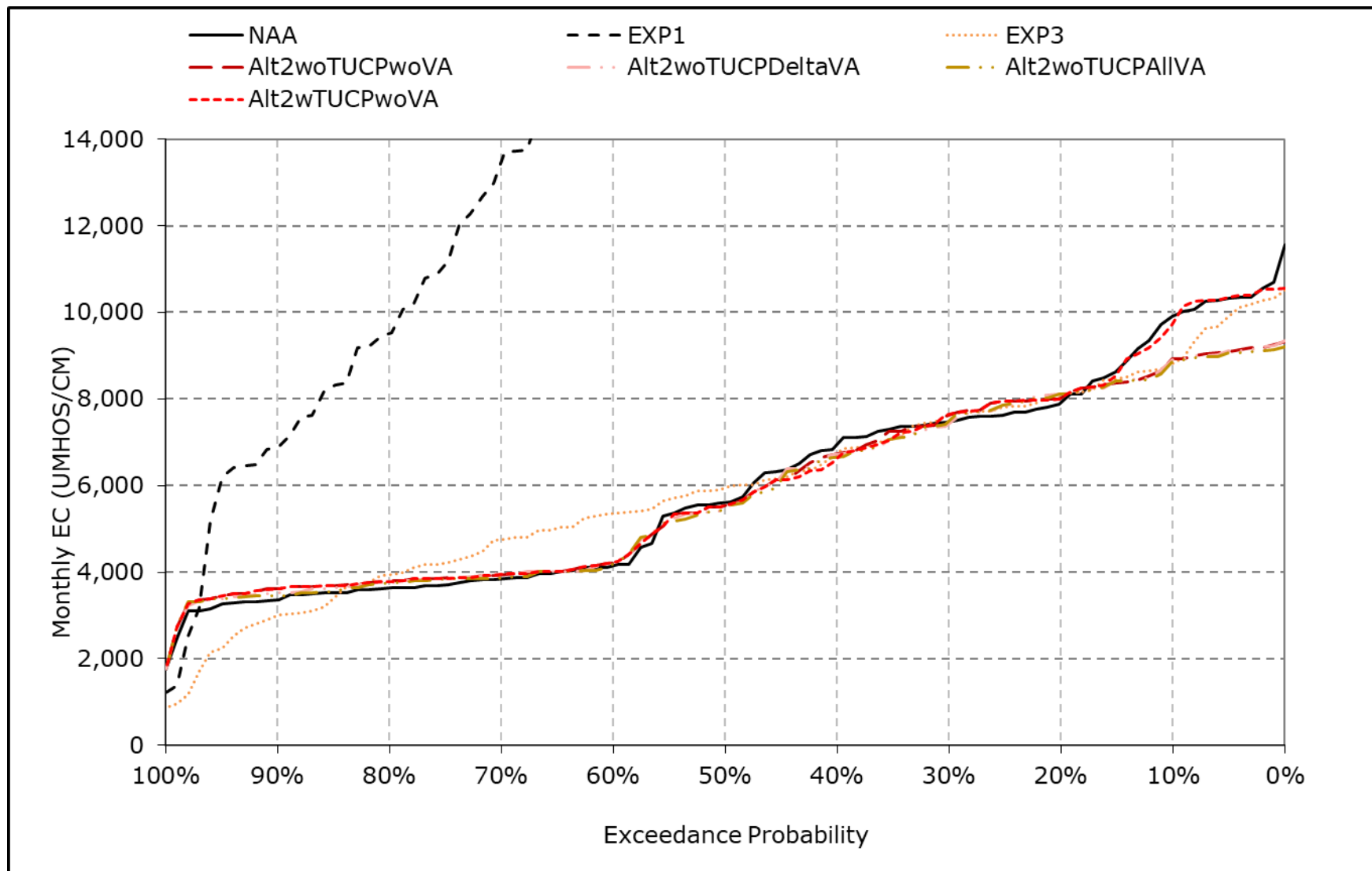
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-13. Sacramento River at Collinsville Salinity, July EC**



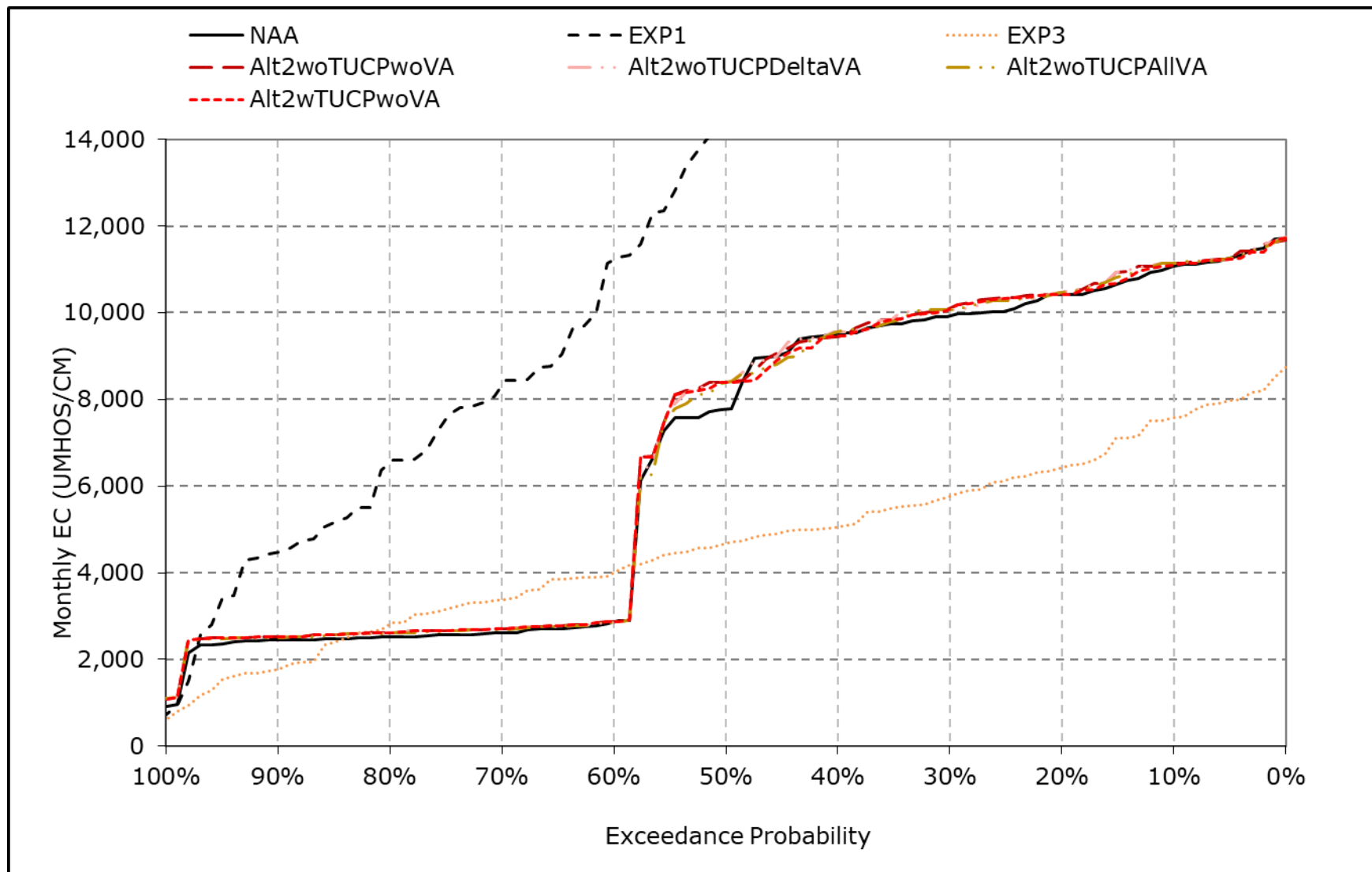
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-14. Sacramento River at Collinsville Salinity, August EC**



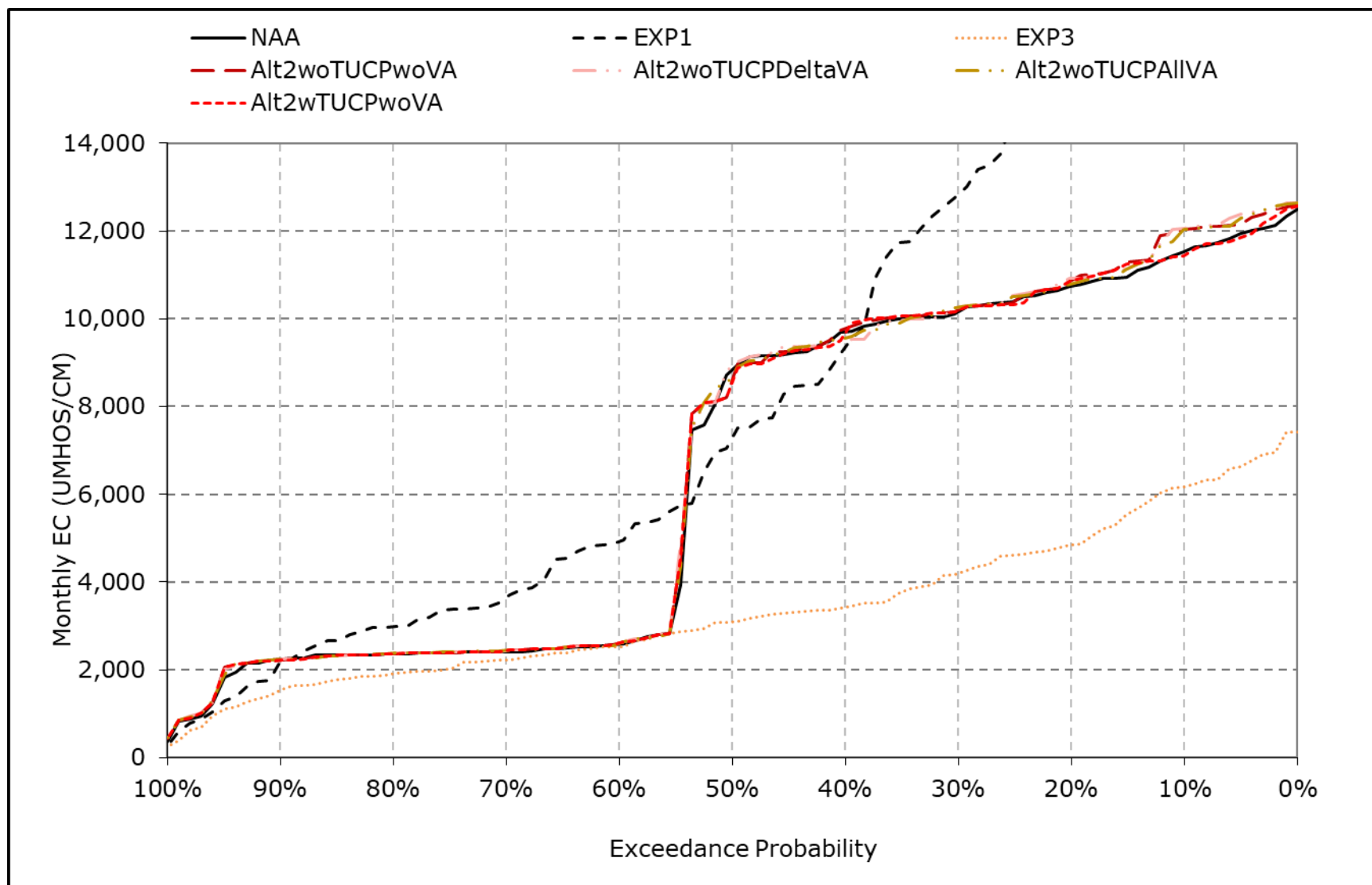
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-15. Sacramento River at Collinsville Salinity, September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

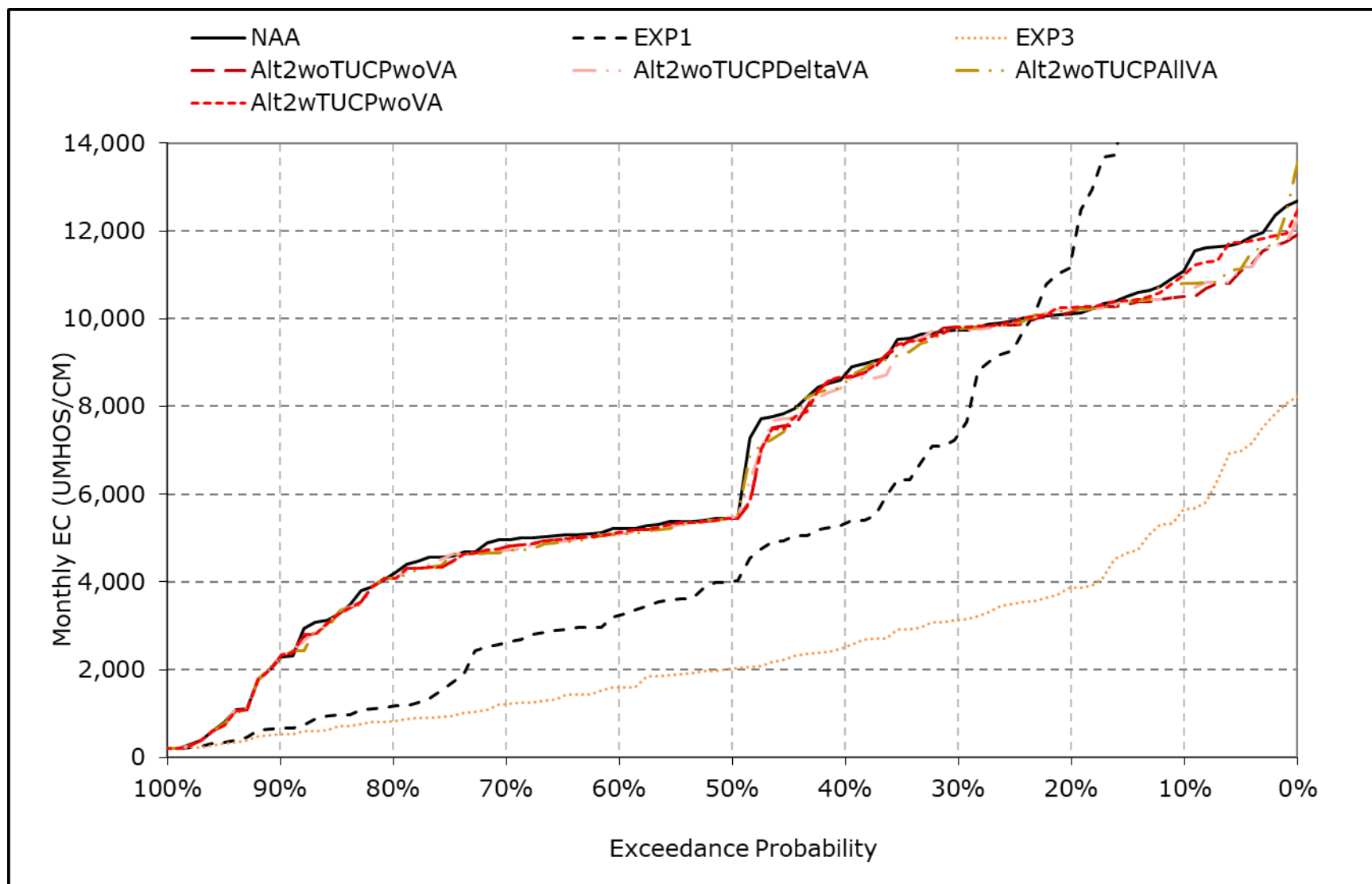
**Figure F.2.5-12-16. Sacramento River at Collinsville Salinity, October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

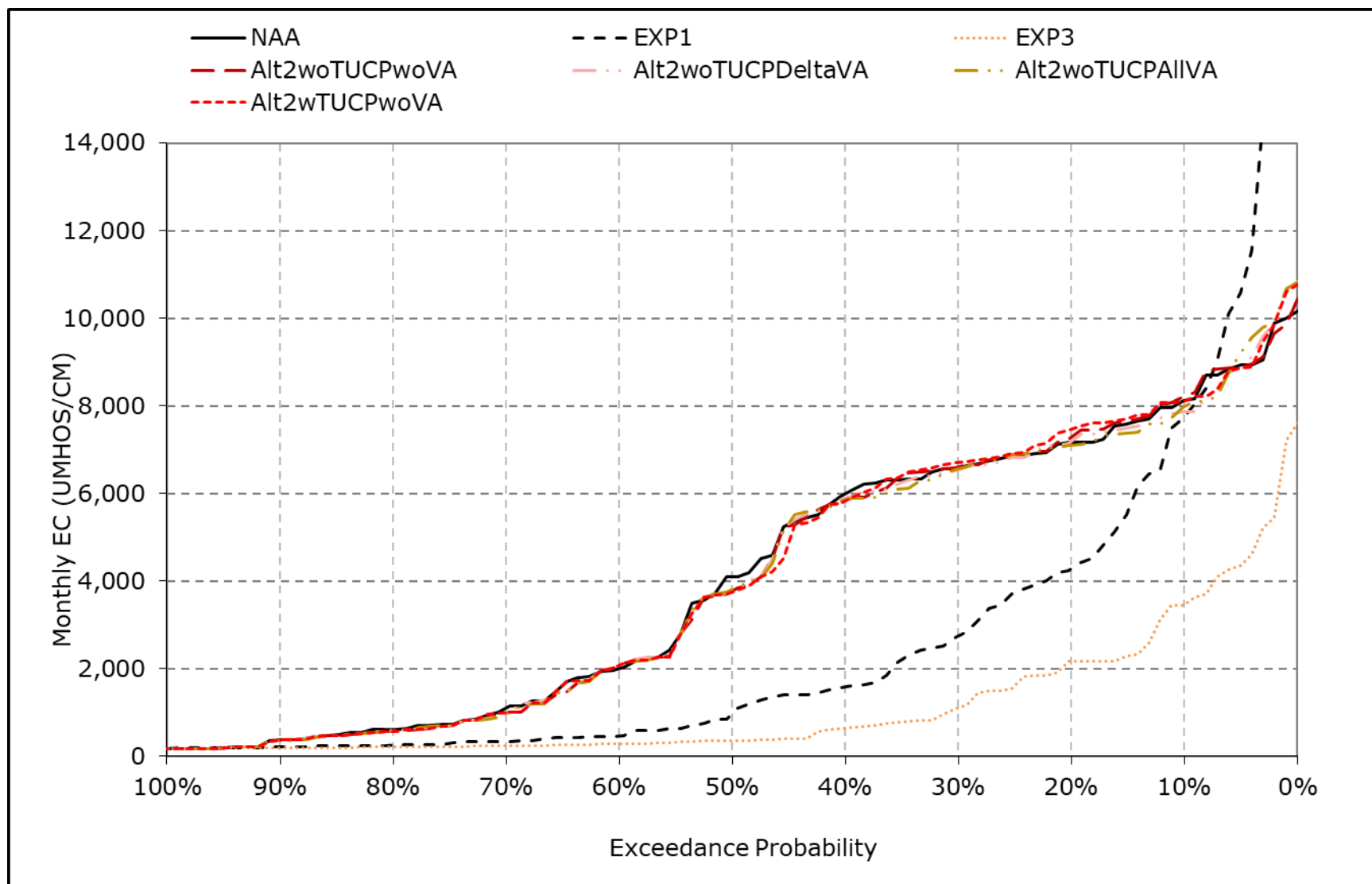


**Figure F.2.5-12-17. Sacramento River at Collinsville Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-12-18. Sacramento River at Collinsville Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-13-1a. Chipps Island North Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 17,060 | 16,338 | 13,012 | 11,001 | 6,152 | 5,317 | 7,320 | 9,850  | 12,439 | 14,080 | 15,503 | 16,655 |
| <b>20% Exceedance</b>                             | 16,207 | 15,293 | 12,218 | 9,491  | 4,176 | 3,363 | 5,029 | 5,591  | 7,782  | 10,004 | 13,038 | 15,790 |
| <b>30% Exceedance</b>                             | 15,692 | 14,988 | 11,617 | 5,999  | 1,945 | 1,494 | 3,020 | 5,231  | 6,997  | 9,535  | 12,470 | 15,348 |
| <b>40% Exceedance</b>                             | 15,205 | 13,850 | 10,800 | 3,512  | 1,245 | 1,149 | 2,064 | 4,492  | 6,529  | 9,163  | 11,973 | 14,912 |
| <b>50% Exceedance</b>                             | 14,326 | 10,142 | 8,092  | 2,324  | 698   | 754   | 1,449 | 3,187  | 5,865  | 7,822  | 10,268 | 13,084 |
| <b>60% Exceedance</b>                             | 6,088  | 9,648  | 4,772  | 1,280  | 357   | 393   | 916   | 2,251  | 5,510  | 6,385  | 8,434  | 6,643  |
| <b>70% Exceedance</b>                             | 5,917  | 9,399  | 2,473  | 434    | 221   | 264   | 568   | 1,485  | 4,972  | 5,743  | 8,033  | 6,339  |
| <b>80% Exceedance</b>                             | 5,813  | 8,358  | 1,359  | 233    | 201   | 205   | 311   | 645    | 3,545  | 5,416  | 7,656  | 6,198  |
| <b>90% Exceedance</b>                             | 5,639  | 5,144  | 740    | 193    | 188   | 187   | 216   | 328    | 2,223  | 5,000  | 7,324  | 6,055  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 11,109 | 11,303 | 7,271  | 4,094  | 2,034 | 1,729 | 2,621 | 3,983  | 6,231  | 8,201  | 10,631 | 11,384 |
| <b>Wet Water Years (28%)</b>                      | 5,559  | 7,400  | 6,030  | 492    | 233   | 329   | 491   | 1,159  | 3,257  | 5,060  | 7,566  | 6,068  |
| <b>Above Normal Years (14%)</b>                   | 5,587  | 8,496  | 6,680  | 2,035  | 457   | 383   | 773   | 2,101  | 4,587  | 5,645  | 7,813  | 6,101  |
| <b>Below Normal Years (18%)</b>                   | 13,924 | 13,127 | 6,067  | 3,552  | 1,869 | 1,241 | 1,998 | 3,196  | 6,052  | 7,914  | 10,661 | 13,643 |
| <b>Dry Water Years (24%)</b>                      | 15,075 | 13,005 | 7,735  | 6,878  | 2,911 | 2,195 | 3,008 | 4,542  | 6,795  | 9,599  | 12,556 | 15,342 |
| <b>Critical Water Years (16%)</b>                 | 17,271 | 16,480 | 10,882 | 8,631  | 5,439 | 5,206 | 8,086 | 10,615 | 12,227 | 14,163 | 15,541 | 16,832 |

**Table F.2.5-13-1b. Chipps Island North Channel Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 17,578 | 15,706 | 13,197 | 10,965 | 5,678 | 4,213 | 5,877 | 7,532 | 9,082  | 11,429 | 14,259 | 16,663 |
| <b>20% Exceedance</b>                             | 16,346 | 15,411 | 12,308 | 8,144  | 3,906 | 2,830 | 4,272 | 5,853 | 7,693  | 10,109 | 13,111 | 15,843 |
| <b>30% Exceedance</b>                             | 15,703 | 14,959 | 11,632 | 5,320  | 2,020 | 1,471 | 2,989 | 5,588 | 7,276  | 9,403  | 12,712 | 15,547 |
| <b>40% Exceedance</b>                             | 15,234 | 13,785 | 10,758 | 3,628  | 1,173 | 1,073 | 2,234 | 5,105 | 6,603  | 9,094  | 11,836 | 15,017 |
| <b>50% Exceedance</b>                             | 14,023 | 9,911  | 7,928  | 2,294  | 683   | 732   | 1,554 | 3,896 | 5,983  | 7,779  | 10,420 | 13,844 |
| <b>60% Exceedance</b>                             | 6,093  | 9,545  | 4,907  | 1,132  | 360   | 395   | 991   | 2,625 | 5,594  | 6,360  | 8,628  | 6,708  |
| <b>70% Exceedance</b>                             | 5,904  | 9,102  | 2,468  | 435    | 221   | 264   | 588   | 1,643 | 5,118  | 5,972  | 8,215  | 6,524  |
| <b>80% Exceedance</b>                             | 5,790  | 8,159  | 1,372  | 232    | 199   | 206   | 324   | 711   | 3,523  | 5,581  | 7,964  | 6,370  |
| <b>90% Exceedance</b>                             | 5,543  | 5,105  | 708    | 193    | 188   | 187   | 217   | 372   | 2,252  | 5,076  | 7,696  | 6,252  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 11,203 | 11,110 | 7,222  | 3,974  | 1,933 | 1,622 | 2,383 | 3,922 | 6,052  | 7,963  | 10,555 | 11,559 |
| <b>Wet Water Years (28%)</b>                      | 5,580  | 7,373  | 6,046  | 453    | 233   | 334   | 550   | 1,339 | 3,288  | 5,160  | 7,808  | 6,194  |
| <b>Above Normal Years (14%)</b>                   | 5,565  | 8,260  | 6,733  | 2,024  | 458   | 385   | 866   | 2,453 | 4,596  | 5,788  | 8,042  | 6,419  |
| <b>Below Normal Years (18%)</b>                   | 14,036 | 12,759 | 5,922  | 3,638  | 1,814 | 1,218 | 2,117 | 3,720 | 6,198  | 7,856  | 10,592 | 13,941 |
| <b>Dry Water Years (24%)</b>                      | 15,164 | 13,030 | 7,730  | 6,488  | 2,657 | 2,167 | 3,117 | 4,814 | 6,959  | 9,671  | 12,692 | 15,536 |
| <b>Critical Water Years (16%)</b>                 | 17,602 | 15,887 | 10,654 | 8,447  | 5,250 | 4,593 | 6,120 | 8,617 | 10,637 | 12,329 | 14,315 | 16,802 |

**Table F.2.5-13-1c. Chipps Island North Channel Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct  | Nov  | Dec  | Jan    | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|-----|
| <b>10% Exceedance</b>                             | 518  | -632 | 185  | -36    | -474 | -1,104 | -1,443 | -2,319 | -3,357 | -2,652 | -1,243 | 9   |
| <b>20% Exceedance</b>                             | 139  | 118  | 90   | -1,347 | -270 | -533   | -757   | 262    | -89    | 105    | 73     | 54  |
| <b>30% Exceedance</b>                             | 11   | -28  | 15   | -679   | 75   | -23    | -31    | 357    | 279    | -132   | 242    | 199 |
| <b>40% Exceedance</b>                             | 28   | -66  | -42  | 116    | -72  | -76    | 170    | 613    | 74     | -68    | -138   | 105 |
| <b>50% Exceedance</b>                             | -303 | -231 | -163 | -30    | -15  | -22    | 105    | 709    | 118    | -43    | 152    | 760 |
| <b>60% Exceedance</b>                             | 5    | -103 | 135  | -147   | 2    | 2      | 75     | 373    | 84     | -25    | 195    | 66  |
| <b>70% Exceedance</b>                             | -13  | -297 | -5   | 2      | 0    | 0      | 19     | 158    | 146    | 229    | 182    | 184 |
| <b>80% Exceedance</b>                             | -24  | -199 | 13   | -1     | -2   | 1      | 13     | 66     | -22    | 164    | 308    | 172 |
| <b>90% Exceedance</b>                             | -96  | -39  | -32  | 0      | 0    | 0      | 1      | 45     | 29     | 76     | 373    | 197 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 94   | -192 | -49  | -120   | -101 | -107   | -238   | -60    | -179   | -239   | -76    | 175 |
| <b>Wet Water Years (28%)</b>                      | 21   | -27  | 16   | -39    | 0    | 5      | 59     | 180    | 31     | 101    | 242    | 126 |
| <b>Above Normal Years (14%)</b>                   | -22  | -236 | 53   | -11    | 0    | 2      | 92     | 352    | 9      | 143    | 230    | 319 |
| <b>Below Normal Years (18%)</b>                   | 112  | -369 | -145 | 86     | -55  | -23    | 118    | 524    | 146    | -58    | -70    | 298 |
| <b>Dry Water Years (24%)</b>                      | 89   | 25   | -5   | -390   | -254 | -28    | 108    | 272    | 164    | 72     | 136    | 194 |
| <b>Critical Water Years (16%)</b>                 | 331  | -593 | -228 | -184   | -188 | -613   | -1,966 | -1,999 | -1,590 | -1,834 | -1,226 | -29 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-13-2a. Chipps Island North Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,060 | 16,338 | 13,012 | 11,001 | 6,152 | 5,317 | 7,320 | 9,850  | 12,439 | 14,080 | 15,503 | 16,655 |
| 20% Exceedance                              | 16,207 | 15,293 | 12,218 | 9,491  | 4,176 | 3,363 | 5,029 | 5,591  | 7,782  | 10,004 | 13,038 | 15,790 |
| 30% Exceedance                              | 15,692 | 14,988 | 11,617 | 5,999  | 1,945 | 1,494 | 3,020 | 5,231  | 6,997  | 9,535  | 12,470 | 15,348 |
| 40% Exceedance                              | 15,205 | 13,850 | 10,800 | 3,512  | 1,245 | 1,149 | 2,064 | 4,492  | 6,529  | 9,163  | 11,973 | 14,912 |
| 50% Exceedance                              | 14,326 | 10,142 | 8,092  | 2,324  | 698   | 754   | 1,449 | 3,187  | 5,865  | 7,822  | 10,268 | 13,084 |
| 60% Exceedance                              | 6,088  | 9,648  | 4,772  | 1,280  | 357   | 393   | 916   | 2,251  | 5,510  | 6,385  | 8,434  | 6,643  |
| 70% Exceedance                              | 5,917  | 9,399  | 2,473  | 434    | 221   | 264   | 568   | 1,485  | 4,972  | 5,743  | 8,033  | 6,339  |
| 80% Exceedance                              | 5,813  | 8,358  | 1,359  | 233    | 201   | 205   | 311   | 645    | 3,545  | 5,416  | 7,656  | 6,198  |
| 90% Exceedance                              | 5,639  | 5,144  | 740    | 193    | 188   | 187   | 216   | 328    | 2,223  | 5,000  | 7,324  | 6,055  |
| Full Simulation Period Average <sup>a</sup> | 11,109 | 11,303 | 7,271  | 4,094  | 2,034 | 1,729 | 2,621 | 3,983  | 6,231  | 8,201  | 10,631 | 11,384 |
| Wet Water Years (28%)                       | 5,559  | 7,400  | 6,030  | 492    | 233   | 329   | 491   | 1,159  | 3,257  | 5,060  | 7,566  | 6,068  |
| Above Normal Years (14%)                    | 5,587  | 8,496  | 6,680  | 2,035  | 457   | 383   | 773   | 2,101  | 4,587  | 5,645  | 7,813  | 6,101  |
| Below Normal Years (18%)                    | 13,924 | 13,127 | 6,067  | 3,552  | 1,869 | 1,241 | 1,998 | 3,196  | 6,052  | 7,914  | 10,661 | 13,643 |
| Dry Water Years (24%)                       | 15,075 | 13,005 | 7,735  | 6,878  | 2,911 | 2,195 | 3,008 | 4,542  | 6,795  | 9,599  | 12,556 | 15,342 |
| Critical Water Years (16%)                  | 17,271 | 16,480 | 10,882 | 8,631  | 5,439 | 5,206 | 8,086 | 10,615 | 12,227 | 14,163 | 15,541 | 16,832 |

**Table F.2.5-13-2b. Chipps Island North Channel Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,635 | 15,803 | 12,743 | 10,795 | 6,078 | 4,073 | 5,560 | 7,530 | 9,071  | 11,378 | 14,257 | 16,661 |
| 20% Exceedance                              | 16,269 | 15,376 | 12,234 | 8,267  | 3,887 | 2,572 | 3,740 | 5,793 | 7,914  | 10,111 | 13,137 | 15,836 |
| 30% Exceedance                              | 15,783 | 15,017 | 11,543 | 5,354  | 2,033 | 1,417 | 2,859 | 5,495 | 7,319  | 9,488  | 12,683 | 15,512 |
| 40% Exceedance                              | 15,018 | 13,679 | 10,752 | 3,609  | 1,178 | 1,032 | 1,954 | 4,653 | 6,574  | 9,171  | 11,803 | 15,060 |
| 50% Exceedance                              | 14,390 | 9,922  | 7,871  | 2,498  | 682   | 707   | 1,408 | 3,664 | 5,960  | 7,802  | 10,350 | 13,784 |
| 60% Exceedance                              | 6,104  | 9,522  | 4,922  | 1,156  | 364   | 385   | 891   | 2,592 | 5,620  | 6,387  | 8,604  | 6,682  |
| 70% Exceedance                              | 5,909  | 9,096  | 2,466  | 433    | 222   | 260   | 540   | 1,651 | 5,163  | 5,864  | 8,189  | 6,500  |
| 80% Exceedance                              | 5,789  | 8,156  | 1,398  | 233    | 199   | 206   | 320   | 698   | 3,511  | 5,464  | 7,920  | 6,340  |
| 90% Exceedance                              | 5,549  | 5,145  | 719    | 194    | 188   | 187   | 209   | 375   | 2,273  | 5,044  | 7,561  | 6,232  |
| Full Simulation Period Average <sup>a</sup> | 11,207 | 11,124 | 7,210  | 4,013  | 1,996 | 1,529 | 2,239 | 3,851 | 6,075  | 7,948  | 10,526 | 11,548 |
| Wet Water Years (28%)                       | 5,585  | 7,376  | 6,042  | 473    | 234   | 329   | 526   | 1,333 | 3,311  | 5,124  | 7,781  | 6,183  |
| Above Normal Years (14%)                    | 5,568  | 8,260  | 6,635  | 2,027  | 460   | 376   | 685   | 2,237 | 4,643  | 5,720  | 7,956  | 6,395  |
| Below Normal Years (18%)                    | 14,001 | 12,729 | 5,950  | 3,653  | 1,839 | 1,035 | 1,870 | 3,678 | 6,250  | 7,881  | 10,549 | 13,907 |
| Dry Water Years (24%)                       | 15,168 | 13,042 | 7,659  | 6,570  | 2,714 | 1,930 | 2,837 | 4,678 | 6,962  | 9,682  | 12,682 | 15,535 |
| Critical Water Years (16%)                  | 17,648 | 15,987 | 10,762 | 8,513  | 5,528 | 4,590 | 6,115 | 8,625 | 10,640 | 12,311 | 14,317 | 16,810 |

**Table F.2.5-13-2c. Chipps Island North Channel Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 575  | -535 | -269 | -205   | -74  | -1,243 | -1,760 | -2,320 | -3,368 | -2,703 | -1,245 | 6   |
| 20% Exceedance                              | 62   | 83   | 15   | -1,224 | -289 | -792   | -1,289 | 202    | 132    | 107    | 99     | 46  |
| 30% Exceedance                              | 91   | 29   | -74  | -645   | 88   | -77    | -161   | 264    | 322    | -47    | 214    | 163 |
| 40% Exceedance                              | -187 | -171 | -48  | 97     | -67  | -116   | -110   | 160    | 45     | 8      | -170   | 148 |
| 50% Exceedance                              | 64   | -220 | -220 | 174    | -16  | -47    | -41    | 478    | 95     | -20    | 82     | 700 |
| 60% Exceedance                              | 16   | -126 | 150  | -124   | 7    | -8     | -24    | 341    | 110    | 2      | 170    | 39  |
| 70% Exceedance                              | -8   | -302 | -7   | 0      | 1    | -4     | -28    | 166    | 191    | 121    | 156    | 161 |
| 80% Exceedance                              | -24  | -202 | 39   | 0      | -2   | 1      | 9      | 53     | -34    | 47     | 264    | 142 |
| 90% Exceedance                              | -91  | 2    | -21  | 0      | 0    | 0      | -7     | 48     | 50     | 44     | 238    | 177 |
| Full Simulation Period Average <sup>a</sup> | 97   | -179 | -61  | -81    | -38  | -200   | -382   | -131   | -155   | -254   | -106   | 164 |
| Wet Water Years (28%)                       | 26   | -23  | 13   | -19    | 1    | 1      | 35     | 174    | 54     | 64     | 215    | 115 |
| Above Normal Years (14%)                    | -19  | -236 | -45  | -8     | 2    | -6     | -88    | 136    | 56     | 75     | 144    | 295 |
| Below Normal Years (18%)                    | 77   | -399 | -117 | 101    | -30  | -206   | -128   | 482    | 199    | -33    | -112   | 264 |
| Dry Water Years (24%)                       | 93   | 37   | -76  | -308   | -197 | -265   | -171   | 136    | 167    | 83     | 126    | 193 |
| Critical Water Years (16%)                  | 377  | -493 | -121 | -119   | 89   | -616   | -1,971 | -1,991 | -1,587 | -1,852 | -1,224 | -22 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-13-3a. Chipps Island North Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,060 | 16,338 | 13,012 | 11,001 | 6,152 | 5,317 | 7,320 | 9,850  | 12,439 | 14,080 | 15,503 | 16,655 |
| 20% Exceedance                              | 16,207 | 15,293 | 12,218 | 9,491  | 4,176 | 3,363 | 5,029 | 5,591  | 7,782  | 10,004 | 13,038 | 15,790 |
| 30% Exceedance                              | 15,692 | 14,988 | 11,617 | 5,999  | 1,945 | 1,494 | 3,020 | 5,231  | 6,997  | 9,535  | 12,470 | 15,348 |
| 40% Exceedance                              | 15,205 | 13,850 | 10,800 | 3,512  | 1,245 | 1,149 | 2,064 | 4,492  | 6,529  | 9,163  | 11,973 | 14,912 |
| 50% Exceedance                              | 14,326 | 10,142 | 8,092  | 2,324  | 698   | 754   | 1,449 | 3,187  | 5,865  | 7,822  | 10,268 | 13,084 |
| 60% Exceedance                              | 6,088  | 9,648  | 4,772  | 1,280  | 357   | 393   | 916   | 2,251  | 5,510  | 6,385  | 8,434  | 6,643  |
| 70% Exceedance                              | 5,917  | 9,399  | 2,473  | 434    | 221   | 264   | 568   | 1,485  | 4,972  | 5,743  | 8,033  | 6,339  |
| 80% Exceedance                              | 5,813  | 8,358  | 1,359  | 233    | 201   | 205   | 311   | 645    | 3,545  | 5,416  | 7,656  | 6,198  |
| 90% Exceedance                              | 5,639  | 5,144  | 740    | 193    | 188   | 187   | 216   | 328    | 2,223  | 5,000  | 7,324  | 6,055  |
| Full Simulation Period Average <sup>a</sup> | 11,109 | 11,303 | 7,271  | 4,094  | 2,034 | 1,729 | 2,621 | 3,983  | 6,231  | 8,201  | 10,631 | 11,384 |
| Wet Water Years (28%)                       | 5,559  | 7,400  | 6,030  | 492    | 233   | 329   | 491   | 1,159  | 3,257  | 5,060  | 7,566  | 6,068  |
| Above Normal Years (14%)                    | 5,587  | 8,496  | 6,680  | 2,035  | 457   | 383   | 773   | 2,101  | 4,587  | 5,645  | 7,813  | 6,101  |
| Below Normal Years (18%)                    | 13,924 | 13,127 | 6,067  | 3,552  | 1,869 | 1,241 | 1,998 | 3,196  | 6,052  | 7,914  | 10,661 | 13,643 |
| Dry Water Years (24%)                       | 15,075 | 13,005 | 7,735  | 6,878  | 2,911 | 2,195 | 3,008 | 4,542  | 6,795  | 9,599  | 12,556 | 15,342 |
| Critical Water Years (16%)                  | 17,271 | 16,480 | 10,882 | 8,631  | 5,439 | 5,206 | 8,086 | 10,615 | 12,227 | 14,163 | 15,541 | 16,832 |

**Table F.2.5-13-3b. Chipps Island North Channel Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,569 | 16,037 | 12,811 | 10,775 | 6,045 | 3,954 | 5,224 | 7,212 | 8,441  | 11,506 | 14,198 | 16,635 |
| 20% Exceedance                              | 16,202 | 15,439 | 12,054 | 8,641  | 3,895 | 2,522 | 3,475 | 5,296 | 7,593  | 10,081 | 13,101 | 15,818 |
| 30% Exceedance                              | 15,686 | 15,025 | 11,568 | 5,382  | 2,026 | 1,399 | 2,443 | 4,931 | 7,151  | 9,603  | 12,711 | 15,539 |
| 40% Exceedance                              | 15,033 | 13,712 | 10,668 | 3,577  | 1,172 | 1,019 | 1,588 | 4,051 | 6,375  | 9,242  | 11,806 | 15,089 |
| 50% Exceedance                              | 14,242 | 9,925  | 7,854  | 2,475  | 682   | 721   | 1,161 | 2,904 | 5,956  | 7,896  | 10,273 | 13,760 |
| 60% Exceedance                              | 6,105  | 9,507  | 4,915  | 1,204  | 364   | 388   | 766   | 2,107 | 5,572  | 6,244  | 8,588  | 6,682  |
| 70% Exceedance                              | 5,911  | 9,079  | 2,459  | 430    | 222   | 261   | 497   | 1,520 | 4,961  | 5,847  | 8,170  | 6,494  |
| 80% Exceedance                              | 5,785  | 8,159  | 1,416  | 231    | 199   | 206   | 303   | 636   | 3,538  | 5,459  | 7,881  | 6,345  |
| 90% Exceedance                              | 5,554  | 5,200  | 670    | 194    | 188   | 187   | 209   | 372   | 2,317  | 5,024  | 7,488  | 6,214  |
| Full Simulation Period Average <sup>a</sup> | 11,184 | 11,140 | 7,194  | 4,012  | 2,022 | 1,516 | 2,010 | 3,430 | 5,903  | 7,929  | 10,485 | 11,515 |
| Wet Water Years (28%)                       | 5,580  | 7,380  | 6,040  | 478    | 234   | 331   | 519   | 1,299 | 3,307  | 5,113  | 7,757  | 6,178  |
| Above Normal Years (14%)                    | 5,579  | 8,253  | 6,619  | 2,010  | 459   | 376   | 603   | 1,864 | 4,517  | 5,678  | 7,854  | 6,394  |
| Below Normal Years (18%)                    | 13,967 | 12,839 | 5,894  | 3,598  | 1,840 | 1,027 | 1,455 | 3,002 | 6,065  | 7,895  | 10,487 | 13,776 |
| Dry Water Years (24%)                       | 15,126 | 12,897 | 7,597  | 6,467  | 2,738 | 1,898 | 2,438 | 4,104 | 6,739  | 9,714  | 12,687 | 15,524 |
| Critical Water Years (16%)                  | 17,601 | 16,193 | 10,837 | 8,730  | 5,650 | 4,563 | 5,831 | 8,000 | 10,221 | 12,191 | 14,255 | 16,778 |

**Table F.2.5-13-3c. Chipps Island North Channel Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|------|------|--------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 510  | -301 | -201 | -226 | -106 | -1,363 | -2,096 | -2,639 | -3,998 | -2,574 | -1,305 | -20 |
| 20% Exceedance                              | -5   | 146  | -164 | -850 | -281 | -841   | -1,555 | -294   | -188   | 77     | 63     | 28  |
| 30% Exceedance                              | -6   | 37   | -50  | -617 | 81   | -95    | -577   | -300   | 154    | 69     | 242    | 191 |
| 40% Exceedance                              | -172 | -138 | -132 | 65   | -73  | -130   | -475   | -441   | -154   | 79     | -167   | 177 |
| 50% Exceedance                              | -84  | -217 | -237 | 150  | -16  | -33    | -288   | -283   | 91     | 74     | 5      | 676 |
| 60% Exceedance                              | 16   | -141 | 143  | -76  | 6    | -5     | -150   | -144   | 62     | -141   | 154    | 40  |
| 70% Exceedance                              | -7   | -320 | -14  | -4   | 1    | -3     | -72    | 35     | -11    | 105    | 137    | 154 |
| 80% Exceedance                              | -29  | -199 | 57   | -2   | -1   | 1      | -7     | -9     | -7     | 43     | 226    | 147 |
| 90% Exceedance                              | -85  | 57   | -70  | 0    | 0    | 0      | -7     | 45     | 94     | 25     | 164    | 159 |
| Full Simulation Period Average <sup>a</sup> | 74   | -163 | -77  | -82  | -12  | -213   | -611   | -552   | -328   | -272   | -146   | 131 |
| Wet Water Years (28%)                       | 21   | -19  | 10   | -14  | 1    | 2      | 28     | 140    | 50     | 53     | 191    | 111 |
| Above Normal Years (14%)                    | -8   | -243 | -61  | -25  | 2    | -6     | -170   | -238   | -70    | 33     | 41     | 293 |
| Below Normal Years (18%)                    | 44   | -288 | -172 | 46   | -29  | -213   | -543   | -194   | 13     | -19    | -174   | 133 |
| Dry Water Years (24%)                       | 51   | -108 | -138 | -410 | -172 | -297   | -570   | -438   | -57    | 115    | 131    | 183 |
| Critical Water Years (16%)                  | 330  | -288 | -45  | 98   | 211  | -644   | -2,256 | -2,615 | -2,006 | -1,972 | -1,286 | -54 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-13-4a. Chipps Island North Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,060 | 16,338 | 13,012 | 11,001 | 6,152 | 5,317 | 7,320 | 9,850  | 12,439 | 14,080 | 15,503 | 16,655 |
| 20% Exceedance                              | 16,207 | 15,293 | 12,218 | 9,491  | 4,176 | 3,363 | 5,029 | 5,591  | 7,782  | 10,004 | 13,038 | 15,790 |
| 30% Exceedance                              | 15,692 | 14,988 | 11,617 | 5,999  | 1,945 | 1,494 | 3,020 | 5,231  | 6,997  | 9,535  | 12,470 | 15,348 |
| 40% Exceedance                              | 15,205 | 13,850 | 10,800 | 3,512  | 1,245 | 1,149 | 2,064 | 4,492  | 6,529  | 9,163  | 11,973 | 14,912 |
| 50% Exceedance                              | 14,326 | 10,142 | 8,092  | 2,324  | 698   | 754   | 1,449 | 3,187  | 5,865  | 7,822  | 10,268 | 13,084 |
| 60% Exceedance                              | 6,088  | 9,648  | 4,772  | 1,280  | 357   | 393   | 916   | 2,251  | 5,510  | 6,385  | 8,434  | 6,643  |
| 70% Exceedance                              | 5,917  | 9,399  | 2,473  | 434    | 221   | 264   | 568   | 1,485  | 4,972  | 5,743  | 8,033  | 6,339  |
| 80% Exceedance                              | 5,813  | 8,358  | 1,359  | 233    | 201   | 205   | 311   | 645    | 3,545  | 5,416  | 7,656  | 6,198  |
| 90% Exceedance                              | 5,639  | 5,144  | 740    | 193    | 188   | 187   | 216   | 328    | 2,223  | 5,000  | 7,324  | 6,055  |
| Full Simulation Period Average <sup>a</sup> | 11,109 | 11,303 | 7,271  | 4,094  | 2,034 | 1,729 | 2,621 | 3,983  | 6,231  | 8,201  | 10,631 | 11,384 |
| Wet Water Years (28%)                       | 5,559  | 7,400  | 6,030  | 492    | 233   | 329   | 491   | 1,159  | 3,257  | 5,060  | 7,566  | 6,068  |
| Above Normal Years (14%)                    | 5,587  | 8,496  | 6,680  | 2,035  | 457   | 383   | 773   | 2,101  | 4,587  | 5,645  | 7,813  | 6,101  |
| Below Normal Years (18%)                    | 13,924 | 13,127 | 6,067  | 3,552  | 1,869 | 1,241 | 1,998 | 3,196  | 6,052  | 7,914  | 10,661 | 13,643 |
| Dry Water Years (24%)                       | 15,075 | 13,005 | 7,735  | 6,878  | 2,911 | 2,195 | 3,008 | 4,542  | 6,795  | 9,599  | 12,556 | 15,342 |
| Critical Water Years (16%)                  | 17,271 | 16,480 | 10,882 | 8,631  | 5,439 | 5,206 | 8,086 | 10,615 | 12,227 | 14,163 | 15,541 | 16,832 |

**Table F.2.5-13-4b. Chipps Island North Channel Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,058 | 16,237 | 13,146 | 10,588 | 5,677 | 5,374 | 6,497 | 9,428  | 12,623 | 14,292 | 15,534 | 16,746 |
| 20% Exceedance                              | 16,321 | 15,441 | 12,444 | 8,351  | 3,893 | 3,434 | 5,071 | 5,854  | 7,799  | 10,319 | 13,111 | 15,842 |
| 30% Exceedance                              | 15,711 | 14,957 | 11,724 | 6,213  | 1,794 | 1,518 | 3,093 | 5,587  | 7,287  | 9,447  | 12,706 | 15,542 |
| 40% Exceedance                              | 15,173 | 13,811 | 10,748 | 3,479  | 1,199 | 1,103 | 2,231 | 4,998  | 6,764  | 8,881  | 11,833 | 14,954 |
| 50% Exceedance                              | 13,919 | 9,911  | 7,912  | 2,213  | 683   | 731   | 1,553 | 3,896  | 5,983  | 7,778  | 10,419 | 13,775 |
| 60% Exceedance                              | 6,092  | 9,545  | 4,905  | 1,116  | 360   | 393   | 993   | 2,625  | 5,594  | 6,359  | 8,630  | 6,706  |
| 70% Exceedance                              | 5,903  | 9,101  | 2,468  | 435    | 222   | 265   | 586   | 1,642  | 5,116  | 5,972  | 8,216  | 6,522  |
| 80% Exceedance                              | 5,790  | 8,156  | 1,379  | 232    | 199   | 206   | 324   | 710    | 3,522  | 5,579  | 7,978  | 6,370  |
| 90% Exceedance                              | 5,545  | 5,137  | 707    | 193    | 188   | 187   | 217   | 372    | 2,233  | 5,075  | 7,696  | 6,253  |
| Full Simulation Period Average <sup>a</sup> | 11,148 | 11,179 | 7,247  | 3,904  | 1,913 | 1,735 | 2,677 | 4,208  | 6,276  | 8,230  | 10,725 | 11,545 |
| Wet Water Years (28%)                       | 5,580  | 7,373  | 6,042  | 453    | 233   | 334   | 550   | 1,339  | 3,287  | 5,160  | 7,809  | 6,194  |
| Above Normal Years (14%)                    | 5,564  | 8,259  | 6,735  | 2,019  | 455   | 382   | 865   | 2,451  | 4,594  | 5,790  | 8,043  | 6,419  |
| Below Normal Years (18%)                    | 13,982 | 12,757 | 5,959  | 3,573  | 1,794 | 1,210 | 2,116 | 3,720  | 6,194  | 7,835  | 10,540 | 13,856 |
| Dry Water Years (24%)                       | 15,163 | 13,020 | 7,795  | 6,574  | 2,662 | 2,167 | 3,117 | 4,811  | 6,957  | 9,670  | 12,688 | 15,533 |
| Critical Water Years (16%)                  | 17,299 | 16,364 | 10,676 | 7,962  | 5,136 | 5,316 | 7,953 | 10,411 | 12,050 | 14,018 | 15,437 | 16,814 |

**Table F.2.5-13-4c. Chipps Island North Channel Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|------|------|------|--------|------|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | -2   | -101 | 134  | -413   | -475 | 57  | -824 | -422 | 184  | 211  | 32   | 91  |
| 20% Exceedance                              | 114  | 147  | 225  | -1,141 | -283 | 71  | 42   | 263  | 18   | 315  | 73   | 53  |
| 30% Exceedance                              | 19   | -31  | 107  | 214    | -152 | 24  | 74   | 356  | 290  | -88  | 236  | 194 |
| 40% Exceedance                              | -32  | -40  | -52  | -33    | -46  | -45 | 167  | 506  | 235  | -282 | -141 | 42  |
| 50% Exceedance                              | -407 | -231 | -179 | -112   | -15  | -23 | 104  | 709  | 118  | -43  | 151  | 691 |
| 60% Exceedance                              | 4    | -103 | 133  | -164   | 2    | 0   | 78   | 373  | 83   | -25  | 196  | 64  |
| 70% Exceedance                              | -14  | -298 | -5   | 2      | 1    | 1   | 18   | 157  | 144  | 229  | 183  | 183 |
| 80% Exceedance                              | -23  | -202 | 20   | -1     | -2   | 1   | 13   | 66   | -23  | 162  | 322  | 172 |
| 90% Exceedance                              | -94  | -6   | -33  | 0      | 0    | 0   | 1    | 45   | 10   | 76   | 372  | 198 |
| Full Simulation Period Average <sup>a</sup> | 38   | -124 | -24  | -190   | -122 | 7   | 55   | 226  | 46   | 28   | 93   | 161 |
| Wet Water Years (28%)                       | 21   | -26  | 13   | -39    | 0    | 5   | 59   | 180  | 30   | 100  | 243  | 127 |
| Above Normal Years (14%)                    | -22  | -238 | 55   | -16    | -3   | -1  | 91   | 350  | 8    | 145  | 230  | 318 |
| Below Normal Years (18%)                    | 58   | -371 | -108 | 21     | -74  | -31 | 118  | 523  | 143  | -79  | -121 | 213 |
| Dry Water Years (24%)                       | 88   | 15   | 60   | -304   | -248 | -27 | 108  | 269  | 162  | 72   | 132  | 191 |
| Critical Water Years (16%)                  | 28   | -117 | -207 | -670   | -303 | 109 | -133 | -204 | -177 | -145 | -103 | -18 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-13-5a. Chipps Island North Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,060 | 16,338 | 13,012 | 11,001 | 6,152 | 5,317 | 7,320 | 9,850  | 12,439 | 14,080 | 15,503 | 16,655 |
| 20% Exceedance                              | 16,207 | 15,293 | 12,218 | 9,491  | 4,176 | 3,363 | 5,029 | 5,591  | 7,782  | 10,004 | 13,038 | 15,790 |
| 30% Exceedance                              | 15,692 | 14,988 | 11,617 | 5,999  | 1,945 | 1,494 | 3,020 | 5,231  | 6,997  | 9,535  | 12,470 | 15,348 |
| 40% Exceedance                              | 15,205 | 13,850 | 10,800 | 3,512  | 1,245 | 1,149 | 2,064 | 4,492  | 6,529  | 9,163  | 11,973 | 14,912 |
| 50% Exceedance                              | 14,326 | 10,142 | 8,092  | 2,324  | 698   | 754   | 1,449 | 3,187  | 5,865  | 7,822  | 10,268 | 13,084 |
| 60% Exceedance                              | 6,088  | 9,648  | 4,772  | 1,280  | 357   | 393   | 916   | 2,251  | 5,510  | 6,385  | 8,434  | 6,643  |
| 70% Exceedance                              | 5,917  | 9,399  | 2,473  | 434    | 221   | 264   | 568   | 1,485  | 4,972  | 5,743  | 8,033  | 6,339  |
| 80% Exceedance                              | 5,813  | 8,358  | 1,359  | 233    | 201   | 205   | 311   | 645    | 3,545  | 5,416  | 7,656  | 6,198  |
| 90% Exceedance                              | 5,639  | 5,144  | 740    | 193    | 188   | 187   | 216   | 328    | 2,223  | 5,000  | 7,324  | 6,055  |
| Full Simulation Period Average <sup>a</sup> | 11,109 | 11,303 | 7,271  | 4,094  | 2,034 | 1,729 | 2,621 | 3,983  | 6,231  | 8,201  | 10,631 | 11,384 |
| Wet Water Years (28%)                       | 5,559  | 7,400  | 6,030  | 492    | 233   | 329   | 491   | 1,159  | 3,257  | 5,060  | 7,566  | 6,068  |
| Above Normal Years (14%)                    | 5,587  | 8,496  | 6,680  | 2,035  | 457   | 383   | 773   | 2,101  | 4,587  | 5,645  | 7,813  | 6,101  |
| Below Normal Years (18%)                    | 13,924 | 13,127 | 6,067  | 3,552  | 1,869 | 1,241 | 1,998 | 3,196  | 6,052  | 7,914  | 10,661 | 13,643 |
| Dry Water Years (24%)                       | 15,075 | 13,005 | 7,735  | 6,878  | 2,911 | 2,195 | 3,008 | 4,542  | 6,795  | 9,599  | 12,556 | 15,342 |
| Critical Water Years (16%)                  | 17,271 | 16,480 | 10,882 | 8,631  | 5,439 | 5,206 | 8,086 | 10,615 | 12,227 | 14,163 | 15,541 | 16,832 |

**Table F.2.5-13-5b. Chipps Island North Channel Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 11,426 | 10,217 | 7,287 | 3,666 | 2,313 | 2,770 | 5,586 | 7,525 | 11,057 | 13,103 | 14,354 | 13,346 |
| 20% Exceedance                              | 9,709  | 8,001  | 5,079 | 2,674 | 1,602 | 1,548 | 3,687 | 6,463 | 10,178 | 12,098 | 13,321 | 11,779 |
| 30% Exceedance                              | 8,817  | 6,891  | 3,149 | 1,735 | 798   | 788   | 2,704 | 5,337 | 9,455  | 11,363 | 12,854 | 11,023 |
| 40% Exceedance                              | 7,663  | 6,053  | 1,915 | 892   | 531   | 553   | 1,888 | 3,556 | 7,987  | 10,373 | 11,663 | 10,132 |
| 50% Exceedance                              | 7,101  | 5,163  | 1,066 | 603   | 404   | 394   | 1,095 | 2,524 | 6,295  | 8,572  | 10,883 | 9,467  |
| 60% Exceedance                              | 6,251  | 4,295  | 686   | 378   | 274   | 309   | 634   | 1,647 | 5,155  | 7,671  | 9,899  | 8,627  |
| 70% Exceedance                              | 5,588  | 3,443  | 462   | 262   | 237   | 254   | 382   | 1,066 | 3,481  | 6,463  | 9,170  | 7,566  |
| 80% Exceedance                              | 4,978  | 2,666  | 314   | 218   | 213   | 221   | 295   | 479   | 1,922  | 5,080  | 8,086  | 6,553  |
| 90% Exceedance                              | 4,229  | 1,593  | 218   | 200   | 196   | 199   | 209   | 244   | 771    | 4,097  | 6,706  | 4,845  |
| Full Simulation Period Average <sup>a</sup> | 7,274  | 5,508  | 2,526 | 1,577 | 985   | 981   | 2,052 | 3,459 | 6,231  | 8,730  | 10,658 | 9,227  |
| Wet Water Years (28%)                       | 5,008  | 3,149  | 920   | 269   | 221   | 267   | 406   | 777   | 2,282  | 4,839  | 7,223  | 6,044  |
| Above Normal Years (14%)                    | 6,090  | 4,621  | 1,275 | 524   | 287   | 300   | 696   | 1,639 | 4,275  | 6,577  | 8,942  | 8,003  |
| Below Normal Years (18%)                    | 6,961  | 5,255  | 2,362 | 914   | 761   | 610   | 1,598 | 3,271 | 6,702  | 8,923  | 10,712 | 9,115  |
| Dry Water Years (24%)                       | 8,229  | 6,008  | 3,533 | 2,338 | 1,197 | 1,097 | 2,552 | 4,731 | 8,451  | 11,045 | 12,727 | 10,943 |
| Critical Water Years (16%)                  | 11,537 | 10,301 | 5,364 | 4,392 | 2,866 | 3,067 | 5,876 | 8,050 | 10,992 | 13,736 | 15,006 | 13,422 |

**Table F.2.5-13-5c. Chipps Island North Channel Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul   | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| 10% Exceedance                              | -5,634 | -6,121 | -5,725 | -7,335 | -3,839 | -2,547 | -1,734 | -2,325 | -1,382 | -978  | -1,148 | -3,309 |
| 20% Exceedance                              | -6,498 | -7,292 | -7,139 | -6,818 | -2,574 | -1,816 | -1,342 | 872    | 2,396  | 2,094 | 283    | -4,011 |
| 30% Exceedance                              | -6,875 | -8,097 | -8,469 | -4,264 | -1,147 | -706   | -316   | 106    | 2,458  | 1,828 | 384    | -4,325 |
| 40% Exceedance                              | -7,542 | -7,797 | -8,885 | -2,620 | -714   | -595   | -176   | -936   | 1,458  | 1,210 | -310   | -4,780 |
| 50% Exceedance                              | -7,225 | -4,979 | -7,026 | -1,722 | -294   | -360   | -355   | -662   | 430    | 750   | 615    | -3,617 |
| 60% Exceedance                              | 163    | -5,353 | -4,085 | -902   | -84    | -84    | -281   | -605   | -355   | 1,286 | 1,465  | 1,984  |
| 70% Exceedance                              | -329   | -5,956 | -2,011 | -172   | 16     | -10    | -187   | -419   | -1,491 | 720   | 1,137  | 1,226  |
| 80% Exceedance                              | -836   | -5,692 | -1,044 | -15    | 12     | 17     | -16    | -165   | -1,623 | -336  | 430    | 355    |
| 90% Exceedance                              | -1,410 | -3,551 | -522   | 7      | 8      | 11     | -7     | -84    | -1,452 | -903  | -618   | -1,210 |
| Full Simulation Period Average <sup>a</sup> | -3,835 | -5,795 | -4,745 | -2,517 | -1,050 | -748   | -570   | -523   | 0      | 529   | 27     | -2,157 |
| Wet Water Years (28%)                       | -551   | -4,251 | -5,109 | -223   | -12    | -62    | -85    | -382   | -975   | -221  | -343   | -24    |
| Above Normal Years (14%)                    | 504    | -3,875 | -5,405 | -1,511 | -171   | -83    | -77    | -462   | -312   | 932   | 1,130  | 1,902  |
| Below Normal Years (18%)                    | -6,963 | -7,872 | -3,705 | -2,638 | -1,108 | -631   | -400   | 75     | 650    | 1,009 | 50     | -4,528 |
| Dry Water Years (24%)                       | -6,846 | -6,997 | -4,202 | -4,540 | -1,714 | -1,097 | -456   | 189    | 1,656  | 1,446 | 171    | -4,399 |
| Critical Water Years (16%)                  | -5,734 | -6,179 | -5,518 | -4,240 | -2,572 | -2,139 | -2,211 | -2,566 | -1,235 | -428  | -535   | -3,410 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-13-6a. Chipps Island North Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 22,499 | 21,754 | 13,072 | 4,543 | 1,928 | 1,652 | 3,163 | 8,503 | 16,039 | 21,533 | 24,287 | 24,069 |
| 20% Exceedance                              | 21,204 | 17,271 | 8,389  | 2,880 | 1,207 | 871   | 1,605 | 5,640 | 13,389 | 20,148 | 23,772 | 23,192 |
| 30% Exceedance                              | 18,547 | 12,423 | 5,728  | 2,086 | 523   | 446   | 1,189 | 3,822 | 10,785 | 19,372 | 23,073 | 22,470 |
| 40% Exceedance                              | 15,256 | 10,152 | 3,939  | 886   | 413   | 364   | 741   | 2,787 | 9,156  | 17,273 | 22,435 | 21,469 |
| 50% Exceedance                              | 12,775 | 8,317  | 2,377  | 608   | 325   | 302   | 431   | 1,584 | 7,299  | 15,967 | 21,677 | 19,971 |
| 60% Exceedance                              | 9,861  | 6,974  | 1,301  | 396   | 253   | 252   | 319   | 948   | 5,214  | 13,613 | 20,476 | 17,291 |
| 70% Exceedance                              | 7,996  | 5,919  | 808    | 274   | 228   | 226   | 255   | 590   | 3,267  | 11,157 | 18,391 | 13,752 |
| 80% Exceedance                              | 6,941  | 3,336  | 478    | 222   | 208   | 211   | 221   | 314   | 1,577  | 8,564  | 14,474 | 11,885 |
| 90% Exceedance                              | 5,363  | 1,866  | 274    | 205   | 196   | 190   | 188   | 197   | 602    | 5,813  | 11,704 | 9,048  |
| Full Simulation Period Average <sup>a</sup> | 13,429 | 10,100 | 4,684  | 2,013 | 926   | 682   | 1,267 | 3,180 | 7,733  | 14,581 | 19,581 | 17,717 |
| Wet Water Years (28%)                       | 7,251  | 5,277  | 2,737  | 259   | 211   | 227   | 266   | 616   | 2,321  | 8,124  | 13,909 | 10,860 |
| Above Normal Years (14%)                    | 10,005 | 7,150  | 2,797  | 577   | 255   | 244   | 372   | 1,071 | 4,505  | 12,409 | 18,594 | 15,599 |
| Below Normal Years (18%)                    | 13,993 | 9,370  | 3,944  | 1,332 | 652   | 405   | 708   | 2,799 | 8,228  | 15,864 | 21,263 | 19,079 |
| Dry Water Years (24%)                       | 16,489 | 11,588 | 6,138  | 2,355 | 867   | 683   | 1,242 | 3,819 | 10,409 | 18,107 | 22,658 | 21,754 |
| Critical Water Years (16%)                  | 22,812 | 20,546 | 8,766  | 6,590 | 3,161 | 2,174 | 4,471 | 8,979 | 15,458 | 21,047 | 23,864 | 23,981 |

**Table F.2.5-13-6b. Chipps Island North Channel Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,578 | 15,706 | 13,197 | 10,965 | 5,678 | 4,213 | 5,877 | 7,532 | 9,082  | 11,429 | 14,259 | 16,663 |
| 20% Exceedance                              | 16,346 | 15,411 | 12,308 | 8,144  | 3,906 | 2,830 | 4,272 | 5,853 | 7,693  | 10,109 | 13,111 | 15,843 |
| 30% Exceedance                              | 15,703 | 14,959 | 11,632 | 5,320  | 2,020 | 1,471 | 2,989 | 5,588 | 7,276  | 9,403  | 12,712 | 15,547 |
| 40% Exceedance                              | 15,234 | 13,785 | 10,758 | 3,628  | 1,173 | 1,073 | 2,234 | 5,105 | 6,603  | 9,094  | 11,836 | 15,017 |
| 50% Exceedance                              | 14,023 | 9,911  | 7,928  | 2,294  | 683   | 732   | 1,554 | 3,896 | 5,983  | 7,779  | 10,420 | 13,844 |
| 60% Exceedance                              | 6,093  | 9,545  | 4,907  | 1,132  | 360   | 395   | 991   | 2,625 | 5,594  | 6,360  | 8,628  | 6,708  |
| 70% Exceedance                              | 5,904  | 9,102  | 2,468  | 435    | 221   | 264   | 588   | 1,643 | 5,118  | 5,972  | 8,215  | 6,524  |
| 80% Exceedance                              | 5,790  | 8,159  | 1,372  | 232    | 199   | 206   | 324   | 711   | 3,523  | 5,581  | 7,964  | 6,370  |
| 90% Exceedance                              | 5,543  | 5,105  | 708    | 193    | 188   | 187   | 217   | 372   | 2,252  | 5,076  | 7,696  | 6,252  |
| Full Simulation Period Average <sup>a</sup> | 11,203 | 11,110 | 7,222  | 3,974  | 1,933 | 1,622 | 2,383 | 3,922 | 6,052  | 7,963  | 10,555 | 11,559 |
| Wet Water Years (28%)                       | 5,580  | 7,373  | 6,046  | 453    | 233   | 334   | 550   | 1,339 | 3,288  | 5,160  | 7,808  | 6,194  |
| Above Normal Years (14%)                    | 5,565  | 8,260  | 6,733  | 2,024  | 458   | 385   | 866   | 2,453 | 4,596  | 5,788  | 8,042  | 6,419  |
| Below Normal Years (18%)                    | 14,036 | 12,759 | 5,922  | 3,638  | 1,814 | 1,218 | 2,117 | 3,720 | 6,198  | 7,856  | 10,592 | 13,941 |
| Dry Water Years (24%)                       | 15,164 | 13,030 | 7,730  | 6,488  | 2,657 | 2,167 | 3,117 | 4,814 | 6,959  | 9,671  | 12,692 | 15,536 |
| Critical Water Years (16%)                  | 17,602 | 15,887 | 10,654 | 8,447  | 5,250 | 4,593 | 6,120 | 8,617 | 10,637 | 12,329 | 14,315 | 16,802 |

**Table F.2.5-13-6c. Chipps Island North Channel Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| 10% Exceedance                              | -4,922 | -6,047 | 124   | 6,422 | 3,750 | 2,561 | 2,714 | -972  | -6,957 | -10,104 | -10,027 | -7,406  |
| 20% Exceedance                              | -4,858 | -1,859 | 3,919 | 5,264 | 2,699 | 1,959 | 2,667 | 213   | -5,696 | -10,039 | -10,661 | -7,349  |
| 30% Exceedance                              | -2,845 | 2,537  | 5,904 | 3,234 | 1,496 | 1,025 | 1,800 | 1,766 | -3,509 | -9,969  | -10,362 | -6,922  |
| 40% Exceedance                              | -22    | 3,632  | 6,818 | 2,741 | 760   | 710   | 1,493 | 2,318 | -2,554 | -8,179  | -10,599 | -6,452  |
| 50% Exceedance                              | 1,248  | 1,594  | 5,552 | 1,686 | 358   | 430   | 1,124 | 2,312 | -1,316 | -8,188  | -11,258 | -6,127  |
| 60% Exceedance                              | -3,768 | 2,571  | 3,606 | 736   | 107   | 143   | 672   | 1,676 | 380    | -7,254  | -11,848 | -10,583 |
| 70% Exceedance                              | -2,092 | 3,182  | 1,660 | 161   | -7    | 38    | 333   | 1,053 | 1,851  | -5,185  | -10,177 | -7,228  |
| 80% Exceedance                              | -1,151 | 4,823  | 894   | 10    | -10   | -5    | 104   | 396   | 1,946  | -2,983  | -6,510  | -5,515  |
| 90% Exceedance                              | 181    | 3,239  | 434   | -12   | -8    | -2    | 29    | 175   | 1,649  | -738    | -4,007  | -2,796  |
| Full Simulation Period Average <sup>a</sup> | -2,226 | 1,010  | 2,538 | 1,961 | 1,007 | 939   | 1,116 | 743   | -1,681 | -6,618  | -9,026  | -6,157  |
| Wet Water Years (28%)                       | -1,671 | 2,096  | 3,309 | 194   | 21    | 107   | 284   | 723   | 966    | -2,964  | -6,102  | -4,667  |
| Above Normal Years (14%)                    | -4,440 | 1,110  | 3,936 | 1,447 | 203   | 140   | 494   | 1,381 | 91     | -6,621  | -10,551 | -9,179  |
| Below Normal Years (18%)                    | 43     | 3,389  | 1,977 | 2,306 | 1,162 | 812   | 1,408 | 922   | -2,031 | -8,008  | -10,671 | -5,138  |
| Dry Water Years (24%)                       | -1,325 | 1,442  | 1,592 | 4,132 | 1,789 | 1,485 | 1,875 | 995   | -3,449 | -8,436  | -9,966  | -6,218  |
| Critical Water Years (16%)                  | -5,210 | -4,659 | 1,889 | 1,857 | 2,090 | 2,419 | 1,649 | -363  | -4,821 | -8,718  | -9,548  | -7,178  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-13-7a. Chipps Island North Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 22,499 | 21,754 | 13,072 | 4,543 | 1,928 | 1,652 | 3,163 | 8,503 | 16,039 | 21,533 | 24,287 | 24,069 |
| 20% Exceedance                              | 21,204 | 17,271 | 8,389  | 2,880 | 1,207 | 871   | 1,605 | 5,640 | 13,389 | 20,148 | 23,772 | 23,192 |
| 30% Exceedance                              | 18,547 | 12,423 | 5,728  | 2,086 | 523   | 446   | 1,189 | 3,822 | 10,785 | 19,372 | 23,073 | 22,470 |
| 40% Exceedance                              | 15,256 | 10,152 | 3,939  | 886   | 413   | 364   | 741   | 2,787 | 9,156  | 17,273 | 22,435 | 21,469 |
| 50% Exceedance                              | 12,775 | 8,317  | 2,377  | 608   | 325   | 302   | 431   | 1,584 | 7,299  | 15,967 | 21,677 | 19,971 |
| 60% Exceedance                              | 9,861  | 6,974  | 1,301  | 396   | 253   | 252   | 319   | 948   | 5,214  | 13,613 | 20,476 | 17,291 |
| 70% Exceedance                              | 7,996  | 5,919  | 808    | 274   | 228   | 226   | 255   | 590   | 3,267  | 11,157 | 18,391 | 13,752 |
| 80% Exceedance                              | 6,941  | 3,336  | 478    | 222   | 208   | 211   | 221   | 314   | 1,577  | 8,564  | 14,474 | 11,885 |
| 90% Exceedance                              | 5,363  | 1,866  | 274    | 205   | 196   | 190   | 188   | 197   | 602    | 5,813  | 11,704 | 9,048  |
| Full Simulation Period Average <sup>a</sup> | 13,429 | 10,100 | 4,684  | 2,013 | 926   | 682   | 1,267 | 3,180 | 7,733  | 14,581 | 19,581 | 17,717 |
| Wet Water Years (28%)                       | 7,251  | 5,277  | 2,737  | 259   | 211   | 227   | 266   | 616   | 2,321  | 8,124  | 13,909 | 10,860 |
| Above Normal Years (14%)                    | 10,005 | 7,150  | 2,797  | 577   | 255   | 244   | 372   | 1,071 | 4,505  | 12,409 | 18,594 | 15,599 |
| Below Normal Years (18%)                    | 13,993 | 9,370  | 3,944  | 1,332 | 652   | 405   | 708   | 2,799 | 8,228  | 15,864 | 21,263 | 19,079 |
| Dry Water Years (24%)                       | 16,489 | 11,588 | 6,138  | 2,355 | 867   | 683   | 1,242 | 3,819 | 10,409 | 18,107 | 22,658 | 21,754 |
| Critical Water Years (16%)                  | 22,812 | 20,546 | 8,766  | 6,590 | 3,161 | 2,174 | 4,471 | 8,979 | 15,458 | 21,047 | 23,864 | 23,981 |

**Table F.2.5-13-7b. Chipps Island North Channel Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,635 | 15,803 | 12,743 | 10,795 | 6,078 | 4,073 | 5,560 | 7,530 | 9,071  | 11,378 | 14,257 | 16,661 |
| 20% Exceedance                              | 16,269 | 15,376 | 12,234 | 8,267  | 3,887 | 2,572 | 3,740 | 5,793 | 7,914  | 10,111 | 13,137 | 15,836 |
| 30% Exceedance                              | 15,783 | 15,017 | 11,543 | 5,354  | 2,033 | 1,417 | 2,859 | 5,495 | 7,319  | 9,488  | 12,683 | 15,512 |
| 40% Exceedance                              | 15,018 | 13,679 | 10,752 | 3,609  | 1,178 | 1,032 | 1,954 | 4,653 | 6,574  | 9,171  | 11,803 | 15,060 |
| 50% Exceedance                              | 14,390 | 9,922  | 7,871  | 2,498  | 682   | 707   | 1,408 | 3,664 | 5,960  | 7,802  | 10,350 | 13,784 |
| 60% Exceedance                              | 6,104  | 9,522  | 4,922  | 1,156  | 364   | 385   | 891   | 2,592 | 5,620  | 6,387  | 8,604  | 6,682  |
| 70% Exceedance                              | 5,909  | 9,096  | 2,466  | 433    | 222   | 260   | 540   | 1,651 | 5,163  | 5,864  | 8,189  | 6,500  |
| 80% Exceedance                              | 5,789  | 8,156  | 1,398  | 233    | 199   | 206   | 320   | 698   | 3,511  | 5,464  | 7,920  | 6,340  |
| 90% Exceedance                              | 5,549  | 5,145  | 719    | 194    | 188   | 187   | 209   | 375   | 2,273  | 5,044  | 7,561  | 6,232  |
| Full Simulation Period Average <sup>a</sup> | 11,207 | 11,124 | 7,210  | 4,013  | 1,996 | 1,529 | 2,239 | 3,851 | 6,075  | 7,948  | 10,526 | 11,548 |
| Wet Water Years (28%)                       | 5,585  | 7,376  | 6,042  | 473    | 234   | 329   | 526   | 1,333 | 3,311  | 5,124  | 7,781  | 6,183  |
| Above Normal Years (14%)                    | 5,568  | 8,260  | 6,635  | 2,027  | 460   | 376   | 685   | 2,237 | 4,643  | 5,720  | 7,956  | 6,395  |
| Below Normal Years (18%)                    | 14,001 | 12,729 | 5,950  | 3,653  | 1,839 | 1,035 | 1,870 | 3,678 | 6,250  | 7,881  | 10,549 | 13,907 |
| Dry Water Years (24%)                       | 15,168 | 13,042 | 7,659  | 6,570  | 2,714 | 1,930 | 2,837 | 4,678 | 6,962  | 9,682  | 12,682 | 15,535 |
| Critical Water Years (16%)                  | 17,648 | 15,987 | 10,762 | 8,513  | 5,528 | 4,590 | 6,115 | 8,625 | 10,640 | 12,311 | 14,317 | 16,810 |

**Table F.2.5-13-7c. Chipps Island North Channel Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| 10% Exceedance                              | -4,865 | -5,950 | -329  | 6,253 | 4,150 | 2,421 | 2,397 | -973  | -6,968 | -10,155 | -10,030 | -7,408  |
| 20% Exceedance                              | -4,935 | -1,894 | 3,844 | 5,387 | 2,679 | 1,700 | 2,135 | 153   | -5,475 | -10,037 | -10,635 | -7,356  |
| 30% Exceedance                              | -2,765 | 2,595  | 5,815 | 3,269 | 1,509 | 971   | 1,669 | 1,673 | -3,466 | -9,884  | -10,390 | -6,958  |
| 40% Exceedance                              | -238   | 3,527  | 6,812 | 2,723 | 764   | 669   | 1,213 | 1,866 | -2,582 | -8,102  | -10,632 | -6,409  |
| 50% Exceedance                              | 1,615  | 1,605  | 5,494 | 1,890 | 357   | 405   | 977   | 2,080 | -1,338 | -8,166  | -11,328 | -6,187  |
| 60% Exceedance                              | -3,757 | 2,548  | 3,621 | 760   | 111   | 133   | 572   | 1,644 | 407    | -7,226  | -11,873 | -10,609 |
| 70% Exceedance                              | -2,087 | 3,177  | 1,658 | 159   | -7    | 34    | 286   | 1,061 | 1,896  | -5,293  | -10,202 | -7,251  |
| 80% Exceedance                              | -1,151 | 4,820  | 920   | 10    | -10   | -5    | 99    | 383   | 1,934  | -3,100  | -6,553  | -5,545  |
| 90% Exceedance                              | 186    | 3,279  | 446   | -11   | -8    | -2    | 22    | 178   | 1,671  | -770    | -4,142  | -2,816  |
| Full Simulation Period Average <sup>a</sup> | -2,222 | 1,024  | 2,527 | 2,000 | 1,070 | 846   | 972   | 672   | -1,658 | -6,633  | -9,055  | -6,169  |
| Wet Water Years (28%)                       | -1,666 | 2,100  | 3,305 | 214   | 23    | 103   | 261   | 717   | 990    | -3,001  | -6,128  | -4,678  |
| Above Normal Years (14%)                    | -4,437 | 1,110  | 3,838 | 1,450 | 205   | 132   | 313   | 1,166 | 138    | -6,689  | -10,638 | -9,203  |
| Below Normal Years (18%)                    | 8      | 3,359  | 2,006 | 2,322 | 1,186 | 629   | 1,161 | 879   | -1,978 | -7,983  | -10,713 | -5,172  |
| Dry Water Years (24%)                       | -1,321 | 1,454  | 1,521 | 4,214 | 1,846 | 1,248 | 1,596 | 859   | -3,447 | -8,425  | -9,975  | -6,219  |
| Critical Water Years (16%)                  | -5,164 | -4,559 | 1,996 | 1,923 | 2,367 | 2,416 | 1,644 | -355  | -4,818 | -8,735  | -9,547  | -7,171  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-13-8a. Chipps Island North Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 22,499 | 21,754 | 13,072 | 4,543 | 1,928 | 1,652 | 3,163 | 8,503 | 16,039 | 21,533 | 24,287 | 24,069 |
| <b>20% Exceedance</b>                             | 21,204 | 17,271 | 8,389  | 2,880 | 1,207 | 871   | 1,605 | 5,640 | 13,389 | 20,148 | 23,772 | 23,192 |
| <b>30% Exceedance</b>                             | 18,547 | 12,423 | 5,728  | 2,086 | 523   | 446   | 1,189 | 3,822 | 10,785 | 19,372 | 23,073 | 22,470 |
| <b>40% Exceedance</b>                             | 15,256 | 10,152 | 3,939  | 886   | 413   | 364   | 741   | 2,787 | 9,156  | 17,273 | 22,435 | 21,469 |
| <b>50% Exceedance</b>                             | 12,775 | 8,317  | 2,377  | 608   | 325   | 302   | 431   | 1,584 | 7,299  | 15,967 | 21,677 | 19,971 |
| <b>60% Exceedance</b>                             | 9,861  | 6,974  | 1,301  | 396   | 253   | 252   | 319   | 948   | 5,214  | 13,613 | 20,476 | 17,291 |
| <b>70% Exceedance</b>                             | 7,996  | 5,919  | 808    | 274   | 228   | 226   | 255   | 590   | 3,267  | 11,157 | 18,391 | 13,752 |
| <b>80% Exceedance</b>                             | 6,941  | 3,336  | 478    | 222   | 208   | 211   | 221   | 314   | 1,577  | 8,564  | 14,474 | 11,885 |
| <b>90% Exceedance</b>                             | 5,363  | 1,866  | 274    | 205   | 196   | 190   | 188   | 197   | 602    | 5,813  | 11,704 | 9,048  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 13,429 | 10,100 | 4,684  | 2,013 | 926   | 682   | 1,267 | 3,180 | 7,733  | 14,581 | 19,581 | 17,717 |
| <b>Wet Water Years (28%)</b>                      | 7,251  | 5,277  | 2,737  | 259   | 211   | 227   | 266   | 616   | 2,321  | 8,124  | 13,909 | 10,860 |
| <b>Above Normal Years (14%)</b>                   | 10,005 | 7,150  | 2,797  | 577   | 255   | 244   | 372   | 1,071 | 4,505  | 12,409 | 18,594 | 15,599 |
| <b>Below Normal Years (18%)</b>                   | 13,993 | 9,370  | 3,944  | 1,332 | 652   | 405   | 708   | 2,799 | 8,228  | 15,864 | 21,263 | 19,079 |
| <b>Dry Water Years (24%)</b>                      | 16,489 | 11,588 | 6,138  | 2,355 | 867   | 683   | 1,242 | 3,819 | 10,409 | 18,107 | 22,658 | 21,754 |
| <b>Critical Water Years (16%)</b>                 | 22,812 | 20,546 | 8,766  | 6,590 | 3,161 | 2,174 | 4,471 | 8,979 | 15,458 | 21,047 | 23,864 | 23,981 |

**Table F.2.5-13-8b. Chipps Island North Channel Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 17,569 | 16,037 | 12,811 | 10,775 | 6,045 | 3,954 | 5,224 | 7,212 | 8,441  | 11,506 | 14,198 | 16,635 |
| <b>20% Exceedance</b>                             | 16,202 | 15,439 | 12,054 | 8,641  | 3,895 | 2,522 | 3,475 | 5,296 | 7,593  | 10,081 | 13,101 | 15,818 |
| <b>30% Exceedance</b>                             | 15,686 | 15,025 | 11,568 | 5,382  | 2,026 | 1,399 | 2,443 | 4,931 | 7,151  | 9,603  | 12,711 | 15,539 |
| <b>40% Exceedance</b>                             | 15,033 | 13,712 | 10,668 | 3,577  | 1,172 | 1,019 | 1,588 | 4,051 | 6,375  | 9,242  | 11,806 | 15,089 |
| <b>50% Exceedance</b>                             | 14,242 | 9,925  | 7,854  | 2,475  | 682   | 721   | 1,161 | 2,904 | 5,956  | 7,896  | 10,273 | 13,760 |
| <b>60% Exceedance</b>                             | 6,105  | 9,507  | 4,915  | 1,204  | 364   | 388   | 766   | 2,107 | 5,572  | 6,244  | 8,588  | 6,682  |
| <b>70% Exceedance</b>                             | 5,911  | 9,079  | 2,459  | 430    | 222   | 261   | 497   | 1,520 | 4,961  | 5,847  | 8,170  | 6,494  |
| <b>80% Exceedance</b>                             | 5,785  | 8,159  | 1,416  | 231    | 199   | 206   | 303   | 636   | 3,538  | 5,459  | 7,881  | 6,345  |
| <b>90% Exceedance</b>                             | 5,554  | 5,200  | 670    | 194    | 188   | 187   | 209   | 372   | 2,317  | 5,024  | 7,488  | 6,214  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 11,184 | 11,140 | 7,194  | 4,012  | 2,022 | 1,516 | 2,010 | 3,430 | 5,903  | 7,929  | 10,485 | 11,515 |
| <b>Wet Water Years (28%)</b>                      | 5,580  | 7,380  | 6,040  | 478    | 234   | 331   | 519   | 1,299 | 3,307  | 5,113  | 7,757  | 6,178  |
| <b>Above Normal Years (14%)</b>                   | 5,579  | 8,253  | 6,619  | 2,010  | 459   | 376   | 603   | 1,864 | 4,517  | 5,678  | 7,854  | 6,394  |
| <b>Below Normal Years (18%)</b>                   | 13,967 | 12,839 | 5,894  | 3,598  | 1,840 | 1,027 | 1,455 | 3,002 | 6,065  | 7,895  | 10,487 | 13,776 |
| <b>Dry Water Years (24%)</b>                      | 15,126 | 12,897 | 7,597  | 6,467  | 2,738 | 1,898 | 2,438 | 4,104 | 6,739  | 9,714  | 12,687 | 15,524 |
| <b>Critical Water Years (16%)</b>                 | 17,601 | 16,193 | 10,837 | 8,730  | 5,650 | 4,563 | 5,831 | 8,000 | 10,221 | 12,191 | 14,255 | 16,778 |

**Table F.2.5-13-8c. Chipps Island North Channel Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| <b>10% Exceedance</b>                             | -4,930 | -5,717 | -261  | 6,232 | 4,117 | 2,302 | 2,061 | -1,291 | -7,598 | -10,026 | -10,089 | -7,434  |
| <b>20% Exceedance</b>                             | -5,002 | -1,832 | 3,665 | 5,761 | 2,688 | 1,651 | 1,869 | -344   | -5,796 | -10,067 | -10,671 | -7,375  |
| <b>30% Exceedance</b>                             | -2,862 | 2,602  | 5,839 | 3,296 | 1,502 | 953   | 1,253 | 1,108  | -3,634 | -9,768  | -10,362 | -6,930  |
| <b>40% Exceedance</b>                             | -223   | 3,560  | 6,729 | 2,691 | 759   | 655   | 847   | 1,264  | -2,781 | -8,032  | -10,629 | -6,380  |
| <b>50% Exceedance</b>                             | 1,467  | 1,607  | 5,477 | 1,866 | 357   | 419   | 731   | 1,320  | -1,343 | -8,072  | -11,404 | -6,211  |
| <b>60% Exceedance</b>                             | -3,756 | 2,534  | 3,614 | 808   | 111   | 136   | 447   | 1,159  | 359    | -7,370  | -11,888 | -10,609 |
| <b>70% Exceedance</b>                             | -2,085 | 3,159  | 1,651 | 156   | -7    | 35    | 242   | 930    | 1,694  | -5,310  | -10,221 | -7,258  |
| <b>80% Exceedance</b>                             | -1,156 | 4,824  | 938   | 9     | -9    | -5    | 83    | 322    | 1,961  | -3,104  | -6,592  | -5,540  |
| <b>90% Exceedance</b>                             | 192    | 3,334  | 396   | -11   | -8    | -2    | 22    | 175    | 1,715  | -789    | -4,216  | -2,834  |
| <b>Full Simulation Period Average<sup>a</sup></b> | -2,245 | 1,040  | 2,510 | 1,999 | 1,096 | 833   | 743   | 251    | -1,830 | -6,651  | -9,096  | -6,202  |
| <b>Wet Water Years (28%)</b>                      | -1,672 | 2,103  | 3,303 | 219   | 23    | 104   | 253   | 683    | 986    | -3,012  | -6,152  | -4,682  |
| <b>Above Normal Years (14%)</b>                   | -4,426 | 1,103  | 3,822 | 1,433 | 204   | 132   | 231   | 792    | 12     | -6,731  | -10,740 | -9,205  |
| <b>Below Normal Years (18%)</b>                   | -25    | 3,469  | 1,950 | 2,267 | 1,187 | 622   | 747   | 204    | -2,163 | -7,969  | -10,775 | -5,303  |
| <b>Dry Water Years (24%)</b>                      | -1,363 | 1,308  | 1,459 | 4,112 | 1,871 | 1,215 | 1,197 | 285    | -3,670 | -8,393  | -9,970  | -6,229  |
| <b>Critical Water Years (16%)</b>                 | -5,211 | -4,353 | 2,071 | 2,140 | 2,489 | 2,389 | 1,360 | -979   | -5,237 | -8,856  | -9,608  | -7,203  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-13-9a. Chipps Island North Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 22,499 | 21,754 | 13,072 | 4,543 | 1,928 | 1,652 | 3,163 | 8,503 | 16,039 | 21,533 | 24,287 | 24,069 |
| 20% Exceedance                              | 21,204 | 17,271 | 8,389  | 2,880 | 1,207 | 871   | 1,605 | 5,640 | 13,389 | 20,148 | 23,772 | 23,192 |
| 30% Exceedance                              | 18,547 | 12,423 | 5,728  | 2,086 | 523   | 446   | 1,189 | 3,822 | 10,785 | 19,372 | 23,073 | 22,470 |
| 40% Exceedance                              | 15,256 | 10,152 | 3,939  | 886   | 413   | 364   | 741   | 2,787 | 9,156  | 17,273 | 22,435 | 21,469 |
| 50% Exceedance                              | 12,775 | 8,317  | 2,377  | 608   | 325   | 302   | 431   | 1,584 | 7,299  | 15,967 | 21,677 | 19,971 |
| 60% Exceedance                              | 9,861  | 6,974  | 1,301  | 396   | 253   | 252   | 319   | 948   | 5,214  | 13,613 | 20,476 | 17,291 |
| 70% Exceedance                              | 7,996  | 5,919  | 808    | 274   | 228   | 226   | 255   | 590   | 3,267  | 11,157 | 18,391 | 13,752 |
| 80% Exceedance                              | 6,941  | 3,336  | 478    | 222   | 208   | 211   | 221   | 314   | 1,577  | 8,564  | 14,474 | 11,885 |
| 90% Exceedance                              | 5,363  | 1,866  | 274    | 205   | 196   | 190   | 188   | 197   | 602    | 5,813  | 11,704 | 9,048  |
| Full Simulation Period Average <sup>a</sup> | 13,429 | 10,100 | 4,684  | 2,013 | 926   | 682   | 1,267 | 3,180 | 7,733  | 14,581 | 19,581 | 17,717 |
| Wet Water Years (28%)                       | 7,251  | 5,277  | 2,737  | 259   | 211   | 227   | 266   | 616   | 2,321  | 8,124  | 13,909 | 10,860 |
| Above Normal Years (14%)                    | 10,005 | 7,150  | 2,797  | 577   | 255   | 244   | 372   | 1,071 | 4,505  | 12,409 | 18,594 | 15,599 |
| Below Normal Years (18%)                    | 13,993 | 9,370  | 3,944  | 1,332 | 652   | 405   | 708   | 2,799 | 8,228  | 15,864 | 21,263 | 19,079 |
| Dry Water Years (24%)                       | 16,489 | 11,588 | 6,138  | 2,355 | 867   | 683   | 1,242 | 3,819 | 10,409 | 18,107 | 22,658 | 21,754 |
| Critical Water Years (16%)                  | 22,812 | 20,546 | 8,766  | 6,590 | 3,161 | 2,174 | 4,471 | 8,979 | 15,458 | 21,047 | 23,864 | 23,981 |

**Table F.2.5-13-9b. Chipps Island North Channel Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 17,058 | 16,237 | 13,146 | 10,588 | 5,677 | 5,374 | 6,497 | 9,428  | 12,623 | 14,292 | 15,534 | 16,746 |
| 20% Exceedance                              | 16,321 | 15,441 | 12,444 | 8,351  | 3,893 | 3,434 | 5,071 | 5,854  | 7,799  | 10,319 | 13,111 | 15,842 |
| 30% Exceedance                              | 15,711 | 14,957 | 11,724 | 6,213  | 1,794 | 1,518 | 3,093 | 5,587  | 7,287  | 9,447  | 12,706 | 15,542 |
| 40% Exceedance                              | 15,173 | 13,811 | 10,748 | 3,479  | 1,199 | 1,103 | 2,231 | 4,998  | 6,764  | 8,881  | 11,833 | 14,954 |
| 50% Exceedance                              | 13,919 | 9,911  | 7,912  | 2,213  | 683   | 731   | 1,553 | 3,896  | 5,983  | 7,778  | 10,419 | 13,775 |
| 60% Exceedance                              | 6,092  | 9,545  | 4,905  | 1,116  | 360   | 393   | 993   | 2,625  | 5,594  | 6,359  | 8,630  | 6,706  |
| 70% Exceedance                              | 5,903  | 9,101  | 2,468  | 435    | 222   | 265   | 586   | 1,642  | 5,116  | 5,972  | 8,216  | 6,522  |
| 80% Exceedance                              | 5,790  | 8,156  | 1,379  | 232    | 199   | 206   | 324   | 710    | 3,522  | 5,579  | 7,978  | 6,370  |
| 90% Exceedance                              | 5,545  | 5,137  | 707    | 193    | 188   | 187   | 217   | 372    | 2,233  | 5,075  | 7,696  | 6,253  |
| Full Simulation Period Average <sup>a</sup> | 11,148 | 11,179 | 7,247  | 3,904  | 1,913 | 1,735 | 2,677 | 4,208  | 6,276  | 8,230  | 10,725 | 11,545 |
| Wet Water Years (28%)                       | 5,580  | 7,373  | 6,042  | 453    | 233   | 334   | 550   | 1,339  | 3,287  | 5,160  | 7,809  | 6,194  |
| Above Normal Years (14%)                    | 5,564  | 8,259  | 6,735  | 2,019  | 455   | 382   | 865   | 2,451  | 4,594  | 5,790  | 8,043  | 6,419  |
| Below Normal Years (18%)                    | 13,982 | 12,757 | 5,959  | 3,573  | 1,794 | 1,210 | 2,116 | 3,720  | 6,194  | 7,835  | 10,540 | 13,856 |
| Dry Water Years (24%)                       | 15,163 | 13,020 | 7,795  | 6,574  | 2,662 | 2,167 | 3,117 | 4,811  | 6,957  | 9,670  | 12,688 | 15,533 |
| Critical Water Years (16%)                  | 17,299 | 16,364 | 10,676 | 7,962  | 5,136 | 5,316 | 7,953 | 10,411 | 12,050 | 14,018 | 15,437 | 16,814 |

**Table F.2.5-13-9c. Chipps Island North Channel Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|
| 10% Exceedance                              | -5,441 | -5,516 | 73    | 6,045 | 3,749 | 3,722 | 3,333 | 925   | -3,416 | -7,241 | -8,752  | -7,323  |
| 20% Exceedance                              | -4,883 | -1,830 | 4,054 | 5,470 | 2,686 | 2,563 | 3,466 | 214   | -5,590 | -9,829 | -10,661 | -7,350  |
| 30% Exceedance                              | -2,836 | 2,534  | 5,996 | 4,128 | 1,270 | 1,072 | 1,904 | 1,765 | -3,498 | -9,925 | -10,368 | -6,927  |
| 40% Exceedance                              | -83    | 3,658  | 6,809 | 2,592 | 785   | 740   | 1,490 | 2,212 | -2,392 | -8,393 | -10,602 | -6,515  |
| 50% Exceedance                              | 1,144  | 1,594  | 5,536 | 1,604 | 357   | 429   | 1,123 | 2,311 | -1,316 | -8,189 | -11,258 | -6,196  |
| 60% Exceedance                              | -3,769 | 2,571  | 3,604 | 720   | 107   | 141   | 675   | 1,676 | 380    | -7,254 | -11,847 | -10,585 |
| 70% Exceedance                              | -2,092 | 3,182  | 1,660 | 161   | -7    | 39    | 331   | 1,052 | 1,849  | -5,185 | -10,175 | -7,229  |
| 80% Exceedance                              | -1,150 | 4,820  | 901   | 10    | -10   | -5    | 103   | 396   | 1,945  | -2,985 | -6,495  | -5,514  |
| 90% Exceedance                              | 182    | 3,271  | 434   | -12   | -8    | -2    | 29    | 175   | 1,630  | -738   | -4,008  | -2,795  |
| Full Simulation Period Average <sup>a</sup> | -2,281 | 1,079  | 2,563 | 1,892 | 986   | 1,053 | 1,409 | 1,029 | -1,457 | -6,351 | -8,856  | -6,171  |
| Wet Water Years (28%)                       | -1,671 | 2,097  | 3,305 | 194   | 21    | 107   | 284   | 723   | 966    | -2,964 | -6,100  | -4,666  |
| Above Normal Years (14%)                    | -4,441 | 1,109  | 3,938 | 1,442 | 200   | 137   | 493   | 1,380 | 89     | -6,619 | -10,551 | -9,180  |
| Below Normal Years (18%)                    | -11    | 3,387  | 2,014 | 2,241 | 1,142 | 804   | 1,408 | 921   | -2,034 | -8,029 | -10,722 | -5,222  |
| Dry Water Years (24%)                       | -1,326 | 1,432  | 1,657 | 4,219 | 1,795 | 1,485 | 1,875 | 992   | -3,452 | -8,437 | -9,970  | -6,221  |
| Critical Water Years (16%)                  | -5,513 | -4,182 | 1,910 | 1,372 | 1,975 | 3,142 | 3,483 | 1,432 | -3,408 | -7,029 | -8,426  | -7,167  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-13-10a. Chipps Island North Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 22,499 | 21,754 | 13,072 | 4,543 | 1,928 | 1,652 | 3,163 | 8,503 | 16,039 | 21,533 | 24,287 | 24,069 |
| <b>20% Exceedance</b>                             | 21,204 | 17,271 | 8,389  | 2,880 | 1,207 | 871   | 1,605 | 5,640 | 13,389 | 20,148 | 23,772 | 23,192 |
| <b>30% Exceedance</b>                             | 18,547 | 12,423 | 5,728  | 2,086 | 523   | 446   | 1,189 | 3,822 | 10,785 | 19,372 | 23,073 | 22,470 |
| <b>40% Exceedance</b>                             | 15,256 | 10,152 | 3,939  | 886   | 413   | 364   | 741   | 2,787 | 9,156  | 17,273 | 22,435 | 21,469 |
| <b>50% Exceedance</b>                             | 12,775 | 8,317  | 2,377  | 608   | 325   | 302   | 431   | 1,584 | 7,299  | 15,967 | 21,677 | 19,971 |
| <b>60% Exceedance</b>                             | 9,861  | 6,974  | 1,301  | 396   | 253   | 252   | 319   | 948   | 5,214  | 13,613 | 20,476 | 17,291 |
| <b>70% Exceedance</b>                             | 7,996  | 5,919  | 808    | 274   | 228   | 226   | 255   | 590   | 3,267  | 11,157 | 18,391 | 13,752 |
| <b>80% Exceedance</b>                             | 6,941  | 3,336  | 478    | 222   | 208   | 211   | 221   | 314   | 1,577  | 8,564  | 14,474 | 11,885 |
| <b>90% Exceedance</b>                             | 5,363  | 1,866  | 274    | 205   | 196   | 190   | 188   | 197   | 602    | 5,813  | 11,704 | 9,048  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 13,429 | 10,100 | 4,684  | 2,013 | 926   | 682   | 1,267 | 3,180 | 7,733  | 14,581 | 19,581 | 17,717 |
| <b>Wet Water Years (28%)</b>                      | 7,251  | 5,277  | 2,737  | 259   | 211   | 227   | 266   | 616   | 2,321  | 8,124  | 13,909 | 10,860 |
| <b>Above Normal Years (14%)</b>                   | 10,005 | 7,150  | 2,797  | 577   | 255   | 244   | 372   | 1,071 | 4,505  | 12,409 | 18,594 | 15,599 |
| <b>Below Normal Years (18%)</b>                   | 13,993 | 9,370  | 3,944  | 1,332 | 652   | 405   | 708   | 2,799 | 8,228  | 15,864 | 21,263 | 19,079 |
| <b>Dry Water Years (24%)</b>                      | 16,489 | 11,588 | 6,138  | 2,355 | 867   | 683   | 1,242 | 3,819 | 10,409 | 18,107 | 22,658 | 21,754 |
| <b>Critical Water Years (16%)</b>                 | 22,812 | 20,546 | 8,766  | 6,590 | 3,161 | 2,174 | 4,471 | 8,979 | 15,458 | 21,047 | 23,864 | 23,981 |

**Table F.2.5-13-10b. Chipps Island North Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 17,060 | 16,338 | 13,012 | 11,001 | 6,152 | 5,317 | 7,320 | 9,850  | 12,439 | 14,080 | 15,503 | 16,655 |
| <b>20% Exceedance</b>                             | 16,207 | 15,293 | 12,218 | 9,491  | 4,176 | 3,363 | 5,029 | 5,591  | 7,782  | 10,004 | 13,038 | 15,790 |
| <b>30% Exceedance</b>                             | 15,692 | 14,988 | 11,617 | 5,999  | 1,945 | 1,494 | 3,020 | 5,231  | 6,997  | 9,535  | 12,470 | 15,348 |
| <b>40% Exceedance</b>                             | 15,205 | 13,850 | 10,800 | 3,512  | 1,245 | 1,149 | 2,064 | 4,492  | 6,529  | 9,163  | 11,973 | 14,912 |
| <b>50% Exceedance</b>                             | 14,326 | 10,142 | 8,092  | 2,324  | 698   | 754   | 1,449 | 3,187  | 5,865  | 7,822  | 10,268 | 13,084 |
| <b>60% Exceedance</b>                             | 6,088  | 9,648  | 4,772  | 1,280  | 357   | 393   | 916   | 2,251  | 5,510  | 6,385  | 8,434  | 6,643  |
| <b>70% Exceedance</b>                             | 5,917  | 9,399  | 2,473  | 434    | 221   | 264   | 568   | 1,485  | 4,972  | 5,743  | 8,033  | 6,339  |
| <b>80% Exceedance</b>                             | 5,813  | 8,358  | 1,359  | 233    | 201   | 205   | 311   | 645    | 3,545  | 5,416  | 7,656  | 6,198  |
| <b>90% Exceedance</b>                             | 5,639  | 5,144  | 740    | 193    | 188   | 187   | 216   | 328    | 2,223  | 5,000  | 7,324  | 6,055  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 11,109 | 11,303 | 7,271  | 4,094  | 2,034 | 1,729 | 2,621 | 3,983  | 6,231  | 8,201  | 10,631 | 11,384 |
| <b>Wet Water Years (28%)</b>                      | 5,559  | 7,400  | 6,030  | 492    | 233   | 329   | 491   | 1,159  | 3,257  | 5,060  | 7,566  | 6,068  |
| <b>Above Normal Years (14%)</b>                   | 5,587  | 8,496  | 6,680  | 2,035  | 457   | 383   | 773   | 2,101  | 4,587  | 5,645  | 7,813  | 6,101  |
| <b>Below Normal Years (18%)</b>                   | 13,924 | 13,127 | 6,067  | 3,552  | 1,869 | 1,241 | 1,998 | 3,196  | 6,052  | 7,914  | 10,661 | 13,643 |
| <b>Dry Water Years (24%)</b>                      | 15,075 | 13,005 | 7,735  | 6,878  | 2,911 | 2,195 | 3,008 | 4,542  | 6,795  | 9,599  | 12,556 | 15,342 |
| <b>Critical Water Years (16%)</b>                 | 17,271 | 16,480 | 10,882 | 8,631  | 5,439 | 5,206 | 8,086 | 10,615 | 12,227 | 14,163 | 15,541 | 16,832 |

**Table F.2.5-13-10c. Chipps Island North Channel Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| <b>10% Exceedance</b>                             | -5,439 | -5,416 | -61   | 6,458 | 4,224 | 3,665 | 4,157 | 1,347 | -3,600 | -7,452  | -8,784  | -7,414  |
| <b>20% Exceedance</b>                             | -4,997 | -1,977 | 3,829 | 6,611 | 2,969 | 2,492 | 3,424 | -50   | -5,607 | -10,144 | -10,734 | -7,403  |
| <b>30% Exceedance</b>                             | -2,856 | 2,565  | 5,889 | 3,913 | 1,422 | 1,048 | 1,830 | 1,409 | -3,788 | -9,837  | -10,604 | -7,121  |
| <b>40% Exceedance</b>                             | -51    | 3,698  | 6,861 | 2,626 | 832   | 785   | 1,323 | 1,705 | -2,627 | -8,110  | -10,462 | -6,557  |
| <b>50% Exceedance</b>                             | 1,551  | 1,825  | 5,715 | 1,716 | 372   | 452   | 1,019 | 1,603 | -1,434 | -8,146  | -11,409 | -6,887  |
| <b>60% Exceedance</b>                             | -3,773 | 2,675  | 3,471 | 884   | 105   | 141   | 597   | 1,303 | 297    | -7,228  | -12,043 | -10,649 |
| <b>70% Exceedance</b>                             | -2,079 | 3,479  | 1,665 | 160   | -7    | 38    | 313   | 895   | 1,705  | -5,414  | -10,358 | -7,412  |
| <b>80% Exceedance</b>                             | -1,127 | 5,022  | 881   | 11    | -8    | -6    | 90    | 330   | 1,968  | -3,147  | -6,818  | -5,687  |
| <b>90% Exceedance</b>                             | 277    | 3,277  | 466   | -12   | -8    | -2    | 28    | 130   | 1,621  | -814    | -4,380  | -2,993  |
| <b>Full Simulation Period Average<sup>a</sup></b> | -2,319 | 1,203  | 2,587 | 2,081 | 1,108 | 1,046 | 1,354 | 803   | -1,502 | -6,379  | -8,950  | -6,333  |
| <b>Wet Water Years (28%)</b>                      | -1,692 | 2,123  | 3,292 | 233   | 21    | 102   | 225   | 543   | 936    | -3,065  | -6,343  | -4,793  |
| <b>Above Normal Years (14%)</b>                   | -4,418 | 1,346  | 3,883 | 1,458 | 203   | 138   | 401   | 1,030 | 82     | -6,764  | -10,781 | -9,498  |
| <b>Below Normal Years (18%)</b>                   | -69    | 3,757  | 2,123 | 2,221 | 1,216 | 835   | 1,290 | 398   | -2,177 | -7,950  | -10,601 | -5,436  |
| <b>Dry Water Years (24%)</b>                      | -1,414 | 1,417  | 1,597 | 4,522 | 2,043 | 1,512 | 1,767 | 723   | -3,613 | -8,508  | -10,101 | -6,412  |
| <b>Critical Water Years (16%)</b>                 | -5,541 | -4,066 | 2,117 | 2,041 | 2,278 | 3,032 | 3,615 | 1,636 | -3,231 | -6,884  | -8,323  | -7,149  |

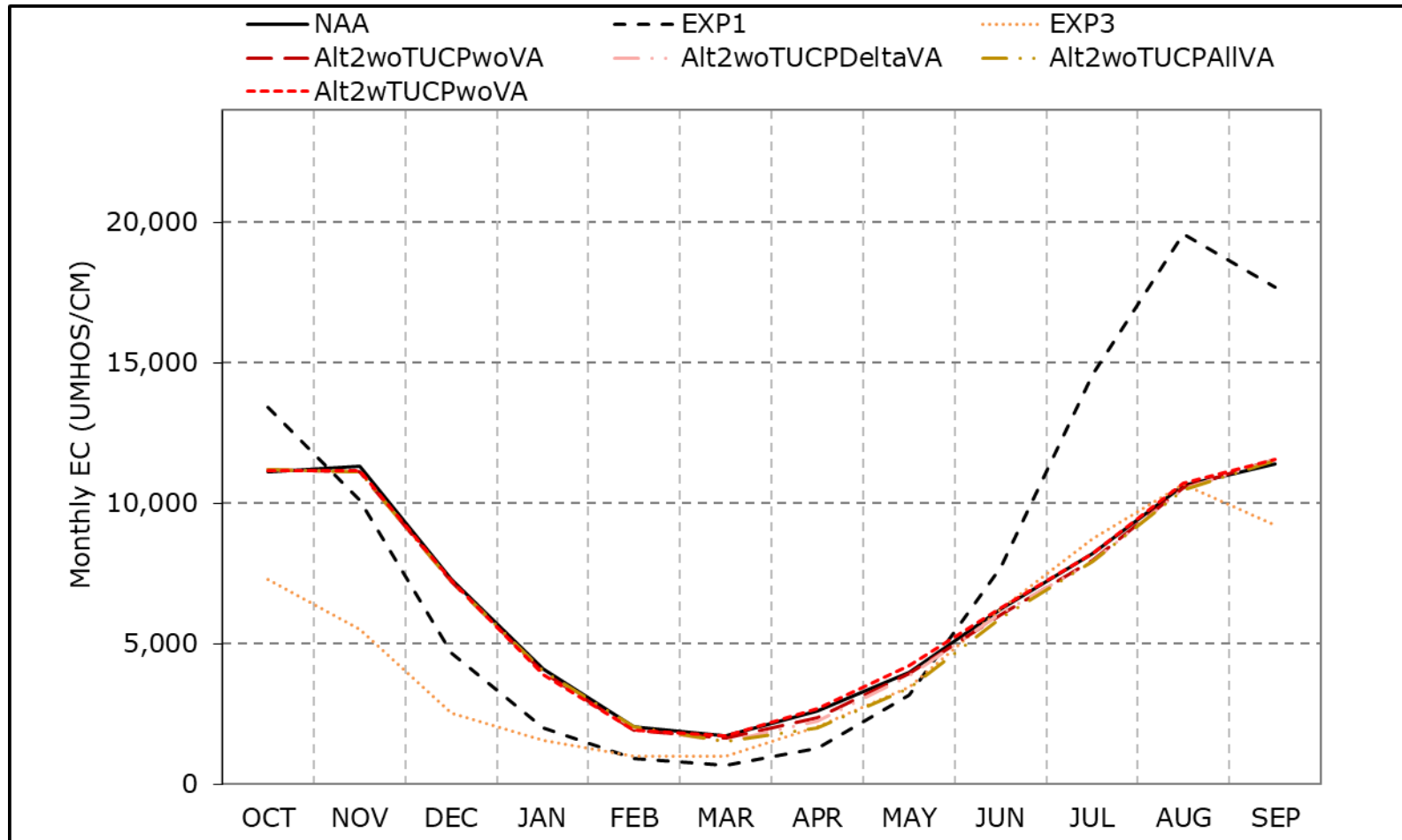
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-13-1. Chipps Island North Channel Salinity, Long-Term Average EC**

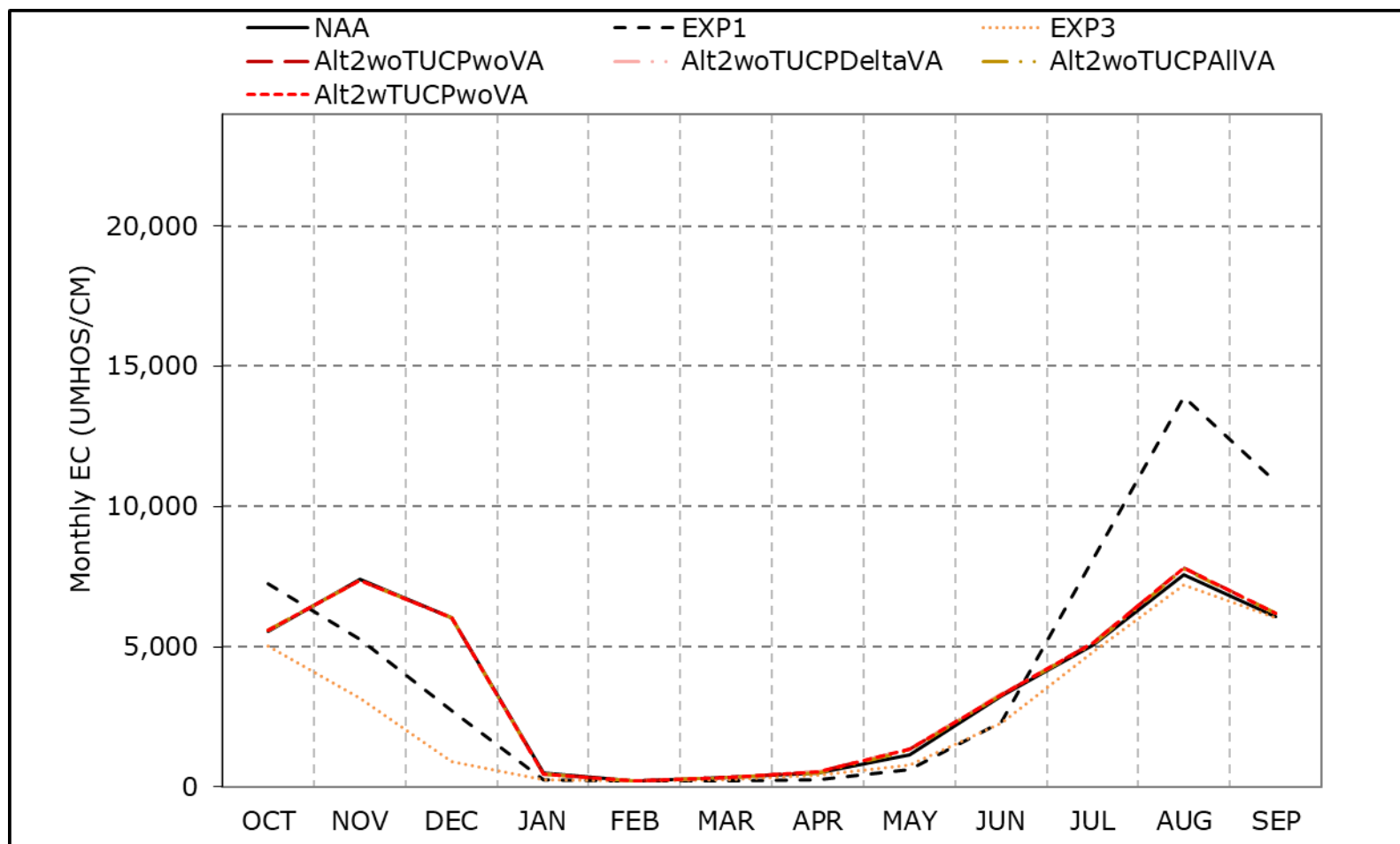


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-2. Chipps Island North Channel Salinity, Wet Year Average EC**

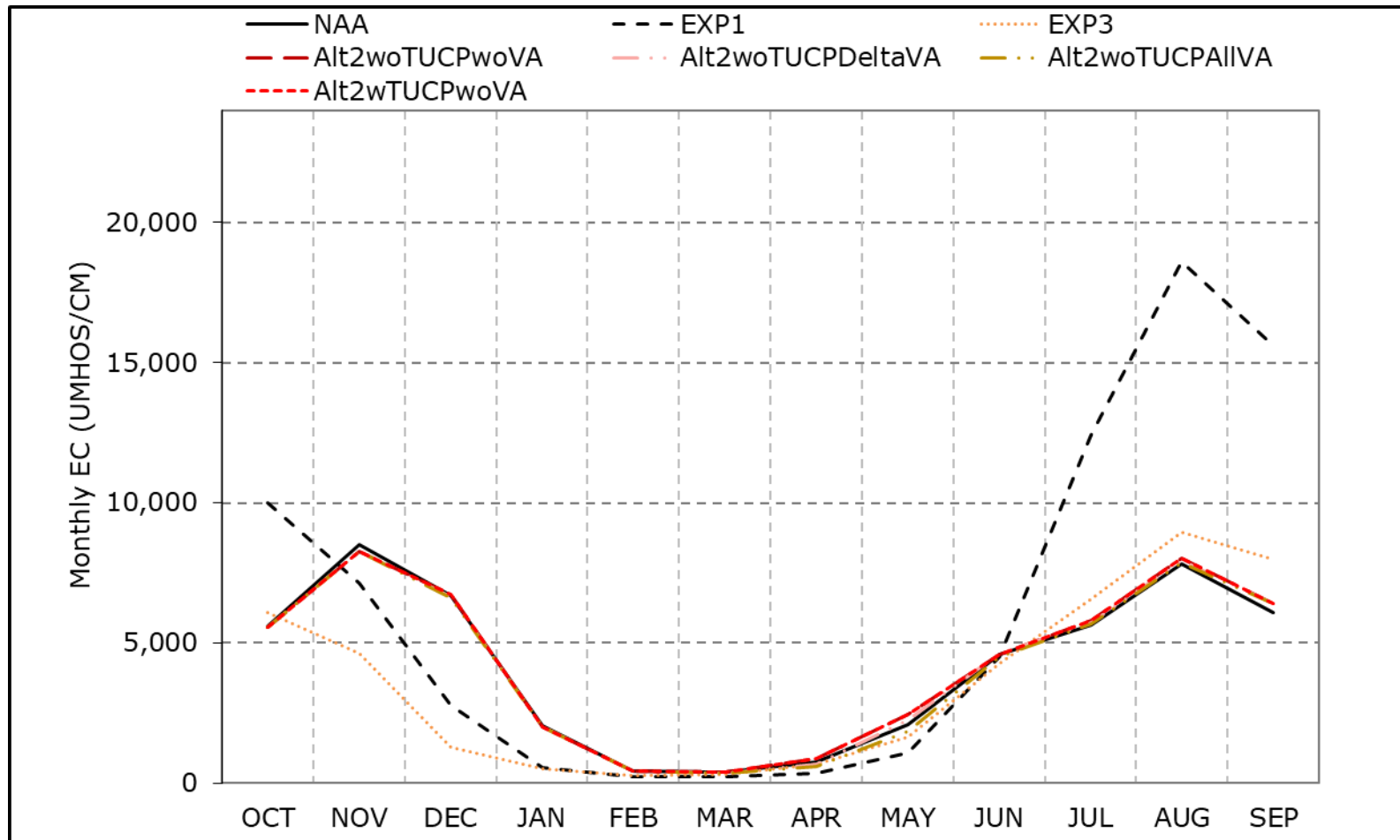


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-3. Chipps Island North Channel Salinity, Above Normal Year Average EC**

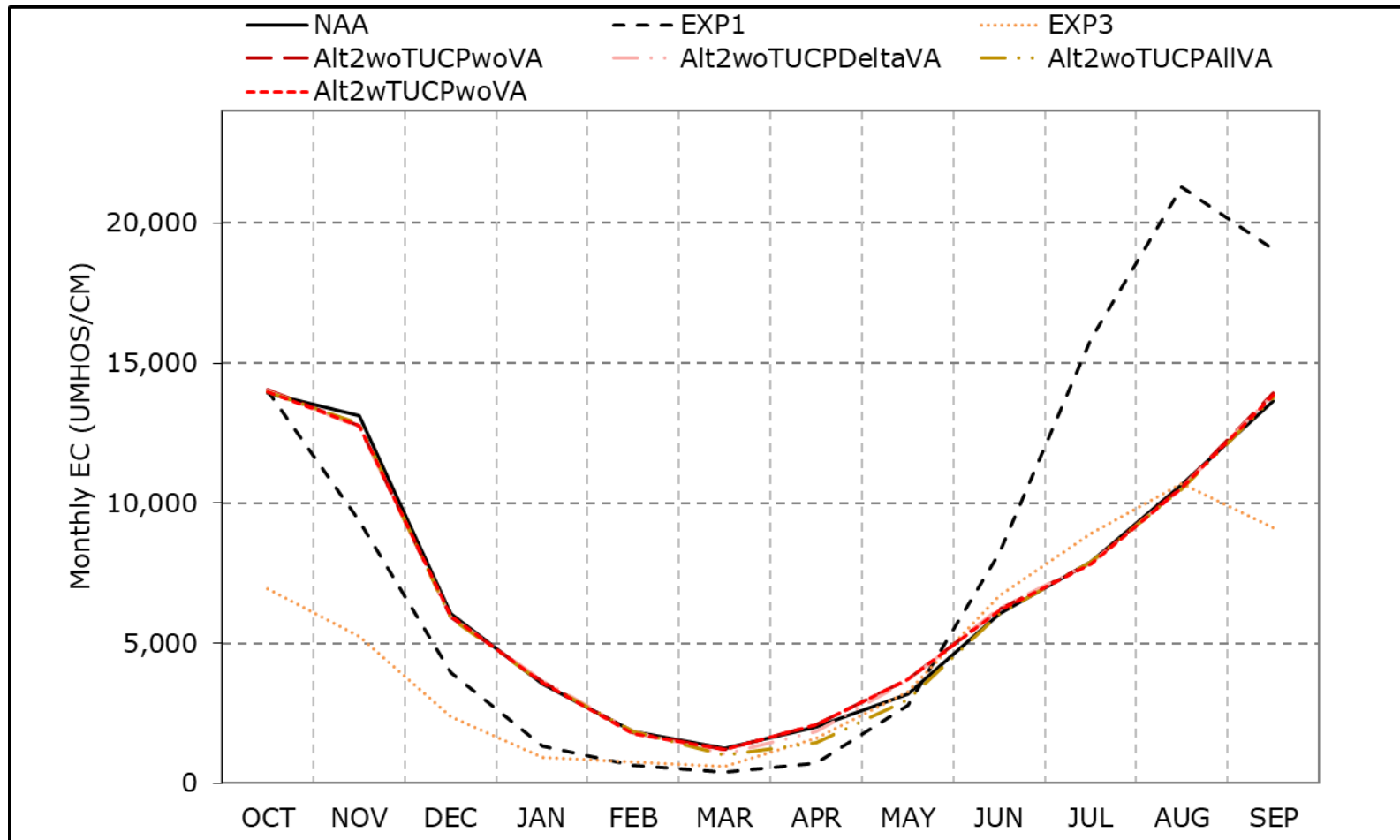


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-4. Chipps Island North Channel Salinity, Below Normal Year Average EC**



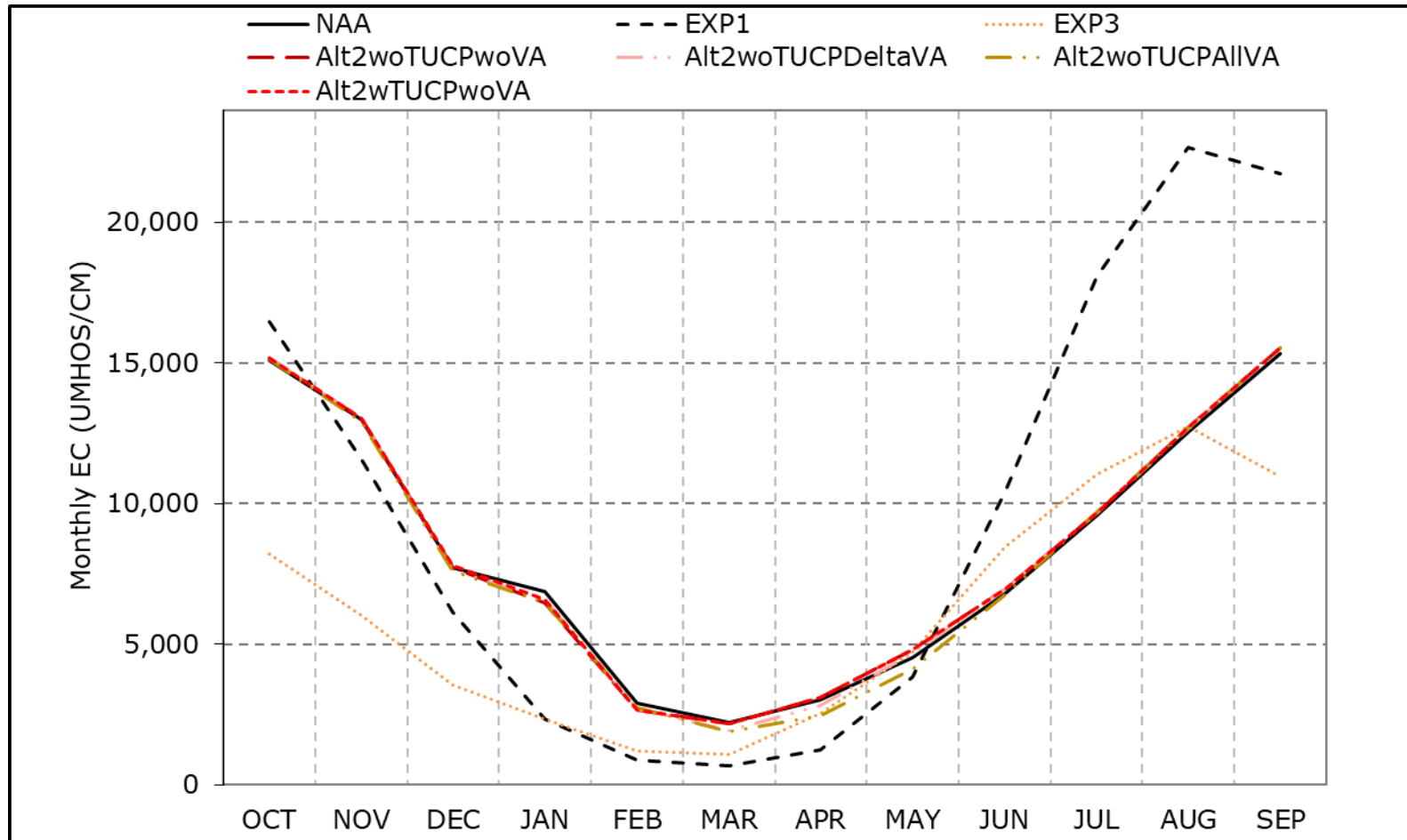
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-13-5. Chipps Island North Channel Salinity, Dry Year Average EC**

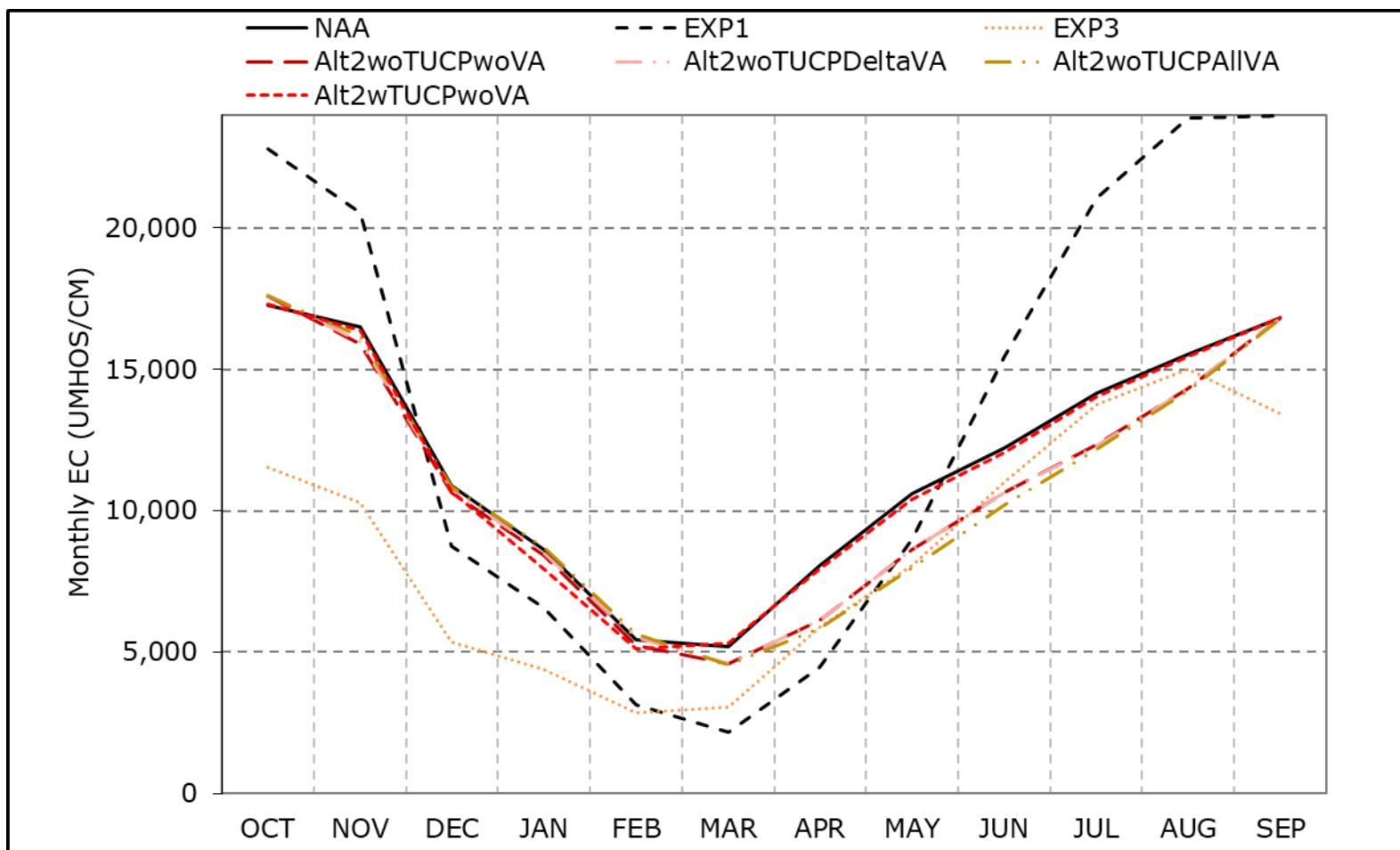


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-6. Chipps Island North Channel Salinity, Critical Year Average EC**

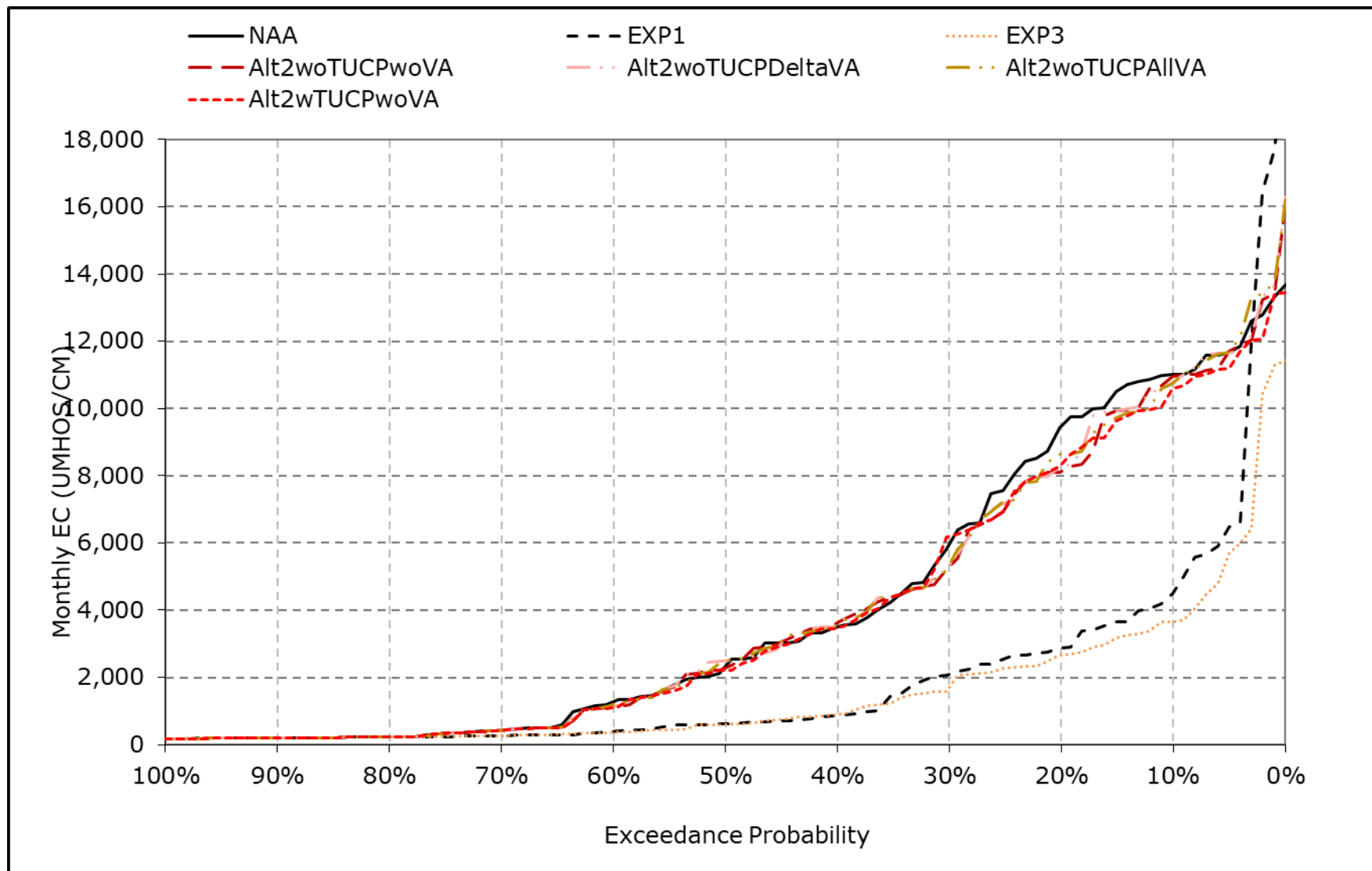


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

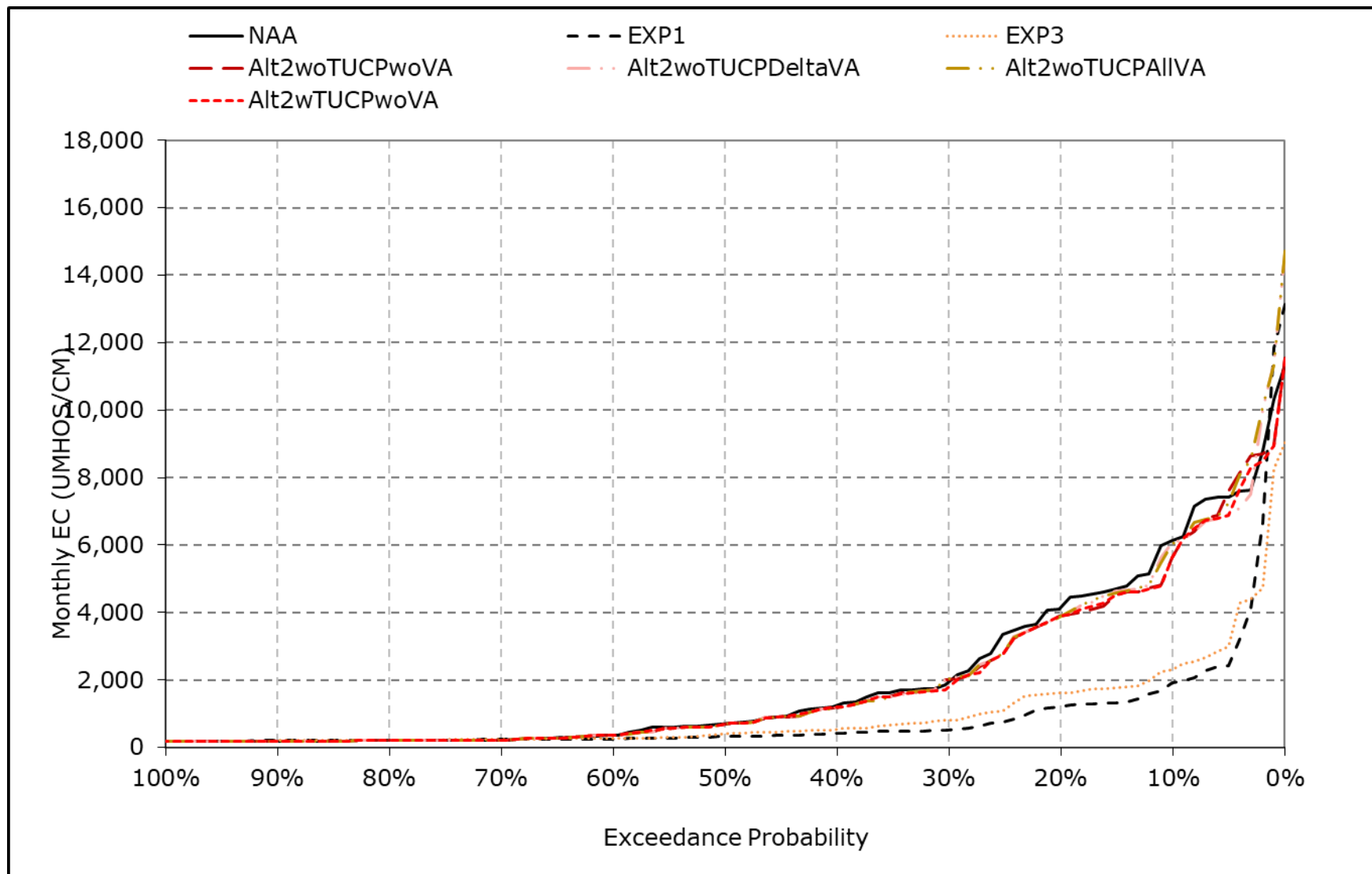
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-7. Chipps Island North Channel Salinity, January EC**



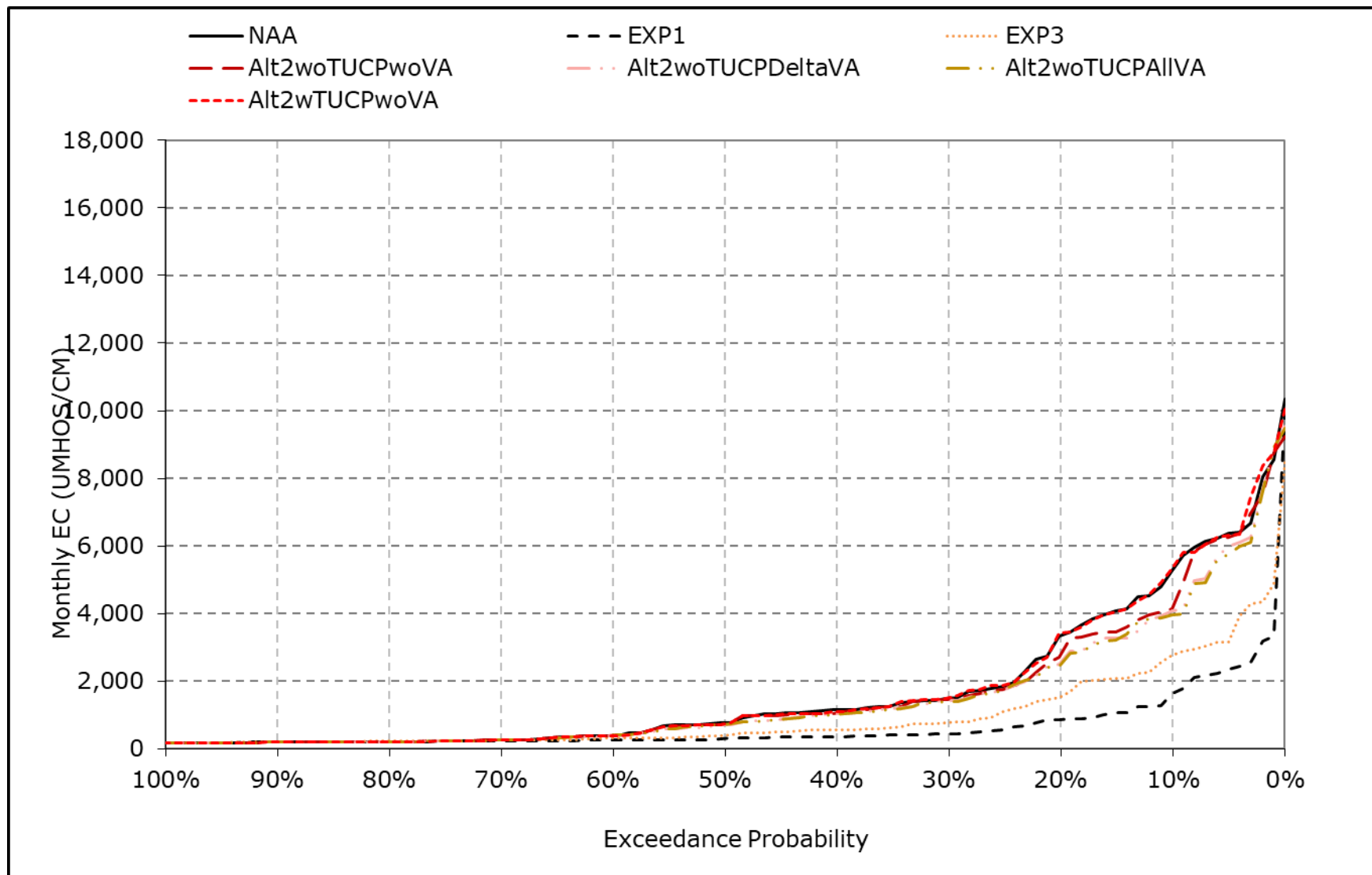
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-8. Chipps Island North Channel Salinity, February EC**



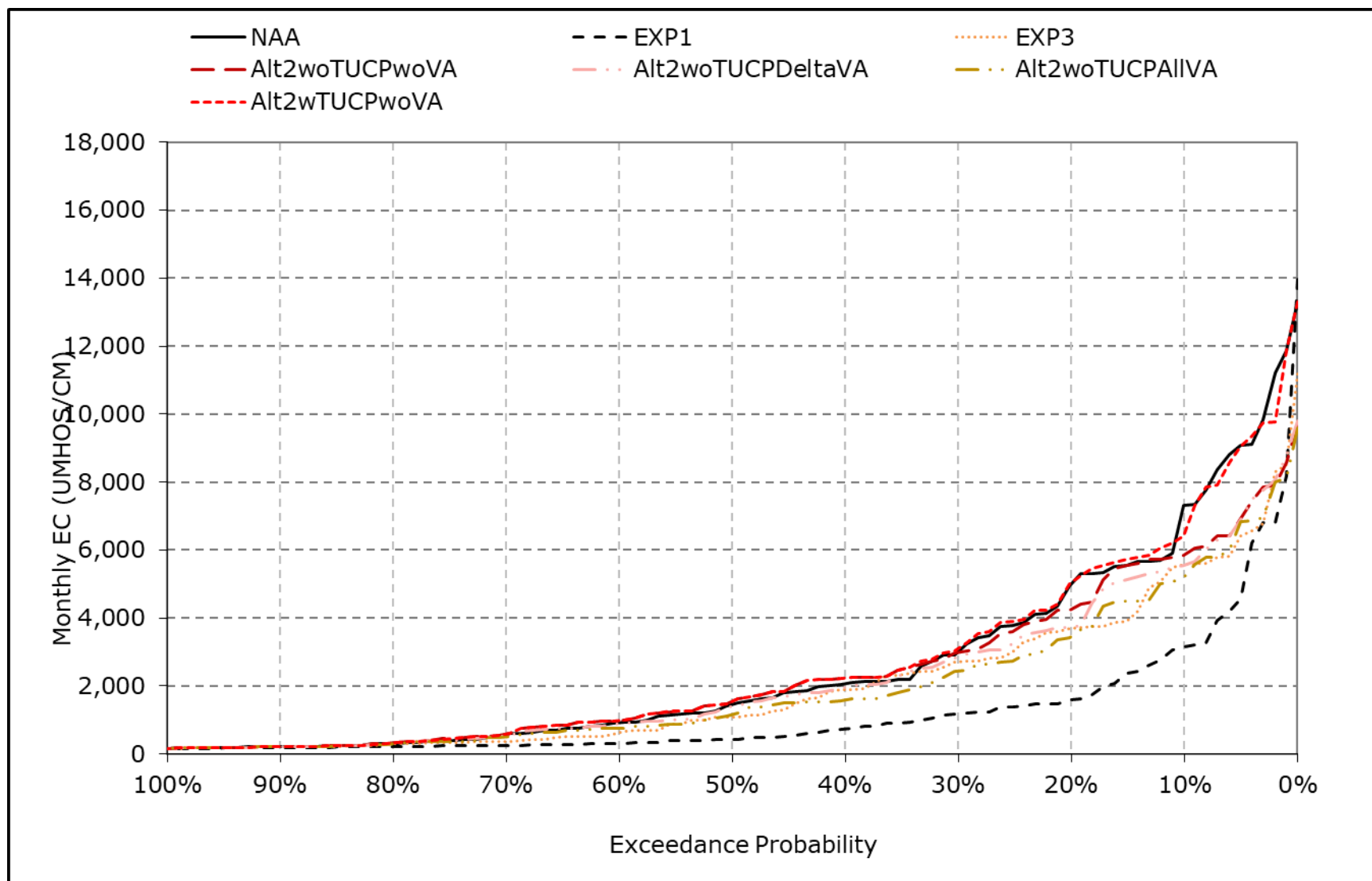
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-9. Chipps Island North Channel Salinity, March EC**



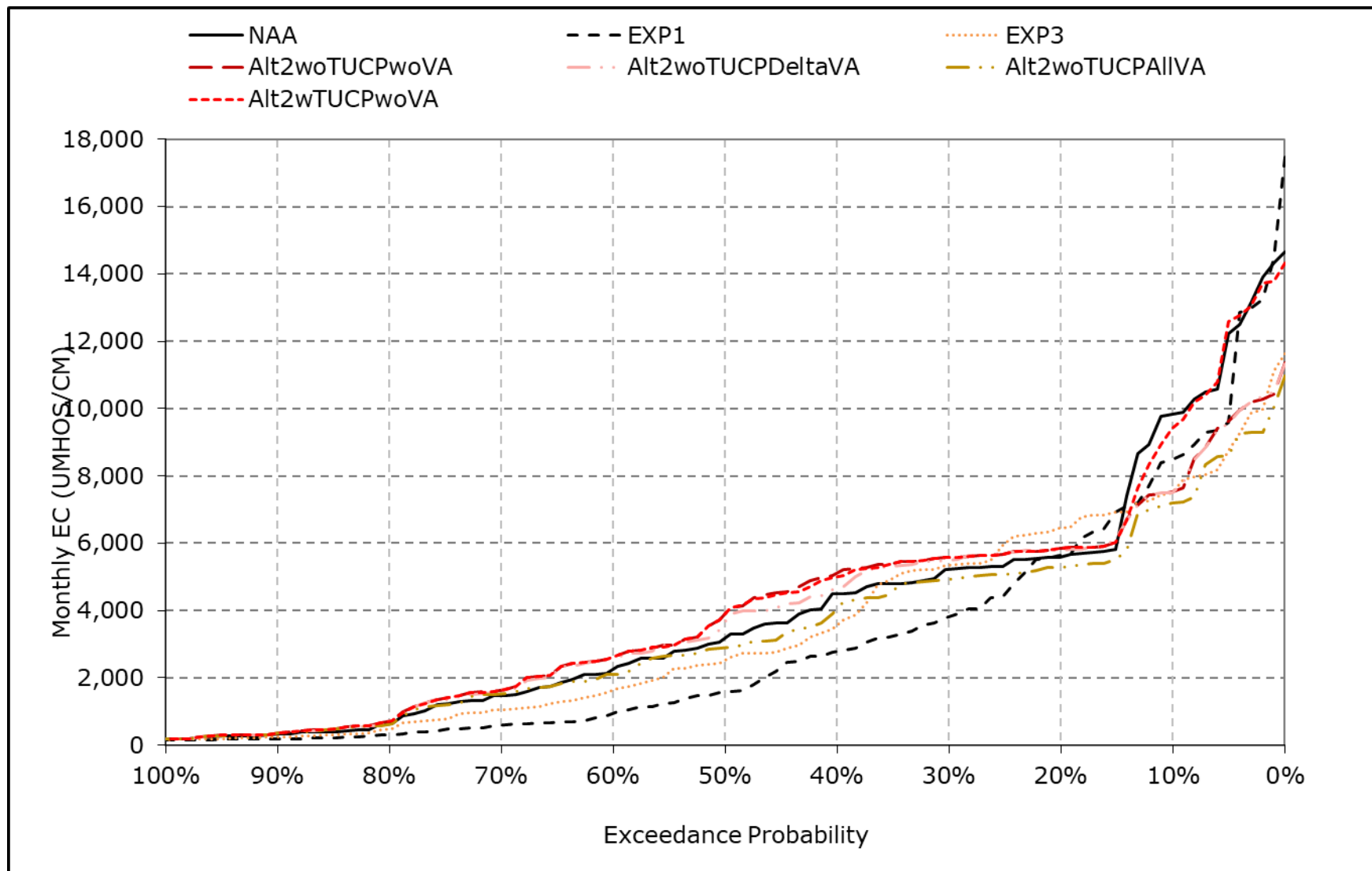
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-10. Chipps Island North Channel Salinity, April EC**



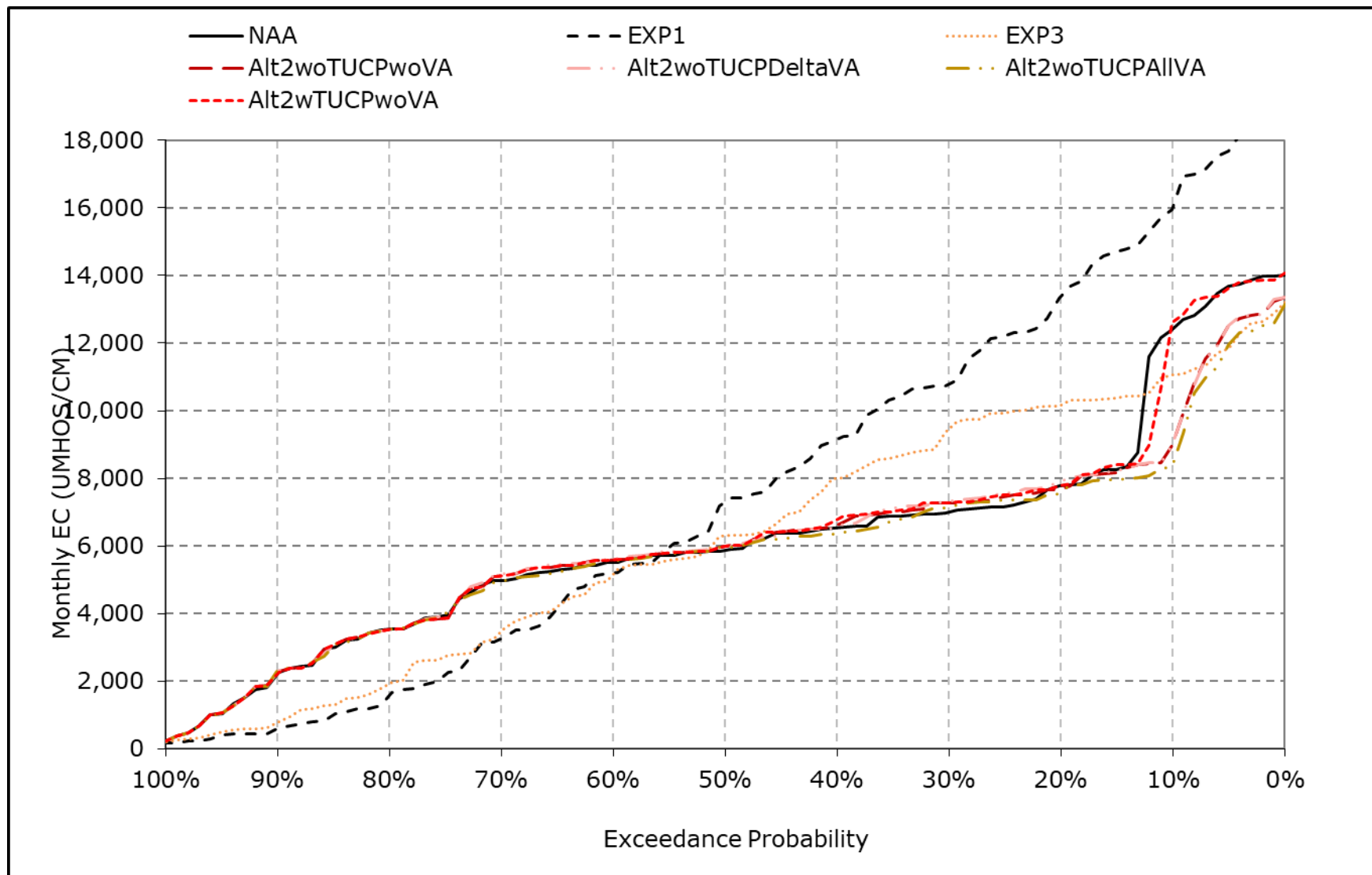
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-11. Chipps Island North Channel Salinity, May EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

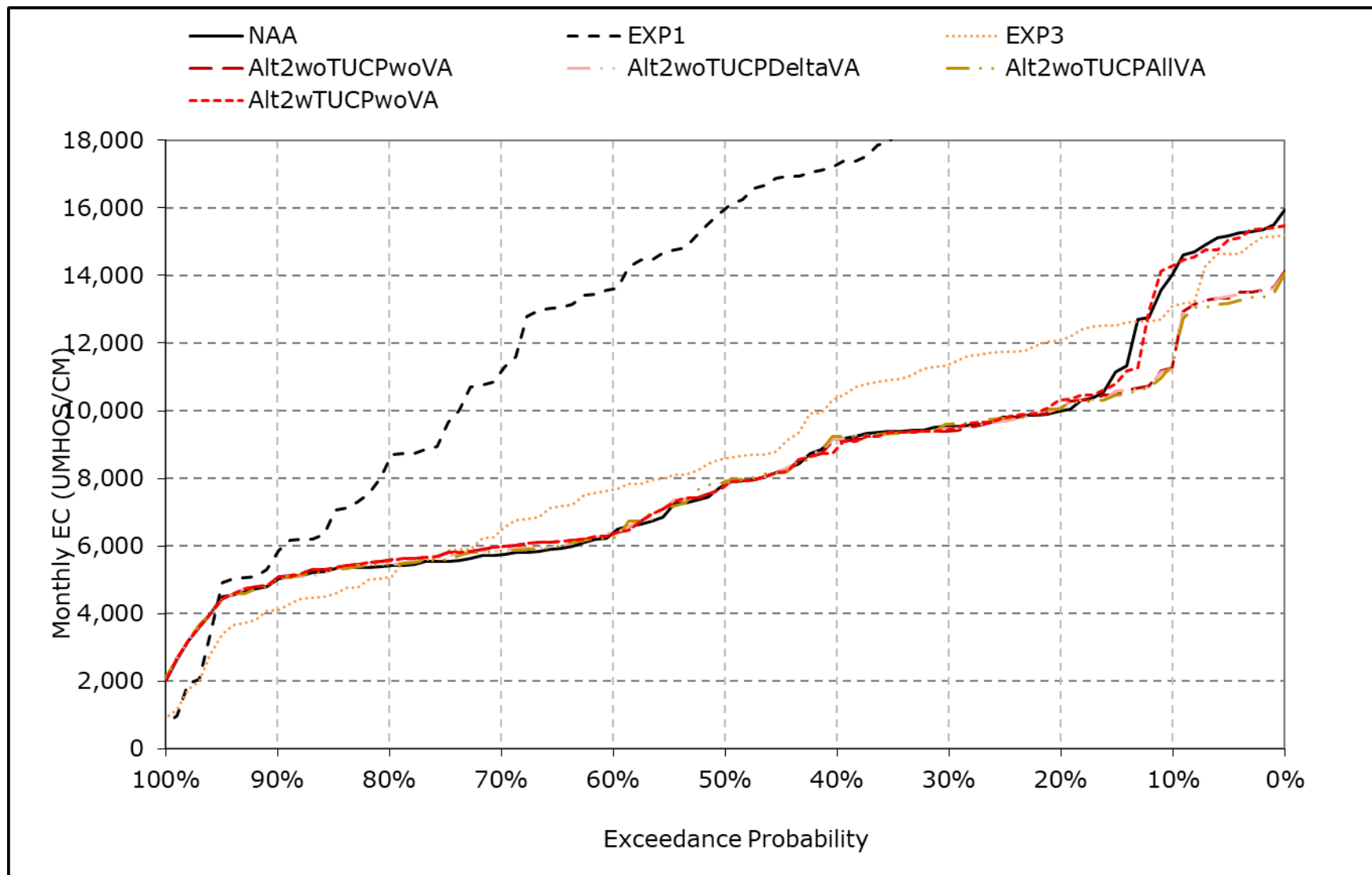
**Figure F.2.5-13-12. Chipps Island North Channel Salinity, June EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

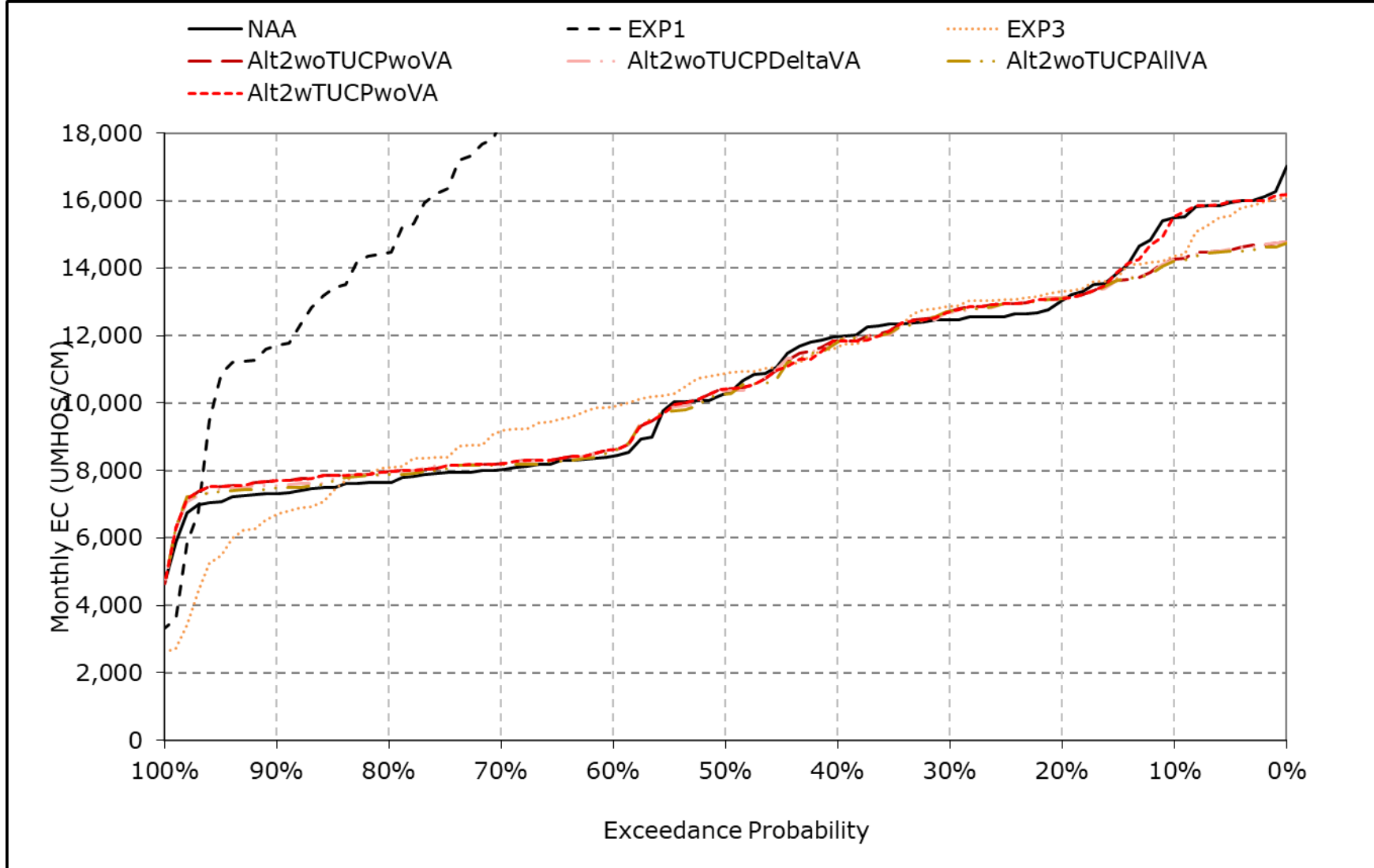


**Figure F.2.5-13-13. Chipps Island North Channel Salinity, July EC**



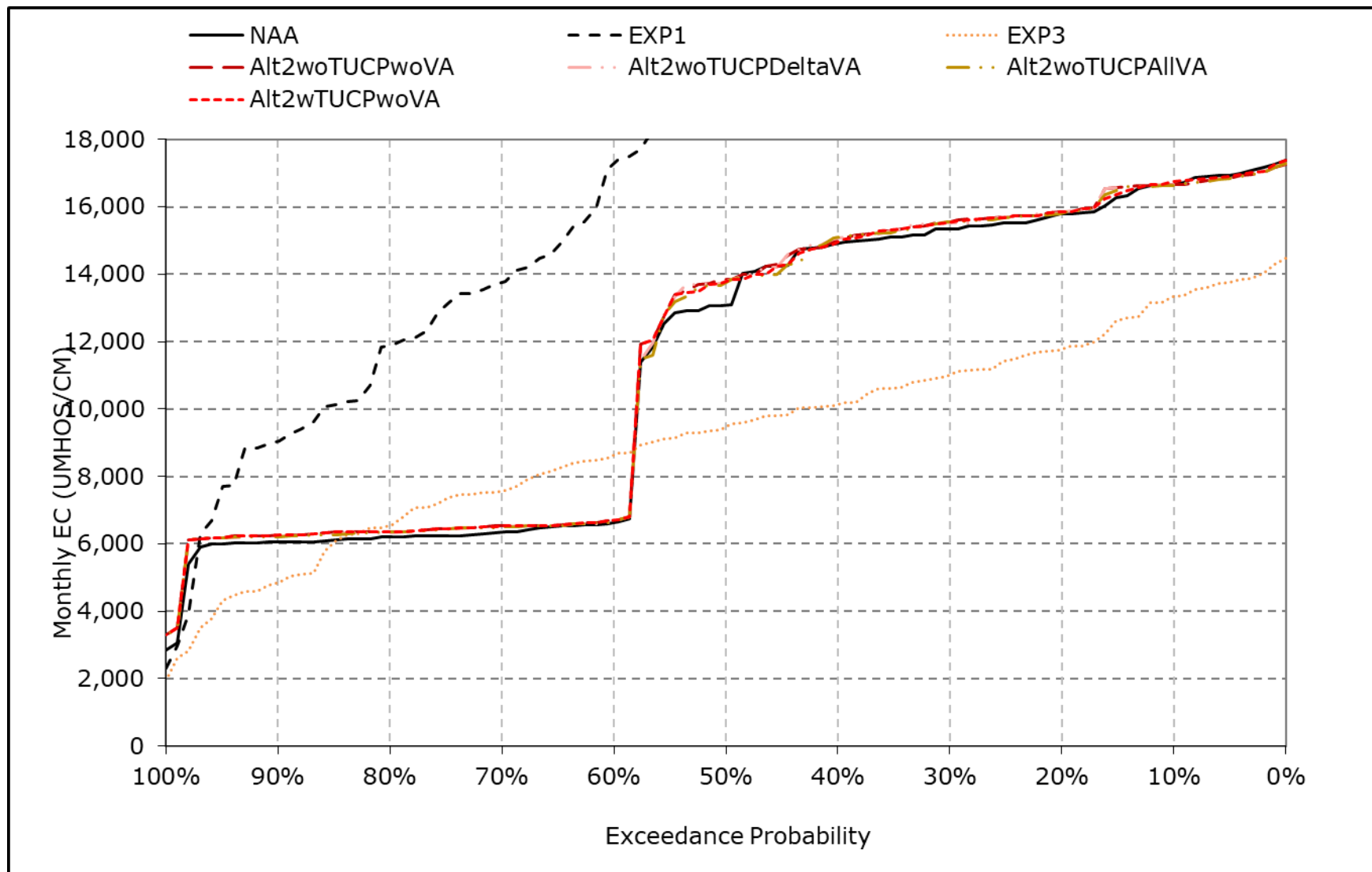
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-14. Chipps Island North Channel Salinity, August EC**



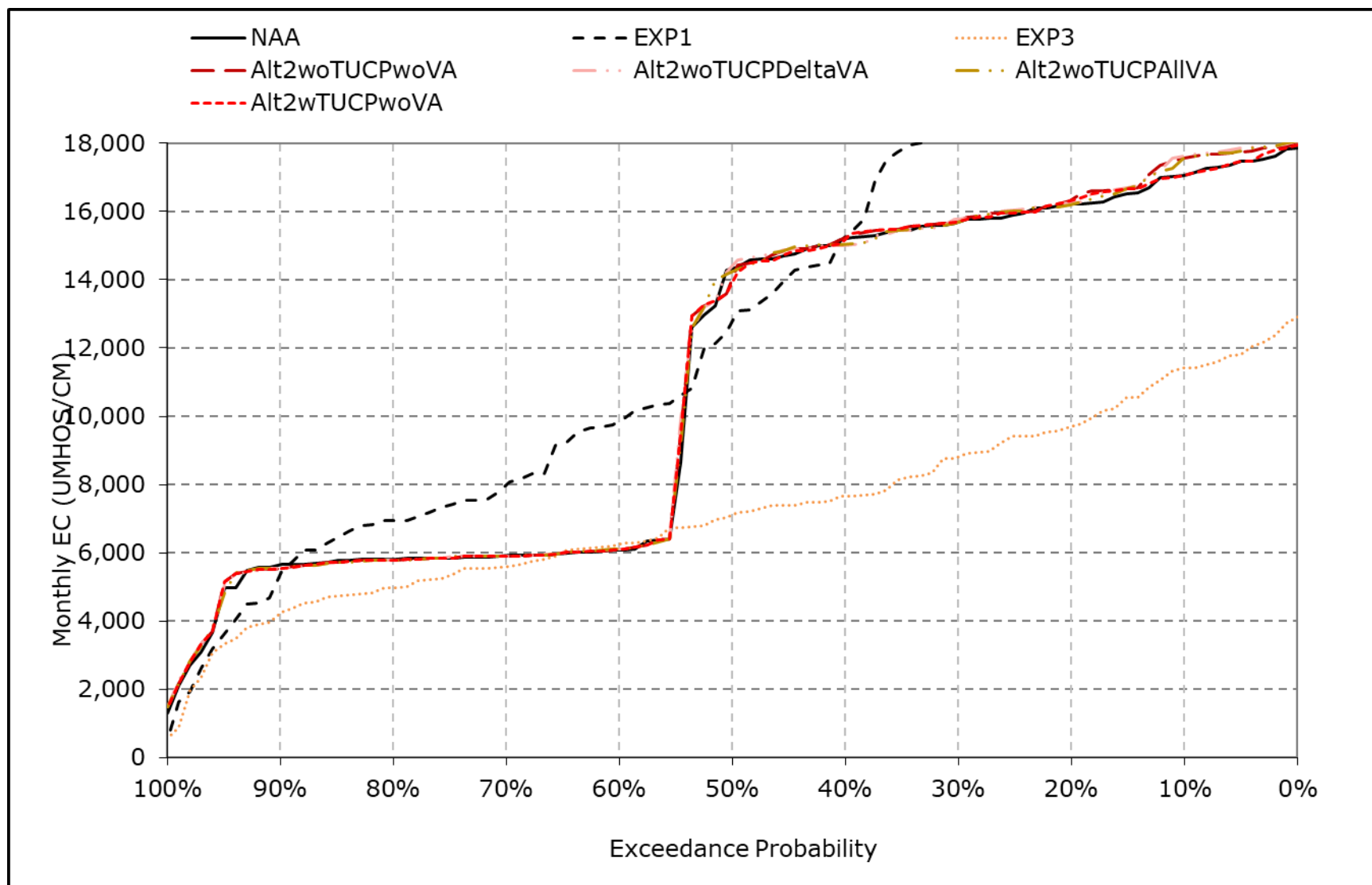
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-15. Chipps Island North Channel Salinity, September EC**



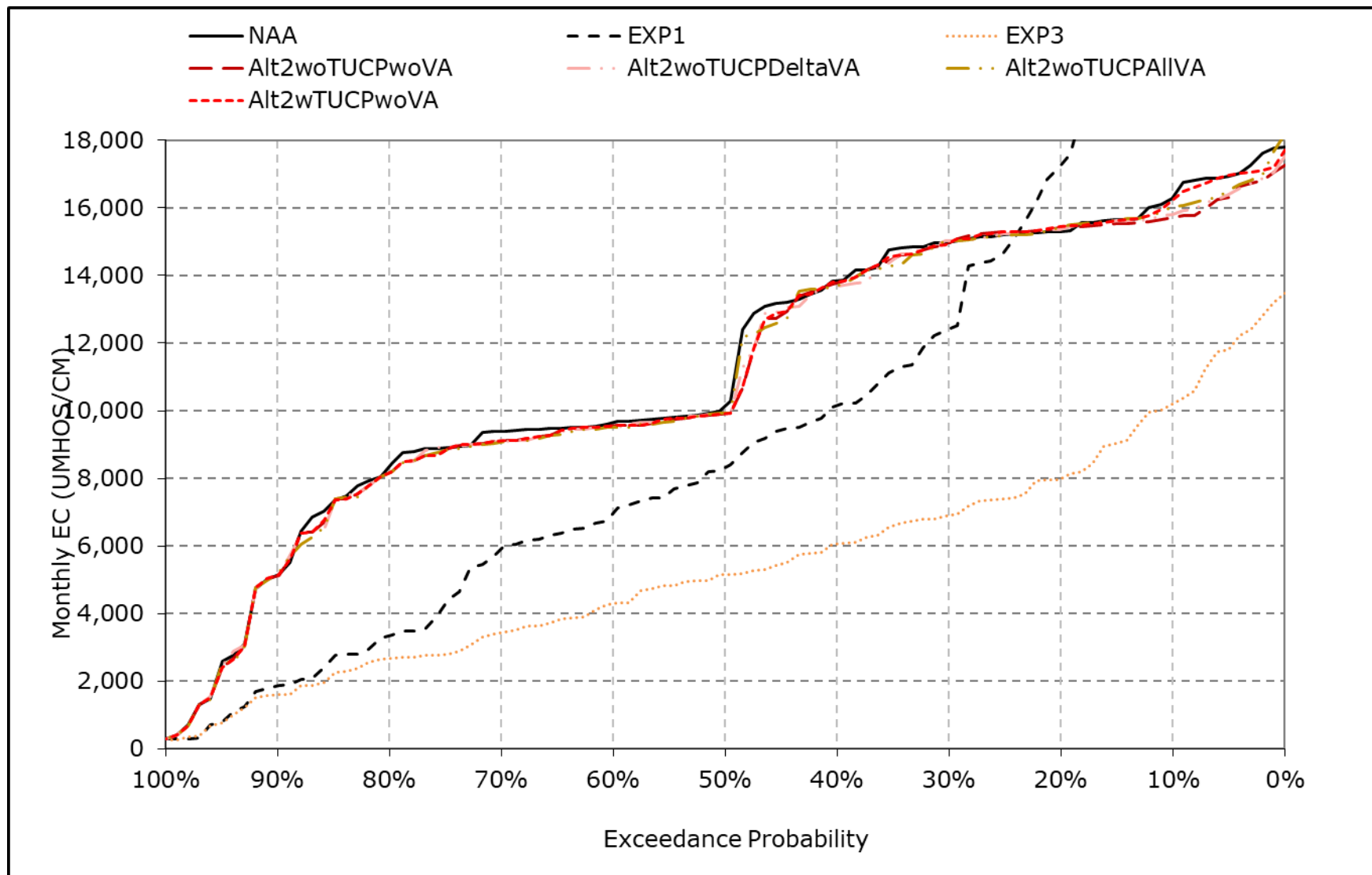
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-16. Chipps Island North Channel Salinity, October EC**



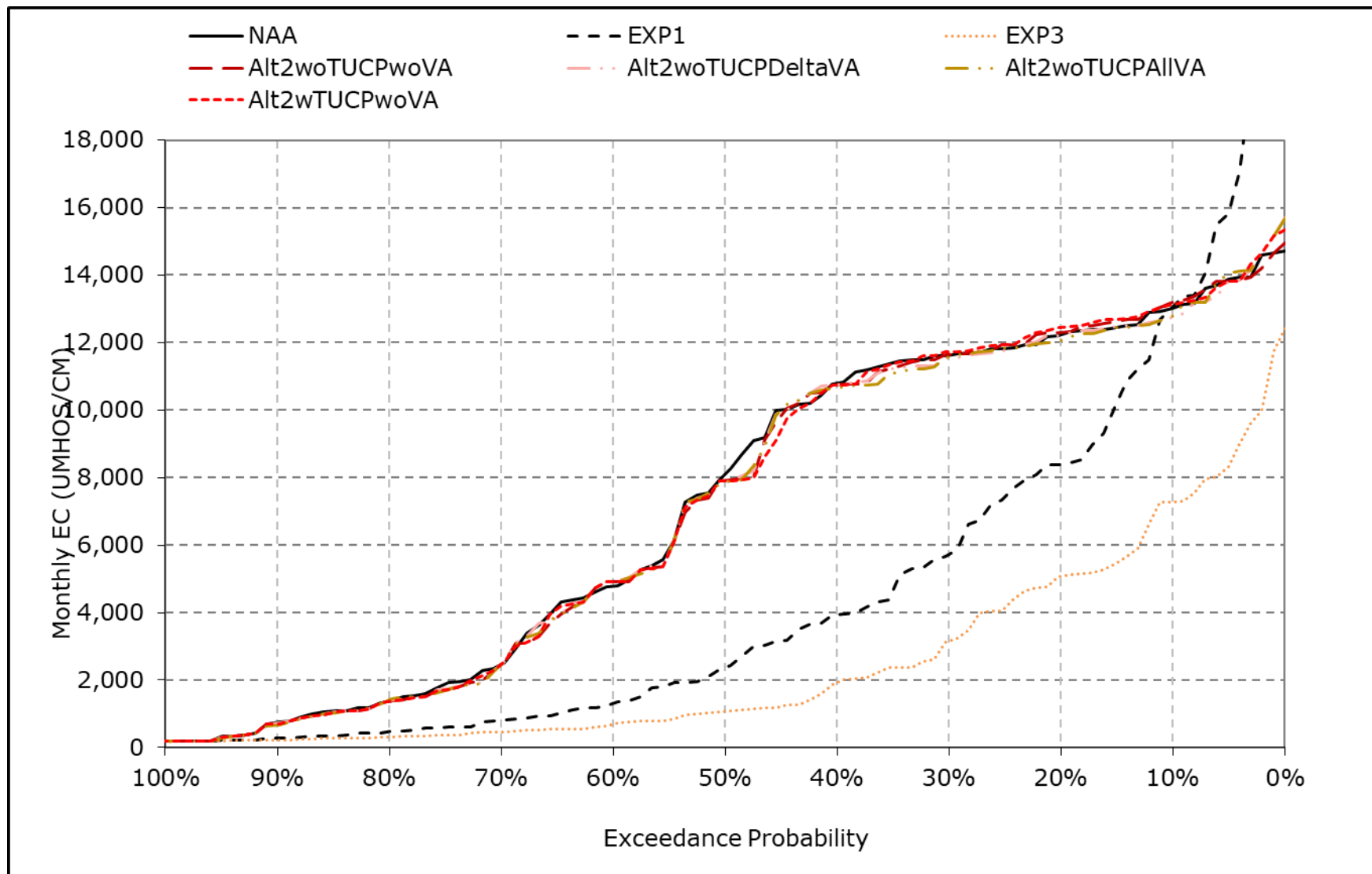
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-17. Chipps Island North Channel Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-13-18. Chipps Island North Channel Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-14-1a. Chipps Island South Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 15,784 | 15,270 | 11,984 | 9,982 | 5,239 | 4,280 | 6,068 | 8,669 | 11,235 | 12,825 | 14,075 | 15,457 |
| <b>20% Exceedance</b>                             | 15,083 | 14,153 | 11,062 | 8,320 | 3,549 | 2,651 | 3,977 | 4,523 | 6,627  | 8,724  | 11,840 | 14,632 |
| <b>30% Exceedance</b>                             | 14,498 | 13,879 | 10,385 | 4,904 | 1,632 | 1,092 | 2,224 | 4,185 | 5,770  | 8,197  | 11,185 | 14,097 |
| <b>40% Exceedance</b>                             | 13,971 | 12,681 | 9,553  | 2,815 | 932   | 785   | 1,430 | 3,472 | 5,338  | 7,735  | 10,594 | 13,679 |
| <b>50% Exceedance</b>                             | 13,180 | 8,951  | 7,233  | 1,835 | 523   | 609   | 1,012 | 2,351 | 4,713  | 6,578  | 9,023  | 11,765 |
| <b>60% Exceedance</b>                             | 4,924  | 8,253  | 4,005  | 985   | 320   | 276   | 591   | 1,605 | 4,369  | 5,295  | 7,187  | 5,559  |
| <b>70% Exceedance</b>                             | 4,767  | 8,052  | 2,304  | 322   | 211   | 223   | 395   | 982   | 3,942  | 4,682  | 6,750  | 5,321  |
| <b>80% Exceedance</b>                             | 4,666  | 7,033  | 1,353  | 205   | 194   | 194   | 246   | 407   | 2,665  | 4,348  | 6,462  | 5,179  |
| <b>90% Exceedance</b>                             | 4,482  | 4,159  | 802    | 189   | 186   | 187   | 193   | 229   | 1,566  | 4,039  | 6,133  | 5,076  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 9,974  | 10,189 | 6,534  | 3,601 | 1,729 | 1,374 | 2,103 | 3,258 | 5,177  | 7,023  | 9,347  | 10,246 |
| <b>Wet Water Years (28%)</b>                      | 4,463  | 6,289  | 5,300  | 407   | 209   | 268   | 364   | 838   | 2,480  | 4,018  | 6,285  | 5,053  |
| <b>Above Normal Years (14%)</b>                   | 4,479  | 7,244  | 5,874  | 1,799 | 389   | 296   | 524   | 1,524 | 3,584  | 4,636  | 6,662  | 5,123  |
| <b>Below Normal Years (18%)</b>                   | 12,738 | 11,982 | 5,517  | 3,071 | 1,480 | 899   | 1,476 | 2,445 | 4,943  | 6,783  | 9,414  | 12,383 |
| <b>Dry Water Years (24%)</b>                      | 13,952 | 11,984 | 7,017  | 6,029 | 2,468 | 1,697 | 2,293 | 3,582 | 5,600  | 8,268  | 11,227 | 14,120 |
| <b>Critical Water Years (16%)</b>                 | 16,077 | 15,389 | 9,943  | 7,719 | 4,732 | 4,302 | 6,946 | 9,436 | 10,917 | 12,775 | 14,158 | 15,600 |

**Table F.2.5-14-1b. Chipps Island South Channel Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 16,408 | 14,613 | 12,063 | 9,908 | 4,895 | 3,243 | 4,842 | 6,219 | 7,789 | 10,162 | 12,832 | 15,442 |
| <b>20% Exceedance</b>                             | 15,209 | 14,313 | 11,176 | 7,249 | 3,066 | 2,051 | 3,355 | 4,675 | 6,565 | 8,725  | 11,808 | 14,599 |
| <b>30% Exceedance</b>                             | 14,513 | 13,842 | 10,379 | 4,288 | 1,573 | 1,028 | 2,197 | 4,502 | 6,055 | 8,049  | 11,362 | 14,335 |
| <b>40% Exceedance</b>                             | 14,066 | 12,665 | 9,422  | 3,009 | 874   | 770   | 1,565 | 4,059 | 5,461 | 7,705  | 10,383 | 13,780 |
| <b>50% Exceedance</b>                             | 12,798 | 8,562  | 7,024  | 1,904 | 533   | 622   | 1,071 | 2,979 | 4,799 | 6,493  | 9,096  | 12,545 |
| <b>60% Exceedance</b>                             | 4,955  | 8,210  | 4,177  | 882   | 287   | 276   | 677   | 1,900 | 4,477 | 5,227  | 7,383  | 5,669  |
| <b>70% Exceedance</b>                             | 4,778  | 7,783  | 2,132  | 322   | 211   | 223   | 414   | 1,097 | 4,045 | 4,863  | 6,912  | 5,506  |
| <b>80% Exceedance</b>                             | 4,679  | 6,877  | 1,294  | 203   | 194   | 196   | 249   | 453   | 2,654 | 4,487  | 6,677  | 5,366  |
| <b>90% Exceedance</b>                             | 4,519  | 4,126  | 799    | 189   | 188   | 187   | 193   | 252   | 1,594 | 3,999  | 6,421  | 5,235  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 10,087 | 10,000 | 6,485  | 3,494 | 1,635 | 1,280 | 1,862 | 3,148 | 4,999 | 6,757  | 9,230  | 10,416 |
| <b>Wet Water Years (28%)</b>                      | 4,481  | 6,266  | 5,311  | 373   | 209   | 271   | 404   | 980   | 2,511 | 4,105  | 6,514  | 5,171  |
| <b>Above Normal Years (14%)</b>                   | 4,526  | 7,028  | 5,937  | 1,785 | 390   | 297   | 585   | 1,811 | 3,604 | 4,718  | 6,809  | 5,438  |
| <b>Below Normal Years (18%)</b>                   | 12,884 | 11,608 | 5,374  | 3,161 | 1,435 | 881   | 1,566 | 2,895 | 5,096 | 6,669  | 9,277  | 12,683 |
| <b>Dry Water Years (24%)</b>                      | 14,039 | 12,010 | 7,016  | 5,669 | 2,227 | 1,670 | 2,383 | 3,822 | 5,757 | 8,319  | 11,324 | 14,308 |
| <b>Critical Water Years (16%)</b>                 | 16,435 | 14,796 | 9,712  | 7,564 | 4,558 | 3,767 | 5,083 | 7,384 | 9,328 | 10,936 | 12,905 | 15,564 |

**Table F.2.5-14-1c. Chipps Island South Channel Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct  | Nov  | Dec  | Jan    | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|-----|
| <b>10% Exceedance</b>                             | 624  | -658 | 79   | -74    | -343 | -1,036 | -1,226 | -2,450 | -3,446 | -2,662 | -1,243 | -15 |
| <b>20% Exceedance</b>                             | 126  | 160  | 113  | -1,070 | -483 | -600   | -622   | 152    | -62    | 1      | -32    | -33 |
| <b>30% Exceedance</b>                             | 15   | -36  | -6   | -616   | -60  | -64    | -27    | 316    | 285    | -149   | 177    | 238 |
| <b>40% Exceedance</b>                             | 95   | -16  | -131 | 193    | -58  | -15    | 135    | 586    | 123    | -30    | -211   | 100 |
| <b>50% Exceedance</b>                             | -382 | -389 | -209 | 69     | 10   | 13     | 59     | 628    | 86     | -85    | 73     | 780 |
| <b>60% Exceedance</b>                             | 31   | -43  | 173  | -102   | -33  | 1      | 87     | 294    | 108    | -68    | 197    | 110 |
| <b>70% Exceedance</b>                             | 11   | -269 | -171 | 0      | 0    | -1     | 19     | 115    | 103    | 181    | 161    | 184 |
| <b>80% Exceedance</b>                             | 13   | -156 | -59  | -2     | -1   | 2      | 2      | 46     | -12    | 140    | 214    | 188 |
| <b>90% Exceedance</b>                             | 36   | -33  | -3   | 0      | 2    | 0      | 0      | 23     | 28     | -40    | 288    | 159 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 113  | -189 | -48  | -107   | -94  | -94    | -241   | -110   | -178   | -266   | -117   | 170 |
| <b>Wet Water Years (28%)</b>                      | 18   | -23  | 11   | -34    | -1   | 3      | 40     | 142    | 31     | 87     | 228    | 118 |
| <b>Above Normal Years (14%)</b>                   | 47   | -215 | 64   | -13    | 0    | 0      | 60     | 288    | 20     | 83     | 148    | 315 |
| <b>Below Normal Years (18%)</b>                   | 146  | -373 | -143 | 89     | -45  | -18    | 90     | 450    | 153    | -114   | -137   | 300 |
| <b>Dry Water Years (24%)</b>                      | 87   | 26   | -1   | -361   | -241 | -27    | 90     | 240    | 158    | 51     | 97     | 188 |
| <b>Critical Water Years (16%)</b>                 | 358  | -593 | -231 | -156   | -174 | -534   | -1,863 | -2,051 | -1,589 | -1,839 | -1,253 | -36 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-14-2a. Chipps Island South Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,784 | 15,270 | 11,984 | 9,982 | 5,239 | 4,280 | 6,068 | 8,669 | 11,235 | 12,825 | 14,075 | 15,457 |
| 20% Exceedance                              | 15,083 | 14,153 | 11,062 | 8,320 | 3,549 | 2,651 | 3,977 | 4,523 | 6,627  | 8,724  | 11,840 | 14,632 |
| 30% Exceedance                              | 14,498 | 13,879 | 10,385 | 4,904 | 1,632 | 1,092 | 2,224 | 4,185 | 5,770  | 8,197  | 11,185 | 14,097 |
| 40% Exceedance                              | 13,971 | 12,681 | 9,553  | 2,815 | 932   | 785   | 1,430 | 3,472 | 5,338  | 7,735  | 10,594 | 13,679 |
| 50% Exceedance                              | 13,180 | 8,951  | 7,233  | 1,835 | 523   | 609   | 1,012 | 2,351 | 4,713  | 6,578  | 9,023  | 11,765 |
| 60% Exceedance                              | 4,924  | 8,253  | 4,005  | 985   | 320   | 276   | 591   | 1,605 | 4,369  | 5,295  | 7,187  | 5,559  |
| 70% Exceedance                              | 4,767  | 8,052  | 2,304  | 322   | 211   | 223   | 395   | 982   | 3,942  | 4,682  | 6,750  | 5,321  |
| 80% Exceedance                              | 4,666  | 7,033  | 1,353  | 205   | 194   | 194   | 246   | 407   | 2,665  | 4,348  | 6,462  | 5,179  |
| 90% Exceedance                              | 4,482  | 4,159  | 802    | 189   | 186   | 187   | 193   | 229   | 1,566  | 4,039  | 6,133  | 5,076  |
| Full Simulation Period Average <sup>a</sup> | 9,974  | 10,189 | 6,534  | 3,601 | 1,729 | 1,374 | 2,103 | 3,258 | 5,177  | 7,023  | 9,347  | 10,246 |
| Wet Water Years (28%)                       | 4,463  | 6,289  | 5,300  | 407   | 209   | 268   | 364   | 838   | 2,480  | 4,018  | 6,285  | 5,053  |
| Above Normal Years (14%)                    | 4,479  | 7,244  | 5,874  | 1,799 | 389   | 296   | 524   | 1,524 | 3,584  | 4,636  | 6,662  | 5,123  |
| Below Normal Years (18%)                    | 12,738 | 11,982 | 5,517  | 3,071 | 1,480 | 899   | 1,476 | 2,445 | 4,943  | 6,783  | 9,414  | 12,383 |
| Dry Water Years (24%)                       | 13,952 | 11,984 | 7,017  | 6,029 | 2,468 | 1,697 | 2,293 | 3,582 | 5,600  | 8,268  | 11,227 | 14,120 |
| Critical Water Years (16%)                  | 16,077 | 15,389 | 9,943  | 7,719 | 4,732 | 4,302 | 6,946 | 9,436 | 10,917 | 12,775 | 14,158 | 15,600 |

**Table F.2.5-14-2b. Chipps Island South Channel Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,408 | 14,748 | 11,633 | 9,765 | 5,181 | 3,146 | 4,509 | 6,262 | 7,778 | 10,105 | 12,852 | 15,442 |
| 20% Exceedance                              | 15,183 | 14,251 | 11,016 | 7,290 | 3,042 | 2,159 | 2,828 | 4,701 | 6,742 | 8,726  | 11,888 | 14,657 |
| 30% Exceedance                              | 14,584 | 13,864 | 10,359 | 4,378 | 1,537 | 970   | 2,088 | 4,415 | 6,085 | 8,147  | 11,339 | 14,312 |
| 40% Exceedance                              | 13,846 | 12,517 | 9,518  | 3,008 | 872   | 717   | 1,336 | 3,599 | 5,403 | 7,740  | 10,403 | 13,778 |
| 50% Exceedance                              | 13,183 | 8,560  | 6,977  | 2,095 | 534   | 523   | 933   | 2,770 | 4,828 | 6,561  | 9,025  | 12,533 |
| 60% Exceedance                              | 4,972  | 8,196  | 4,190  | 903   | 284   | 268   | 596   | 1,867 | 4,516 | 5,265  | 7,351  | 5,633  |
| 70% Exceedance                              | 4,781  | 7,740  | 2,131  | 322   | 212   | 223   | 393   | 1,112 | 4,053 | 4,808  | 6,904  | 5,489  |
| 80% Exceedance                              | 4,673  | 6,877  | 1,303  | 204   | 194   | 196   | 252   | 449   | 2,633 | 4,430  | 6,610  | 5,354  |
| 90% Exceedance                              | 4,514  | 4,161  | 793    | 189   | 188   | 187   | 193   | 254   | 1,608 | 3,998  | 6,307  | 5,213  |
| Full Simulation Period Average <sup>a</sup> | 10,091 | 10,013 | 6,471  | 3,528 | 1,698 | 1,208 | 1,744 | 3,085 | 5,021 | 6,745  | 9,199  | 10,406 |
| Wet Water Years (28%)                       | 4,486  | 6,267  | 5,307  | 390   | 210   | 269   | 389   | 975   | 2,532 | 4,073  | 6,487  | 5,161  |
| Above Normal Years (14%)                    | 4,529  | 7,026  | 5,834  | 1,788 | 391   | 293   | 460   | 1,627 | 3,643 | 4,659  | 6,725  | 5,414  |
| Below Normal Years (18%)                    | 12,848 | 11,577 | 5,398  | 3,173 | 1,457 | 746   | 1,360 | 2,855 | 5,146 | 6,697  | 9,233  | 12,653 |
| Dry Water Years (24%)                       | 14,044 | 12,022 | 6,937  | 5,744 | 2,285 | 1,473 | 2,139 | 3,700 | 5,764 | 8,333  | 11,311 | 14,309 |
| Critical Water Years (16%)                  | 16,482 | 14,900 | 9,821  | 7,617 | 4,834 | 3,776 | 5,078 | 7,392 | 9,330 | 10,916 | 12,906 | 15,573 |

**Table F.2.5-14-2c. Chipps Island South Channel Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 624  | -522 | -352 | -217   | -58  | -1,133 | -1,559 | -2,408 | -3,457 | -2,720 | -1,222 | -15 |
| 20% Exceedance                              | 99   | 98   | -46  | -1,030 | -507 | -491   | -1,150 | 178    | 115    | 2      | 47     | 25  |
| 30% Exceedance                              | 86   | -15  | -26  | -526   | -95  | -123   | -136   | 229    | 315    | -50    | 154    | 214 |
| 40% Exceedance                              | -125 | -164 | -35  | 192    | -60  | -67    | -94    | 127    | 65     | 5      | -191   | 99  |
| 50% Exceedance                              | 2    | -391 | -256 | 260    | 11   | -86    | -79    | 419    | 114    | -17    | 1      | 768 |
| 60% Exceedance                              | 49   | -57  | 186  | -82    | -37  | -8     | 5      | 262    | 147    | -30    | 164    | 74  |
| 70% Exceedance                              | 13   | -312 | -173 | 0      | 1    | 0      | -3     | 130    | 111    | 127    | 154    | 167 |
| 80% Exceedance                              | 7    | -156 | -49  | -1     | 0    | 2      | 5      | 42     | -32    | 82     | 148    | 175 |
| 90% Exceedance                              | 31   | 2    | -9   | 0      | 2    | 0      | 0      | 24     | 42     | -42    | 174    | 138 |
| Full Simulation Period Average <sup>a</sup> | 116  | -176 | -63  | -73    | -31  | -166   | -359   | -173   | -155   | -279   | -147   | 160 |
| Wet Water Years (28%)                       | 22   | -22  | 7    | -17    | 0    | 1      | 25     | 136    | 52     | 54     | 202    | 108 |
| Above Normal Years (14%)                    | 50   | -217 | -40  | -10    | 2    | -3     | -64    | 104    | 59     | 24     | 64     | 292 |
| Below Normal Years (18%)                    | 110  | -404 | -119 | 102    | -23  | -153   | -116   | 409    | 203    | -86    | -181   | 270 |
| Dry Water Years (24%)                       | 92   | 38   | -80  | -286   | -183 | -224   | -154   | 117    | 164    | 65     | 84     | 189 |
| Critical Water Years (16%)                  | 405  | -489 | -122 | -102   | 102  | -526   | -1,868 | -2,044 | -1,586 | -1,859 | -1,253 | -28 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-14-3a. Chipps Island South Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,784 | 15,270 | 11,984 | 9,982 | 5,239 | 4,280 | 6,068 | 8,669 | 11,235 | 12,825 | 14,075 | 15,457 |
| 20% Exceedance                              | 15,083 | 14,153 | 11,062 | 8,320 | 3,549 | 2,651 | 3,977 | 4,523 | 6,627  | 8,724  | 11,840 | 14,632 |
| 30% Exceedance                              | 14,498 | 13,879 | 10,385 | 4,904 | 1,632 | 1,092 | 2,224 | 4,185 | 5,770  | 8,197  | 11,185 | 14,097 |
| 40% Exceedance                              | 13,971 | 12,681 | 9,553  | 2,815 | 932   | 785   | 1,430 | 3,472 | 5,338  | 7,735  | 10,594 | 13,679 |
| 50% Exceedance                              | 13,180 | 8,951  | 7,233  | 1,835 | 523   | 609   | 1,012 | 2,351 | 4,713  | 6,578  | 9,023  | 11,765 |
| 60% Exceedance                              | 4,924  | 8,253  | 4,005  | 985   | 320   | 276   | 591   | 1,605 | 4,369  | 5,295  | 7,187  | 5,559  |
| 70% Exceedance                              | 4,767  | 8,052  | 2,304  | 322   | 211   | 223   | 395   | 982   | 3,942  | 4,682  | 6,750  | 5,321  |
| 80% Exceedance                              | 4,666  | 7,033  | 1,353  | 205   | 194   | 194   | 246   | 407   | 2,665  | 4,348  | 6,462  | 5,179  |
| 90% Exceedance                              | 4,482  | 4,159  | 802    | 189   | 186   | 187   | 193   | 229   | 1,566  | 4,039  | 6,133  | 5,076  |
| Full Simulation Period Average <sup>a</sup> | 9,974  | 10,189 | 6,534  | 3,601 | 1,729 | 1,374 | 2,103 | 3,258 | 5,177  | 7,023  | 9,347  | 10,246 |
| Wet Water Years (28%)                       | 4,463  | 6,289  | 5,300  | 407   | 209   | 268   | 364   | 838   | 2,480  | 4,018  | 6,285  | 5,053  |
| Above Normal Years (14%)                    | 4,479  | 7,244  | 5,874  | 1,799 | 389   | 296   | 524   | 1,524 | 3,584  | 4,636  | 6,662  | 5,123  |
| Below Normal Years (18%)                    | 12,738 | 11,982 | 5,517  | 3,071 | 1,480 | 899   | 1,476 | 2,445 | 4,943  | 6,783  | 9,414  | 12,383 |
| Dry Water Years (24%)                       | 13,952 | 11,984 | 7,017  | 6,029 | 2,468 | 1,697 | 2,293 | 3,582 | 5,600  | 8,268  | 11,227 | 14,120 |
| Critical Water Years (16%)                  | 16,077 | 15,389 | 9,943  | 7,719 | 4,732 | 4,302 | 6,946 | 9,436 | 10,917 | 12,775 | 14,158 | 15,600 |

**Table F.2.5-14-3b. Chipps Island South Channel Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,379 | 14,908 | 11,701 | 9,744 | 5,144 | 3,187 | 4,284 | 5,956 | 7,208 | 10,236 | 12,740 | 15,462 |
| 20% Exceedance                              | 15,083 | 14,303 | 10,948 | 7,595 | 3,049 | 2,112 | 2,604 | 4,250 | 6,378 | 8,722  | 11,851 | 14,621 |
| 30% Exceedance                              | 14,506 | 13,797 | 10,352 | 4,384 | 1,504 | 960   | 1,739 | 3,899 | 5,936 | 8,195  | 11,366 | 14,308 |
| 40% Exceedance                              | 13,854 | 12,580 | 9,415  | 2,974 | 870   | 706   | 1,073 | 3,106 | 5,227 | 7,788  | 10,335 | 13,764 |
| 50% Exceedance                              | 13,018 | 8,563  | 6,977  | 1,988 | 536   | 525   | 766   | 2,104 | 4,758 | 6,695  | 8,952  | 12,463 |
| 60% Exceedance                              | 4,971  | 8,168  | 4,182  | 948   | 276   | 271   | 493   | 1,506 | 4,427 | 5,138  | 7,276  | 5,645  |
| 70% Exceedance                              | 4,777  | 7,732  | 2,122  | 321   | 213   | 223   | 374   | 1,027 | 3,874 | 4,784  | 6,844  | 5,490  |
| 80% Exceedance                              | 4,679  | 6,881  | 1,292  | 204   | 194   | 196   | 241   | 410   | 2,658 | 4,417  | 6,611  | 5,344  |
| 90% Exceedance                              | 4,513  | 4,209  | 765    | 189   | 188   | 187   | 193   | 251   | 1,608 | 3,971  | 6,203  | 5,213  |
| Full Simulation Period Average <sup>a</sup> | 10,067 | 10,033 | 6,458  | 3,526 | 1,723 | 1,199 | 1,557 | 2,709 | 4,846 | 6,729  | 9,159  | 10,372 |
| Wet Water Years (28%)                       | 4,481  | 6,270  | 5,304  | 395   | 210   | 270   | 384   | 947   | 2,527 | 4,064  | 6,464  | 5,156  |
| Above Normal Years (14%)                    | 4,539  | 7,020  | 5,819  | 1,773 | 391   | 293   | 409   | 1,321 | 3,520 | 4,628  | 6,627  | 5,412  |
| Below Normal Years (18%)                    | 12,810 | 11,708 | 5,351  | 3,118 | 1,458 | 741   | 1,033 | 2,263 | 4,950 | 6,716  | 9,170  | 12,515 |
| Dry Water Years (24%)                       | 14,002 | 11,880 | 6,877  | 5,637 | 2,305 | 1,449 | 1,814 | 3,190 | 5,542 | 8,364  | 11,317 | 14,298 |
| Critical Water Years (16%)                  | 16,435 | 15,105 | 9,909  | 7,833 | 4,960 | 3,757 | 4,820 | 6,787 | 8,906 | 10,795 | 12,844 | 15,539 |

**Table F.2.5-14-3c. Chipps Island South Channel Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|------|------|--------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 595  | -362 | -283 | -238 | -95  | -1,093 | -1,784 | -2,713 | -4,027 | -2,589 | -1,335 | 4   |
| 20% Exceedance                              | -1   | 149  | -114 | -724 | -499 | -539   | -1,373 | -273   | -249   | -2     | 11     | -11 |
| 30% Exceedance                              | 9    | -82  | -34  | -520 | -128 | -132   | -485   | -286   | 166    | -3     | 181    | 211 |
| 40% Exceedance                              | -117 | -102 | -138 | 159  | -62  | -79    | -357   | -367   | -111   | 53     | -260   | 85  |
| 50% Exceedance                              | -162 | -388 | -256 | 154  | 13   | -85    | -245   | -246   | 45     | 117    | -71    | 699 |
| 60% Exceedance                              | 47   | -85  | 178  | -37  | -45  | -5     | -98    | -99    | 58     | -157   | 89     | 87  |
| 70% Exceedance                              | 9    | -320 | -181 | -2   | 2    | 0      | -21    | 45     | -67    | 102    | 93     | 169 |
| 80% Exceedance                              | 12   | -152 | -61  | -1   | 0    | 2      | -5     | 3      | -8     | 69     | 149    | 165 |
| 90% Exceedance                              | 31   | 50   | -37  | 0    | 2    | 0      | 0      | 22     | 42     | -69    | 70     | 137 |
| Full Simulation Period Average <sup>a</sup> | 93   | -156 | -75  | -74  | -6   | -175   | -545   | -549   | -330   | -294   | -187   | 126 |
| Wet Water Years (28%)                       | 18   | -19  | 4    | -12  | 0    | 2      | 20     | 108    | 47     | 45     | 179    | 103 |
| Above Normal Years (14%)                    | 60   | -224 | -55  | -25  | 2    | -3     | -116   | -202   | -65    | -7     | -34    | 289 |
| Below Normal Years (18%)                    | 72   | -274 | -166 | 47   | -21  | -158   | -442   | -182   | 7      | -66    | -245   | 132 |
| Dry Water Years (24%)                       | 51   | -104 | -140 | -392 | -163 | -248   | -479   | -392   | -58    | 96     | 90     | 178 |
| Critical Water Years (16%)                  | 357  | -284 | -33  | 114  | 228  | -545   | -2,126 | -2,649 | -2,011 | -1,979 | -1,314 | -61 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-14-4a. Chipps Island South Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,784 | 15,270 | 11,984 | 9,982 | 5,239 | 4,280 | 6,068 | 8,669 | 11,235 | 12,825 | 14,075 | 15,457 |
| 20% Exceedance                              | 15,083 | 14,153 | 11,062 | 8,320 | 3,549 | 2,651 | 3,977 | 4,523 | 6,627  | 8,724  | 11,840 | 14,632 |
| 30% Exceedance                              | 14,498 | 13,879 | 10,385 | 4,904 | 1,632 | 1,092 | 2,224 | 4,185 | 5,770  | 8,197  | 11,185 | 14,097 |
| 40% Exceedance                              | 13,971 | 12,681 | 9,553  | 2,815 | 932   | 785   | 1,430 | 3,472 | 5,338  | 7,735  | 10,594 | 13,679 |
| 50% Exceedance                              | 13,180 | 8,951  | 7,233  | 1,835 | 523   | 609   | 1,012 | 2,351 | 4,713  | 6,578  | 9,023  | 11,765 |
| 60% Exceedance                              | 4,924  | 8,253  | 4,005  | 985   | 320   | 276   | 591   | 1,605 | 4,369  | 5,295  | 7,187  | 5,559  |
| 70% Exceedance                              | 4,767  | 8,052  | 2,304  | 322   | 211   | 223   | 395   | 982   | 3,942  | 4,682  | 6,750  | 5,321  |
| 80% Exceedance                              | 4,666  | 7,033  | 1,353  | 205   | 194   | 194   | 246   | 407   | 2,665  | 4,348  | 6,462  | 5,179  |
| 90% Exceedance                              | 4,482  | 4,159  | 802    | 189   | 186   | 187   | 193   | 229   | 1,566  | 4,039  | 6,133  | 5,076  |
| Full Simulation Period Average <sup>a</sup> | 9,974  | 10,189 | 6,534  | 3,601 | 1,729 | 1,374 | 2,103 | 3,258 | 5,177  | 7,023  | 9,347  | 10,246 |
| Wet Water Years (28%)                       | 4,463  | 6,289  | 5,300  | 407   | 209   | 268   | 364   | 838   | 2,480  | 4,018  | 6,285  | 5,053  |
| Above Normal Years (14%)                    | 4,479  | 7,244  | 5,874  | 1,799 | 389   | 296   | 524   | 1,524 | 3,584  | 4,636  | 6,662  | 5,123  |
| Below Normal Years (18%)                    | 12,738 | 11,982 | 5,517  | 3,071 | 1,480 | 899   | 1,476 | 2,445 | 4,943  | 6,783  | 9,414  | 12,383 |
| Dry Water Years (24%)                       | 13,952 | 11,984 | 7,017  | 6,029 | 2,468 | 1,697 | 2,293 | 3,582 | 5,600  | 8,268  | 11,227 | 14,120 |
| Critical Water Years (16%)                  | 16,077 | 15,389 | 9,943  | 7,719 | 4,732 | 4,302 | 6,946 | 9,436 | 10,917 | 12,775 | 14,158 | 15,600 |

**Table F.2.5-14-4b. Chipps Island South Channel Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,801 | 15,169 | 12,049 | 9,582 | 4,894 | 4,332 | 5,391 | 8,271 | 11,241 | 12,941 | 14,098 | 15,539 |
| 20% Exceedance                              | 15,183 | 14,295 | 11,241 | 7,394 | 3,102 | 2,668 | 4,035 | 4,675 | 6,565  | 9,035  | 11,807 | 14,597 |
| 30% Exceedance                              | 14,546 | 13,863 | 10,446 | 5,270 | 1,561 | 1,076 | 2,286 | 4,501 | 6,062  | 8,105  | 11,356 | 14,326 |
| 40% Exceedance                              | 13,997 | 12,693 | 9,424  | 2,937 | 888   | 770   | 1,565 | 3,939 | 5,564  | 7,549  | 10,385 | 13,739 |
| 50% Exceedance                              | 12,708 | 8,562  | 6,975  | 1,899 | 539   | 625   | 1,070 | 2,979 | 4,799  | 6,496  | 9,096  | 12,528 |
| 60% Exceedance                              | 4,955  | 8,210  | 4,175  | 868   | 287   | 275   | 677   | 1,899 | 4,477  | 5,237  | 7,385  | 5,669  |
| 70% Exceedance                              | 4,778  | 7,782  | 2,174  | 313   | 211   | 222   | 414   | 1,097 | 4,045  | 4,863  | 6,911  | 5,507  |
| 80% Exceedance                              | 4,679  | 6,877  | 1,295  | 203   | 194   | 195   | 248   | 453   | 2,654  | 4,485  | 6,680  | 5,368  |
| 90% Exceedance                              | 4,519  | 4,154  | 799    | 189   | 188   | 187   | 193   | 252   | 1,578  | 3,998  | 6,420  | 5,235  |
| Full Simulation Period Average <sup>a</sup> | 10,027 | 10,068 | 6,515  | 3,428 | 1,611 | 1,381 | 2,139 | 3,442 | 5,224  | 7,024  | 9,403  | 10,402 |
| Wet Water Years (28%)                       | 4,482  | 6,267  | 5,307  | 373   | 209   | 271   | 404   | 980   | 2,510  | 4,105  | 6,514  | 5,172  |
| Above Normal Years (14%)                    | 4,525  | 7,027  | 5,939  | 1,782 | 387   | 296   | 584   | 1,810 | 3,602  | 4,720  | 6,809  | 5,437  |
| Below Normal Years (18%)                    | 12,827 | 11,605 | 5,410  | 3,096 | 1,419 | 874   | 1,566 | 2,894 | 5,093  | 6,650  | 9,223  | 12,596 |
| Dry Water Years (24%)                       | 14,038 | 12,001 | 7,079  | 5,754 | 2,233 | 1,670 | 2,383 | 3,820 | 5,755  | 8,319  | 11,320 | 14,304 |
| Critical Water Years (16%)                  | 16,106 | 15,268 | 9,765  | 7,100 | 4,416 | 4,411 | 6,815 | 9,226 | 10,741 | 12,630 | 14,053 | 15,580 |

**Table F.2.5-14-4c. Chipps Island South Channel Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|------|------|------|------|------|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | 18   | -101 | 65   | -401 | -345 | 52  | -677 | -398 | 6    | 116  | 23   | 82  |
| 20% Exceedance                              | 100  | 142  | 179  | -926 | -446 | 18  | 57   | 152  | -63  | 312  | -33  | -35 |
| 30% Exceedance                              | 49   | -16  | 60   | 366  | -71  | -16 | 62   | 316  | 292  | -92  | 171  | 228 |
| 40% Exceedance                              | 27   | 11   | -129 | 121  | -44  | -15 | 135  | 467  | 226  | -186 | -209 | 60  |
| 50% Exceedance                              | -473 | -389 | -258 | 64   | 16   | 15  | 59   | 628  | 86   | -82  | 73   | 763 |
| 60% Exceedance                              | 32   | -43  | 170  | -117 | -33  | 0   | 87   | 294  | 108  | -57  | 198  | 110 |
| 70% Exceedance                              | 11   | -270 | -129 | -9   | 0    | -1  | 19   | 115  | 103  | 182  | 161  | 185 |
| 80% Exceedance                              | 13   | -156 | -58  | -2   | -1   | 1   | 2    | 45   | -12  | 137  | 218  | 189 |
| 90% Exceedance                              | 36   | -6   | -3   | 0    | 2    | 0   | 0    | 23   | 12   | -41  | 288  | 160 |
| Full Simulation Period Average <sup>a</sup> | 53   | -121 | -19  | -172 | -118 | 7   | 36   | 184  | 47   | 1    | 56   | 157 |
| Wet Water Years (28%)                       | 18   | -23  | 8    | -33  | -1   | 3   | 40   | 141  | 30   | 86   | 229  | 119 |
| Above Normal Years (14%)                    | 46   | -217 | 66   | -17  | -2   | -1  | 60   | 286  | 18   | 84   | 148  | 315 |
| Below Normal Years (18%)                    | 89   | -376 | -108 | 25   | -60  | -25 | 90   | 449  | 150  | -133 | -191 | 213 |
| Dry Water Years (24%)                       | 86   | 17   | 62   | -275 | -235 | -27 | 90   | 237  | 155  | 51   | 93   | 184 |
| Critical Water Years (16%)                  | 29   | -121 | -178 | -619 | -316 | 109 | -131 | -209 | -175 | -145 | -105 | -20 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-14-5a. Chipps Island South Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 15,784 | 15,270 | 11,984 | 9,982 | 5,239 | 4,280 | 6,068 | 8,669 | 11,235 | 12,825 | 14,075 | 15,457 |
| <b>20% Exceedance</b>                             | 15,083 | 14,153 | 11,062 | 8,320 | 3,549 | 2,651 | 3,977 | 4,523 | 6,627  | 8,724  | 11,840 | 14,632 |
| <b>30% Exceedance</b>                             | 14,498 | 13,879 | 10,385 | 4,904 | 1,632 | 1,092 | 2,224 | 4,185 | 5,770  | 8,197  | 11,185 | 14,097 |
| <b>40% Exceedance</b>                             | 13,971 | 12,681 | 9,553  | 2,815 | 932   | 785   | 1,430 | 3,472 | 5,338  | 7,735  | 10,594 | 13,679 |
| <b>50% Exceedance</b>                             | 13,180 | 8,951  | 7,233  | 1,835 | 523   | 609   | 1,012 | 2,351 | 4,713  | 6,578  | 9,023  | 11,765 |
| <b>60% Exceedance</b>                             | 4,924  | 8,253  | 4,005  | 985   | 320   | 276   | 591   | 1,605 | 4,369  | 5,295  | 7,187  | 5,559  |
| <b>70% Exceedance</b>                             | 4,767  | 8,052  | 2,304  | 322   | 211   | 223   | 395   | 982   | 3,942  | 4,682  | 6,750  | 5,321  |
| <b>80% Exceedance</b>                             | 4,666  | 7,033  | 1,353  | 205   | 194   | 194   | 246   | 407   | 2,665  | 4,348  | 6,462  | 5,179  |
| <b>90% Exceedance</b>                             | 4,482  | 4,159  | 802    | 189   | 186   | 187   | 193   | 229   | 1,566  | 4,039  | 6,133  | 5,076  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 9,974  | 10,189 | 6,534  | 3,601 | 1,729 | 1,374 | 2,103 | 3,258 | 5,177  | 7,023  | 9,347  | 10,246 |
| <b>Wet Water Years (28%)</b>                      | 4,463  | 6,289  | 5,300  | 407   | 209   | 268   | 364   | 838   | 2,480  | 4,018  | 6,285  | 5,053  |
| <b>Above Normal Years (14%)</b>                   | 4,479  | 7,244  | 5,874  | 1,799 | 389   | 296   | 524   | 1,524 | 3,584  | 4,636  | 6,662  | 5,123  |
| <b>Below Normal Years (18%)</b>                   | 12,738 | 11,982 | 5,517  | 3,071 | 1,480 | 899   | 1,476 | 2,445 | 4,943  | 6,783  | 9,414  | 12,383 |
| <b>Dry Water Years (24%)</b>                      | 13,952 | 11,984 | 7,017  | 6,029 | 2,468 | 1,697 | 2,293 | 3,582 | 5,600  | 8,268  | 11,227 | 14,120 |
| <b>Critical Water Years (16%)</b>                 | 16,077 | 15,389 | 9,943  | 7,719 | 4,732 | 4,302 | 6,946 | 9,436 | 10,917 | 12,775 | 14,158 | 15,600 |

**Table F.2.5-14-5b. Chipps Island South Channel Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov   | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 9,958  | 8,946 | 6,190 | 2,925 | 1,719 | 2,053 | 4,478 | 6,353 | 9,706 | 11,678 | 12,964 | 11,960 |
| <b>20% Exceedance</b>                             | 8,378  | 6,797 | 4,047 | 1,999 | 1,115 | 1,113 | 2,806 | 5,303 | 8,818 | 10,773 | 11,947 | 10,513 |
| <b>30% Exceedance</b>                             | 7,519  | 5,750 | 2,370 | 1,224 | 578   | 530   | 1,992 | 4,246 | 8,066 | 9,954  | 11,423 | 9,686  |
| <b>40% Exceedance</b>                             | 6,345  | 4,934 | 1,467 | 697   | 423   | 401   | 1,304 | 2,719 | 6,648 | 9,016  | 10,231 | 8,827  |
| <b>50% Exceedance</b>                             | 5,934  | 4,187 | 787   | 424   | 318   | 323   | 731   | 1,812 | 5,051 | 7,250  | 9,413  | 8,269  |
| <b>60% Exceedance</b>                             | 5,130  | 3,369 | 531   | 283   | 258   | 256   | 427   | 1,137 | 4,061 | 6,505  | 8,541  | 7,446  |
| <b>70% Exceedance</b>                             | 4,512  | 2,666 | 381   | 233   | 223   | 231   | 297   | 695   | 2,575 | 5,302  | 7,806  | 6,448  |
| <b>80% Exceedance</b>                             | 3,934  | 2,010 | 301   | 214   | 206   | 220   | 232   | 325   | 1,329 | 4,001  | 6,861  | 5,643  |
| <b>90% Exceedance</b>                             | 3,244  | 1,278 | 223   | 200   | 195   | 193   | 199   | 191   | 479   | 3,128  | 5,490  | 3,943  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 6,112  | 4,606 | 2,106 | 1,268 | 786   | 756   | 1,601 | 2,786 | 5,214 | 7,520  | 9,330  | 8,044  |
| <b>Wet Water Years (28%)</b>                      | 4,005  | 2,481 | 718   | 234   | 209   | 234   | 315   | 554   | 1,705 | 3,859  | 6,039  | 5,041  |
| <b>Above Normal Years (14%)</b>                   | 4,980  | 3,718 | 1,002 | 423   | 254   | 255   | 493   | 1,174 | 3,361 | 5,427  | 7,639  | 6,831  |
| <b>Below Normal Years (18%)</b>                   | 5,792  | 4,311 | 1,962 | 682   | 561   | 445   | 1,172 | 2,540 | 5,590 | 7,683  | 9,352  | 7,913  |
| <b>Dry Water Years (24%)</b>                      | 7,004  | 5,084 | 2,956 | 1,805 | 909   | 809   | 1,918 | 3,790 | 7,173 | 9,686  | 11,303 | 9,666  |
| <b>Critical Water Years (16%)</b>                 | 10,134 | 9,047 | 4,611 | 3,674 | 2,332 | 2,379 | 4,826 | 6,873 | 9,612 | 12,325 | 13,585 | 12,073 |

**Table F.2.5-14-5c. Chipps Island South Channel Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | -5,826 | -6,324 | -5,794 | -7,058 | -3,520 | -2,227 | -1,590 | -2,316 | -1,528 | -1,147 | -1,111 | -3,497 |
| <b>20% Exceedance</b>                             | -6,705 | -7,356 | -7,015 | -6,320 | -2,434 | -1,538 | -1,172 | 780    | 2,190  | 2,050  | 107    | -4,119 |
| <b>30% Exceedance</b>                             | -6,978 | -8,129 | -8,015 | -3,680 | -1,054 | -562   | -232   | 60     | 2,296  | 1,757  | 238    | -4,412 |
| <b>40% Exceedance</b>                             | -7,626 | -7,747 | -8,085 | -2,119 | -508   | -384   | -126   | -754   | 1,309  | 1,281  | -364   | -4,852 |
| <b>50% Exceedance</b>                             | -7,246 | -4,764 | -6,446 | -1,411 | -205   | -286   | -281   | -539   | 338    | 672    | 390    | -3,496 |
| <b>60% Exceedance</b>                             | 206    | -4,884 | -3,474 | -702   | -62    | -20    | -163   | -468   | -308   | 1,210  | 1,354  | 1,887  |
| <b>70% Exceedance</b>                             | -256   | -5,386 | -1,923 | -89    | 12     | 8      | -99    | -287   | -1,367 | 620    | 1,056  | 1,127  |
| <b>80% Exceedance</b>                             | -732   | -5,023 | -1,051 | 9      | 11     | 26     | -14    | -83    | -1,336 | -347   | 399    | 465    |
| <b>90% Exceedance</b>                             | -1,238 | -2,881 | -579   | 10     | 9      | 6      | 6      | -38    | -1,087 | -911   | -642   | -1,133 |
| <b>Full Simulation Period Average<sup>a</sup></b> | -3,862 | -5,583 | -4,428 | -2,332 | -943   | -618   | -502   | -472   | 37     | 497    | -17    | -2,202 |
| <b>Wet Water Years (28%)</b>                      | -458   | -3,809 | -4,582 | -173   | -1     | -34    | -49    | -284   | -775   | -159   | -246   | -12    |
| <b>Above Normal Years (14%)</b>                   | 501    | -3,525 | -4,871 | -1,376 | -135   | -41    | -32    | -350   | -223   | 792    | 977    | 1,709  |
| <b>Below Normal Years (18%)</b>                   | -6,946 | -7,671 | -3,556 | -2,389 | -919   | -454   | -303   | 95     | 647    | 900    | -62    | -4,470 |
| <b>Dry Water Years (24%)</b>                      | -6,948 | -6,900 | -4,061 | -4,224 | -1,559 | -888   | -374   | 208    | 1,573  | 1,418  | 77     | -4,454 |
| <b>Critical Water Years (16%)</b>                 | -5,944 | -6,342 | -5,332 | -4,045 | -2,400 | -1,923 | -2,120 | -2,563 | -1,305 | -449   | -573   | -3,527 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-14-6a. Chipps Island South Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,274 | 20,692 | 11,896 | 3,820 | 1,342 | 1,179 | 2,318 | 7,224 | 14,752 | 20,484 | 23,327 | 23,115 |
| 20% Exceedance                              | 19,963 | 15,918 | 7,269  | 2,209 | 843   | 594   | 1,128 | 4,550 | 11,946 | 18,965 | 22,817 | 22,213 |
| 30% Exceedance                              | 17,243 | 11,117 | 5,050  | 1,651 | 411   | 336   | 784   | 2,876 | 9,390  | 18,164 | 22,006 | 21,394 |
| 40% Exceedance                              | 13,886 | 8,996  | 3,252  | 742   | 333   | 276   | 496   | 2,014 | 7,785  | 15,909 | 21,364 | 20,334 |
| 50% Exceedance                              | 11,393 | 7,290  | 2,091  | 482   | 271   | 255   | 320   | 1,052 | 6,004  | 14,595 | 20,541 | 18,876 |
| 60% Exceedance                              | 8,776  | 5,944  | 1,028  | 308   | 242   | 230   | 246   | 613   | 4,103  | 12,153 | 19,281 | 16,148 |
| 70% Exceedance                              | 6,773  | 4,881  | 668    | 239   | 222   | 219   | 223   | 393   | 2,408  | 9,711  | 17,113 | 12,772 |
| 80% Exceedance                              | 5,839  | 2,612  | 382    | 220   | 205   | 209   | 206   | 235   | 1,058  | 7,265  | 13,180 | 10,742 |
| 90% Exceedance                              | 4,232  | 1,534  | 269    | 201   | 195   | 190   | 186   | 171   | 375    | 4,687  | 10,352 | 7,932  |
| Full Simulation Period Average <sup>a</sup> | 12,257 | 9,143  | 4,182  | 1,721 | 779   | 542   | 987   | 2,591 | 6,721  | 13,340 | 18,443 | 16,642 |
| Wet Water Years (28%)                       | 6,122  | 4,443  | 2,282  | 231   | 204   | 210   | 226   | 454   | 1,782  | 6,966  | 12,659 | 9,783  |
| Above Normal Years (14%)                    | 8,785  | 6,116  | 2,345  | 485   | 237   | 224   | 285   | 749   | 3,603  | 11,058 | 17,414 | 14,457 |
| Below Normal Years (18%)                    | 12,767 | 8,380  | 3,524  | 1,087 | 499   | 318   | 504   | 2,141 | 7,076  | 14,586 | 20,171 | 17,995 |
| Dry Water Years (24%)                       | 15,328 | 10,653 | 5,539  | 1,875 | 662   | 509   | 885   | 3,013 | 9,091  | 16,816 | 21,578 | 20,693 |
| Critical Water Years (16%)                  | 21,653 | 19,447 | 8,187  | 5,894 | 2,750 | 1,701 | 3,630 | 7,813 | 14,138 | 19,872 | 22,819 | 22,957 |

**Table F.2.5-14-6b. Chipps Island South Channel Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,408 | 14,613 | 12,063 | 9,908 | 4,895 | 3,243 | 4,842 | 6,219 | 7,789 | 10,162 | 12,832 | 15,442 |
| 20% Exceedance                              | 15,209 | 14,313 | 11,176 | 7,249 | 3,066 | 2,051 | 3,355 | 4,675 | 6,565 | 8,725  | 11,808 | 14,599 |
| 30% Exceedance                              | 14,513 | 13,842 | 10,379 | 4,288 | 1,573 | 1,028 | 2,197 | 4,502 | 6,055 | 8,049  | 11,362 | 14,335 |
| 40% Exceedance                              | 14,066 | 12,665 | 9,422  | 3,009 | 874   | 770   | 1,565 | 4,059 | 5,461 | 7,705  | 10,383 | 13,780 |
| 50% Exceedance                              | 12,798 | 8,562  | 7,024  | 1,904 | 533   | 622   | 1,071 | 2,979 | 4,799 | 6,493  | 9,096  | 12,545 |
| 60% Exceedance                              | 4,955  | 8,210  | 4,177  | 882   | 287   | 276   | 677   | 1,900 | 4,477 | 5,227  | 7,383  | 5,669  |
| 70% Exceedance                              | 4,778  | 7,783  | 2,132  | 322   | 211   | 223   | 414   | 1,097 | 4,045 | 4,863  | 6,912  | 5,506  |
| 80% Exceedance                              | 4,679  | 6,877  | 1,294  | 203   | 194   | 196   | 249   | 453   | 2,654 | 4,487  | 6,677  | 5,366  |
| 90% Exceedance                              | 4,519  | 4,126  | 799    | 189   | 188   | 187   | 193   | 252   | 1,594 | 3,999  | 6,421  | 5,235  |
| Full Simulation Period Average <sup>a</sup> | 10,087 | 10,000 | 6,485  | 3,494 | 1,635 | 1,280 | 1,862 | 3,148 | 4,999 | 6,757  | 9,230  | 10,416 |
| Wet Water Years (28%)                       | 4,481  | 6,266  | 5,311  | 373   | 209   | 271   | 404   | 980   | 2,511 | 4,105  | 6,514  | 5,171  |
| Above Normal Years (14%)                    | 4,526  | 7,028  | 5,937  | 1,785 | 390   | 297   | 585   | 1,811 | 3,604 | 4,718  | 6,809  | 5,438  |
| Below Normal Years (18%)                    | 12,884 | 11,608 | 5,374  | 3,161 | 1,435 | 881   | 1,566 | 2,895 | 5,096 | 6,669  | 9,277  | 12,683 |
| Dry Water Years (24%)                       | 14,039 | 12,010 | 7,016  | 5,669 | 2,227 | 1,670 | 2,383 | 3,822 | 5,757 | 8,319  | 11,324 | 14,308 |
| Critical Water Years (16%)                  | 16,435 | 14,796 | 9,712  | 7,564 | 4,558 | 3,767 | 5,083 | 7,384 | 9,328 | 10,936 | 12,905 | 15,564 |

**Table F.2.5-14-6c. Chipps Island South Channel Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| 10% Exceedance                              | -4,866 | -6,080 | 168   | 6,089 | 3,553 | 2,065 | 2,523 | -1,004 | -6,962 | -10,322 | -10,495 | -7,672  |
| 20% Exceedance                              | -4,754 | -1,605 | 3,907 | 5,040 | 2,223 | 1,457 | 2,227 | 126    | -5,381 | -10,240 | -11,010 | -7,615  |
| 30% Exceedance                              | -2,730 | 2,726  | 5,329 | 2,637 | 1,162 | 692   | 1,413 | 1,625  | -3,335 | -10,115 | -10,644 | -7,059  |
| 40% Exceedance                              | 180    | 3,669  | 6,170 | 2,266 | 541   | 493   | 1,069 | 2,044  | -2,324 | -8,204  | -10,981 | -6,554  |
| 50% Exceedance                              | 1,405  | 1,272  | 4,933 | 1,422 | 261   | 367   | 750   | 1,927  | -1,205 | -8,102  | -11,445 | -6,331  |
| 60% Exceedance                              | -3,821 | 2,266  | 3,149 | 575   | 45    | 46    | 432   | 1,286  | 374    | -6,926  | -11,897 | -10,479 |
| 70% Exceedance                              | -1,994 | 2,901  | 1,464 | 83    | -11   | 4     | 191   | 705    | 1,637  | -4,849  | -10,201 | -7,266  |
| 80% Exceedance                              | -1,160 | 4,265  | 912   | -17   | -11   | -13   | 43    | 218    | 1,595  | -2,777  | -6,503  | -5,375  |
| 90% Exceedance                              | 286    | 2,592  | 530   | -12   | -7    | -3    | 7     | 81     | 1,218  | -687    | -3,932  | -2,698  |
| Full Simulation Period Average <sup>a</sup> | -2,169 | 857    | 2,303 | 1,773 | 856   | 738   | 875   | 557    | -1,722 | -6,583  | -9,213  | -6,225  |
| Wet Water Years (28%)                       | -1,640 | 1,823  | 3,028 | 142   | 4     | 61    | 179   | 526    | 728    | -2,861  | -6,145  | -4,612  |
| Above Normal Years (14%)                    | -4,260 | 913    | 3,593 | 1,300 | 153   | 73    | 300   | 1,062  | 1      | -6,339  | -10,605 | -9,020  |
| Below Normal Years (18%)                    | 116    | 3,229  | 1,850 | 2,074 | 936   | 563   | 1,061 | 754    | -1,981 | -7,917  | -10,894 | -5,312  |
| Dry Water Years (24%)                       | -1,289 | 1,358  | 1,477 | 3,794 | 1,566 | 1,162 | 1,498 | 809    | -3,334 | -8,497  | -10,254 | -6,385  |
| Critical Water Years (16%)                  | -5,218 | -4,651 | 1,525 | 1,670 | 1,808 | 2,067 | 1,452 | -429   | -4,810 | -8,937  | -9,914  | -7,393  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-14-7a. Chipps Island South Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,274 | 20,692 | 11,896 | 3,820 | 1,342 | 1,179 | 2,318 | 7,224 | 14,752 | 20,484 | 23,327 | 23,115 |
| 20% Exceedance                              | 19,963 | 15,918 | 7,269  | 2,209 | 843   | 594   | 1,128 | 4,550 | 11,946 | 18,965 | 22,817 | 22,213 |
| 30% Exceedance                              | 17,243 | 11,117 | 5,050  | 1,651 | 411   | 336   | 784   | 2,876 | 9,390  | 18,164 | 22,006 | 21,394 |
| 40% Exceedance                              | 13,886 | 8,996  | 3,252  | 742   | 333   | 276   | 496   | 2,014 | 7,785  | 15,909 | 21,364 | 20,334 |
| 50% Exceedance                              | 11,393 | 7,290  | 2,091  | 482   | 271   | 255   | 320   | 1,052 | 6,004  | 14,595 | 20,541 | 18,876 |
| 60% Exceedance                              | 8,776  | 5,944  | 1,028  | 308   | 242   | 230   | 246   | 613   | 4,103  | 12,153 | 19,281 | 16,148 |
| 70% Exceedance                              | 6,773  | 4,881  | 668    | 239   | 222   | 219   | 223   | 393   | 2,408  | 9,711  | 17,113 | 12,772 |
| 80% Exceedance                              | 5,839  | 2,612  | 382    | 220   | 205   | 209   | 206   | 235   | 1,058  | 7,265  | 13,180 | 10,742 |
| 90% Exceedance                              | 4,232  | 1,534  | 269    | 201   | 195   | 190   | 186   | 171   | 375    | 4,687  | 10,352 | 7,932  |
| Full Simulation Period Average <sup>a</sup> | 12,257 | 9,143  | 4,182  | 1,721 | 779   | 542   | 987   | 2,591 | 6,721  | 13,340 | 18,443 | 16,642 |
| Wet Water Years (28%)                       | 6,122  | 4,443  | 2,282  | 231   | 204   | 210   | 226   | 454   | 1,782  | 6,966  | 12,659 | 9,783  |
| Above Normal Years (14%)                    | 8,785  | 6,116  | 2,345  | 485   | 237   | 224   | 285   | 749   | 3,603  | 11,058 | 17,414 | 14,457 |
| Below Normal Years (18%)                    | 12,767 | 8,380  | 3,524  | 1,087 | 499   | 318   | 504   | 2,141 | 7,076  | 14,586 | 20,171 | 17,995 |
| Dry Water Years (24%)                       | 15,328 | 10,653 | 5,539  | 1,875 | 662   | 509   | 885   | 3,013 | 9,091  | 16,816 | 21,578 | 20,693 |
| Critical Water Years (16%)                  | 21,653 | 19,447 | 8,187  | 5,894 | 2,750 | 1,701 | 3,630 | 7,813 | 14,138 | 19,872 | 22,819 | 22,957 |

**Table F.2.5-14-7b. Chipps Island South Channel Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,408 | 14,748 | 11,633 | 9,765 | 5,181 | 3,146 | 4,509 | 6,262 | 7,778 | 10,105 | 12,852 | 15,442 |
| 20% Exceedance                              | 15,183 | 14,251 | 11,016 | 7,290 | 3,042 | 2,159 | 2,828 | 4,701 | 6,742 | 8,726  | 11,888 | 14,657 |
| 30% Exceedance                              | 14,584 | 13,864 | 10,359 | 4,378 | 1,537 | 970   | 2,088 | 4,415 | 6,085 | 8,147  | 11,339 | 14,312 |
| 40% Exceedance                              | 13,846 | 12,517 | 9,518  | 3,008 | 872   | 717   | 1,336 | 3,599 | 5,403 | 7,740  | 10,403 | 13,778 |
| 50% Exceedance                              | 13,183 | 8,560  | 6,977  | 2,095 | 534   | 523   | 933   | 2,770 | 4,828 | 6,561  | 9,025  | 12,533 |
| 60% Exceedance                              | 4,972  | 8,196  | 4,190  | 903   | 284   | 268   | 596   | 1,867 | 4,516 | 5,265  | 7,351  | 5,633  |
| 70% Exceedance                              | 4,781  | 7,740  | 2,131  | 322   | 212   | 223   | 393   | 1,112 | 4,053 | 4,808  | 6,904  | 5,489  |
| 80% Exceedance                              | 4,673  | 6,877  | 1,303  | 204   | 194   | 196   | 252   | 449   | 2,633 | 4,430  | 6,610  | 5,354  |
| 90% Exceedance                              | 4,514  | 4,161  | 793    | 189   | 188   | 187   | 193   | 254   | 1,608 | 3,998  | 6,307  | 5,213  |
| Full Simulation Period Average <sup>a</sup> | 10,091 | 10,013 | 6,471  | 3,528 | 1,698 | 1,208 | 1,744 | 3,085 | 5,021 | 6,745  | 9,199  | 10,406 |
| Wet Water Years (28%)                       | 4,486  | 6,267  | 5,307  | 390   | 210   | 269   | 389   | 975   | 2,532 | 4,073  | 6,487  | 5,161  |
| Above Normal Years (14%)                    | 4,529  | 7,026  | 5,834  | 1,788 | 391   | 293   | 460   | 1,627 | 3,643 | 4,659  | 6,725  | 5,414  |
| Below Normal Years (18%)                    | 12,848 | 11,577 | 5,398  | 3,173 | 1,457 | 746   | 1,360 | 2,855 | 5,146 | 6,697  | 9,233  | 12,653 |
| Dry Water Years (24%)                       | 14,044 | 12,022 | 6,937  | 5,744 | 2,285 | 1,473 | 2,139 | 3,700 | 5,764 | 8,333  | 11,311 | 14,309 |
| Critical Water Years (16%)                  | 16,482 | 14,900 | 9,821  | 7,617 | 4,834 | 3,776 | 5,078 | 7,392 | 9,330 | 10,916 | 12,906 | 15,573 |

**Table F.2.5-14-7c. Chipps Island South Channel Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| 10% Exceedance                              | -4,866 | -5,944 | -263  | 5,946 | 3,839 | 1,968 | 2,190 | -962  | -6,974 | -10,379 | -10,474 | -7,672  |
| 20% Exceedance                              | -4,780 | -1,667 | 3,747 | 5,081 | 2,198 | 1,565 | 1,699 | 151   | -5,203 | -10,239 | -10,930 | -7,556  |
| 30% Exceedance                              | -2,659 | 2,747  | 5,309 | 2,727 | 1,127 | 634   | 1,304 | 1,539 | -3,305 | -10,016 | -10,666 | -7,082  |
| 40% Exceedance                              | -40    | 3,521  | 6,266 | 2,265 | 539   | 441   | 840   | 1,585 | -2,382 | -8,169  | -10,961 | -6,555  |
| 50% Exceedance                              | 1,789  | 1,270  | 4,886 | 1,613 | 263   | 268   | 613   | 1,718 | -1,176 | -8,034  | -11,516 | -6,343  |
| 60% Exceedance                              | -3,803 | 2,252  | 3,162 | 596   | 41    | 37    | 350   | 1,253 | 413    | -6,889  | -11,930 | -10,515 |
| 70% Exceedance                              | -1,992 | 2,859  | 1,462 | 83    | -10   | 5     | 169   | 719   | 1,645  | -4,903  | -10,209 | -7,283  |
| 80% Exceedance                              | -1,166 | 4,265  | 922   | -16   | -11   | -13   | 46    | 215   | 1,575  | -2,835  | -6,570  | -5,388  |
| 90% Exceedance                              | 281    | 2,627  | 524   | -12   | -7    | -3    | 7     | 82    | 1,233  | -689    | -4,045  | -2,719  |
| Full Simulation Period Average <sup>a</sup> | -2,166 | 870    | 2,288 | 1,807 | 919   | 667   | 757   | 494   | -1,700 | -6,595  | -9,243  | -6,235  |
| Wet Water Years (28%)                       | -1,636 | 1,824  | 3,025 | 159   | 5     | 59    | 163   | 521   | 750    | -2,894  | -6,171  | -4,622  |
| Above Normal Years (14%)                    | -4,256 | 911    | 3,489 | 1,304 | 154   | 69    | 175   | 878   | 40     | -6,399  | -10,688 | -9,043  |
| Below Normal Years (18%)                    | 81     | 3,198  | 1,874 | 2,087 | 958   | 427   | 856   | 713   | -1,931 | -7,889  | -10,938 | -5,342  |
| Dry Water Years (24%)                       | -1,284 | 1,369  | 1,398 | 3,868 | 1,623 | 965   | 1,254 | 686   | -3,327 | -8,483  | -10,267 | -6,384  |
| Critical Water Years (16%)                  | -5,171 | -4,547 | 1,634 | 1,723 | 2,085 | 2,075 | 1,447 | -422  | -4,807 | -8,956  | -9,913  | -7,384  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-14-8a. Chipps Island South Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,274 | 20,692 | 11,896 | 3,820 | 1,342 | 1,179 | 2,318 | 7,224 | 14,752 | 20,484 | 23,327 | 23,115 |
| 20% Exceedance                              | 19,963 | 15,918 | 7,269  | 2,209 | 843   | 594   | 1,128 | 4,550 | 11,946 | 18,965 | 22,817 | 22,213 |
| 30% Exceedance                              | 17,243 | 11,117 | 5,050  | 1,651 | 411   | 336   | 784   | 2,876 | 9,390  | 18,164 | 22,006 | 21,394 |
| 40% Exceedance                              | 13,886 | 8,996  | 3,252  | 742   | 333   | 276   | 496   | 2,014 | 7,785  | 15,909 | 21,364 | 20,334 |
| 50% Exceedance                              | 11,393 | 7,290  | 2,091  | 482   | 271   | 255   | 320   | 1,052 | 6,004  | 14,595 | 20,541 | 18,876 |
| 60% Exceedance                              | 8,776  | 5,944  | 1,028  | 308   | 242   | 230   | 246   | 613   | 4,103  | 12,153 | 19,281 | 16,148 |
| 70% Exceedance                              | 6,773  | 4,881  | 668    | 239   | 222   | 219   | 223   | 393   | 2,408  | 9,711  | 17,113 | 12,772 |
| 80% Exceedance                              | 5,839  | 2,612  | 382    | 220   | 205   | 209   | 206   | 235   | 1,058  | 7,265  | 13,180 | 10,742 |
| 90% Exceedance                              | 4,232  | 1,534  | 269    | 201   | 195   | 190   | 186   | 171   | 375    | 4,687  | 10,352 | 7,932  |
| Full Simulation Period Average <sup>a</sup> | 12,257 | 9,143  | 4,182  | 1,721 | 779   | 542   | 987   | 2,591 | 6,721  | 13,340 | 18,443 | 16,642 |
| Wet Water Years (28%)                       | 6,122  | 4,443  | 2,282  | 231   | 204   | 210   | 226   | 454   | 1,782  | 6,966  | 12,659 | 9,783  |
| Above Normal Years (14%)                    | 8,785  | 6,116  | 2,345  | 485   | 237   | 224   | 285   | 749   | 3,603  | 11,058 | 17,414 | 14,457 |
| Below Normal Years (18%)                    | 12,767 | 8,380  | 3,524  | 1,087 | 499   | 318   | 504   | 2,141 | 7,076  | 14,586 | 20,171 | 17,995 |
| Dry Water Years (24%)                       | 15,328 | 10,653 | 5,539  | 1,875 | 662   | 509   | 885   | 3,013 | 9,091  | 16,816 | 21,578 | 20,693 |
| Critical Water Years (16%)                  | 21,653 | 19,447 | 8,187  | 5,894 | 2,750 | 1,701 | 3,630 | 7,813 | 14,138 | 19,872 | 22,819 | 22,957 |

**Table F.2.5-14-8b. Chipps Island South Channel Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun   | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| 10% Exceedance                              | 16,379 | 14,908 | 11,701 | 9,744 | 5,144 | 3,187 | 4,284 | 5,956 | 7,208 | 10,236 | 12,740 | 15,462 |
| 20% Exceedance                              | 15,083 | 14,303 | 10,948 | 7,595 | 3,049 | 2,112 | 2,604 | 4,250 | 6,378 | 8,722  | 11,851 | 14,621 |
| 30% Exceedance                              | 14,506 | 13,797 | 10,352 | 4,384 | 1,504 | 960   | 1,739 | 3,899 | 5,936 | 8,195  | 11,366 | 14,308 |
| 40% Exceedance                              | 13,854 | 12,580 | 9,415  | 2,974 | 870   | 706   | 1,073 | 3,106 | 5,227 | 7,788  | 10,335 | 13,764 |
| 50% Exceedance                              | 13,018 | 8,563  | 6,977  | 1,988 | 536   | 525   | 766   | 2,104 | 4,758 | 6,695  | 8,952  | 12,463 |
| 60% Exceedance                              | 4,971  | 8,168  | 4,182  | 948   | 276   | 271   | 493   | 1,506 | 4,427 | 5,138  | 7,276  | 5,645  |
| 70% Exceedance                              | 4,777  | 7,732  | 2,122  | 321   | 213   | 223   | 374   | 1,027 | 3,874 | 4,784  | 6,844  | 5,490  |
| 80% Exceedance                              | 4,679  | 6,881  | 1,292  | 204   | 194   | 196   | 241   | 410   | 2,658 | 4,417  | 6,611  | 5,344  |
| 90% Exceedance                              | 4,513  | 4,209  | 765    | 189   | 188   | 187   | 193   | 251   | 1,608 | 3,971  | 6,203  | 5,213  |
| Full Simulation Period Average <sup>a</sup> | 10,067 | 10,033 | 6,458  | 3,526 | 1,723 | 1,199 | 1,557 | 2,709 | 4,846 | 6,729  | 9,159  | 10,372 |
| Wet Water Years (28%)                       | 4,481  | 6,270  | 5,304  | 395   | 210   | 270   | 384   | 947   | 2,527 | 4,064  | 6,464  | 5,156  |
| Above Normal Years (14%)                    | 4,539  | 7,020  | 5,819  | 1,773 | 391   | 293   | 409   | 1,321 | 3,520 | 4,628  | 6,627  | 5,412  |
| Below Normal Years (18%)                    | 12,810 | 11,708 | 5,351  | 3,118 | 1,458 | 741   | 1,033 | 2,263 | 4,950 | 6,716  | 9,170  | 12,515 |
| Dry Water Years (24%)                       | 14,002 | 11,880 | 6,877  | 5,637 | 2,305 | 1,449 | 1,814 | 3,190 | 5,542 | 8,364  | 11,317 | 14,298 |
| Critical Water Years (16%)                  | 16,435 | 15,105 | 9,909  | 7,833 | 4,960 | 3,757 | 4,820 | 6,787 | 8,906 | 10,795 | 12,844 | 15,539 |

**Table F.2.5-14-8c. Chipps Island South Channel Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|---------|---------|---------|
| 10% Exceedance                              | -4,895 | -5,784 | -194  | 5,925 | 3,802 | 2,008 | 1,966 | -1,267 | -7,543 | -10,248 | -10,587 | -7,653  |
| 20% Exceedance                              | -4,880 | -1,615 | 3,679 | 5,386 | 2,206 | 1,518 | 1,476 | -300   | -5,568 | -10,243 | -10,966 | -7,592  |
| 30% Exceedance                              | -2,737 | 2,681  | 5,302 | 2,733 | 1,093 | 624   | 954   | 1,023  | -3,454 | -9,969  | -10,640 | -7,086  |
| 40% Exceedance                              | -32    | 3,584  | 6,162 | 2,231 | 537   | 429   | 576   | 1,091  | -2,558 | -8,121  | -11,029 | -6,569  |
| 50% Exceedance                              | 1,625  | 1,273  | 4,886 | 1,506 | 264   | 270   | 446   | 1,052  | -1,246 | -7,900  | -11,589 | -6,412  |
| 60% Exceedance                              | -3,805 | 2,224  | 3,154 | 641   | 33    | 41    | 247   | 893    | 323    | -7,015  | -12,005 | -10,502 |
| 70% Exceedance                              | -1,996 | 2,851  | 1,454 | 82    | -9    | 5     | 151   | 634    | 1,467  | -4,928  | -10,269 | -7,282  |
| 80% Exceedance                              | -1,160 | 4,269  | 910   | -16   | -10   | -13   | 35    | 175    | 1,599  | -2,848  | -6,569  | -5,397  |
| 90% Exceedance                              | 281    | 2,675  | 497   | -12   | -7    | -3    | 7     | 80     | 1,233  | -716    | -4,150  | -2,719  |
| Full Simulation Period Average <sup>a</sup> | -2,189 | 890    | 2,276 | 1,805 | 944   | 657   | 570   | 118    | -1,875 | -6,610  | -9,283  | -6,270  |
| Wet Water Years (28%)                       | -1,641 | 1,827  | 3,022 | 164   | 6     | 60    | 159   | 493    | 745    | -2,903  | -6,195  | -4,627  |
| Above Normal Years (14%)                    | -4,246 | 904    | 3,474 | 1,289 | 154   | 69    | 123   | 573    | -83    | -6,429  | -10,786 | -9,045  |
| Below Normal Years (18%)                    | 43     | 3,329  | 1,827 | 2,031 | 960   | 423   | 529   | 122    | -2,127 | -7,870  | -11,002 | -5,481  |
| Dry Water Years (24%)                       | -1,325 | 1,227  | 1,338 | 3,762 | 1,644 | 941   | 929   | 177    | -3,549 | -8,452  | -10,261 | -6,395  |
| Critical Water Years (16%)                  | -5,218 | -4,342 | 1,722 | 1,939 | 2,211 | 2,056 | 1,190 | -1,027 | -5,232 | -9,077  | -9,975  | -7,418  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-14-9a. Chipps Island South Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 21,274 | 20,692 | 11,896 | 3,820 | 1,342 | 1,179 | 2,318 | 7,224 | 14,752 | 20,484 | 23,327 | 23,115 |
| <b>20% Exceedance</b>                             | 19,963 | 15,918 | 7,269  | 2,209 | 843   | 594   | 1,128 | 4,550 | 11,946 | 18,965 | 22,817 | 22,213 |
| <b>30% Exceedance</b>                             | 17,243 | 11,117 | 5,050  | 1,651 | 411   | 336   | 784   | 2,876 | 9,390  | 18,164 | 22,006 | 21,394 |
| <b>40% Exceedance</b>                             | 13,886 | 8,996  | 3,252  | 742   | 333   | 276   | 496   | 2,014 | 7,785  | 15,909 | 21,364 | 20,334 |
| <b>50% Exceedance</b>                             | 11,393 | 7,290  | 2,091  | 482   | 271   | 255   | 320   | 1,052 | 6,004  | 14,595 | 20,541 | 18,876 |
| <b>60% Exceedance</b>                             | 8,776  | 5,944  | 1,028  | 308   | 242   | 230   | 246   | 613   | 4,103  | 12,153 | 19,281 | 16,148 |
| <b>70% Exceedance</b>                             | 6,773  | 4,881  | 668    | 239   | 222   | 219   | 223   | 393   | 2,408  | 9,711  | 17,113 | 12,772 |
| <b>80% Exceedance</b>                             | 5,839  | 2,612  | 382    | 220   | 205   | 209   | 206   | 235   | 1,058  | 7,265  | 13,180 | 10,742 |
| <b>90% Exceedance</b>                             | 4,232  | 1,534  | 269    | 201   | 195   | 190   | 186   | 171   | 375    | 4,687  | 10,352 | 7,932  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 12,257 | 9,143  | 4,182  | 1,721 | 779   | 542   | 987   | 2,591 | 6,721  | 13,340 | 18,443 | 16,642 |
| <b>Wet Water Years (28%)</b>                      | 6,122  | 4,443  | 2,282  | 231   | 204   | 210   | 226   | 454   | 1,782  | 6,966  | 12,659 | 9,783  |
| <b>Above Normal Years (14%)</b>                   | 8,785  | 6,116  | 2,345  | 485   | 237   | 224   | 285   | 749   | 3,603  | 11,058 | 17,414 | 14,457 |
| <b>Below Normal Years (18%)</b>                   | 12,767 | 8,380  | 3,524  | 1,087 | 499   | 318   | 504   | 2,141 | 7,076  | 14,586 | 20,171 | 17,995 |
| <b>Dry Water Years (24%)</b>                      | 15,328 | 10,653 | 5,539  | 1,875 | 662   | 509   | 885   | 3,013 | 9,091  | 16,816 | 21,578 | 20,693 |
| <b>Critical Water Years (16%)</b>                 | 21,653 | 19,447 | 8,187  | 5,894 | 2,750 | 1,701 | 3,630 | 7,813 | 14,138 | 19,872 | 22,819 | 22,957 |

**Table F.2.5-14-9b. Chipps Island South Channel Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 15,801 | 15,169 | 12,049 | 9,582 | 4,894 | 4,332 | 5,391 | 8,271 | 11,241 | 12,941 | 14,098 | 15,539 |
| <b>20% Exceedance</b>                             | 15,183 | 14,295 | 11,241 | 7,394 | 3,102 | 2,668 | 4,035 | 4,675 | 6,565  | 9,035  | 11,807 | 14,597 |
| <b>30% Exceedance</b>                             | 14,546 | 13,863 | 10,446 | 5,270 | 1,561 | 1,076 | 2,286 | 4,501 | 6,062  | 8,105  | 11,356 | 14,326 |
| <b>40% Exceedance</b>                             | 13,997 | 12,693 | 9,424  | 2,937 | 888   | 770   | 1,565 | 3,939 | 5,564  | 7,549  | 10,385 | 13,739 |
| <b>50% Exceedance</b>                             | 12,708 | 8,562  | 6,975  | 1,899 | 539   | 625   | 1,070 | 2,979 | 4,799  | 6,496  | 9,096  | 12,528 |
| <b>60% Exceedance</b>                             | 4,955  | 8,210  | 4,175  | 868   | 287   | 275   | 677   | 1,899 | 4,477  | 5,237  | 7,385  | 5,669  |
| <b>70% Exceedance</b>                             | 4,778  | 7,782  | 2,174  | 313   | 211   | 222   | 414   | 1,097 | 4,045  | 4,863  | 6,911  | 5,507  |
| <b>80% Exceedance</b>                             | 4,679  | 6,877  | 1,295  | 203   | 194   | 195   | 248   | 453   | 2,654  | 4,485  | 6,680  | 5,368  |
| <b>90% Exceedance</b>                             | 4,519  | 4,154  | 799    | 189   | 188   | 187   | 193   | 252   | 1,578  | 3,998  | 6,420  | 5,235  |
| <b>Full Simulation Period Average<sup>a</sup></b> | 10,027 | 10,068 | 6,515  | 3,428 | 1,611 | 1,381 | 2,139 | 3,442 | 5,224  | 7,024  | 9,403  | 10,402 |
| <b>Wet Water Years (28%)</b>                      | 4,482  | 6,267  | 5,307  | 373   | 209   | 271   | 404   | 980   | 2,510  | 4,105  | 6,514  | 5,172  |
| <b>Above Normal Years (14%)</b>                   | 4,525  | 7,027  | 5,939  | 1,782 | 387   | 296   | 584   | 1,810 | 3,602  | 4,720  | 6,809  | 5,437  |
| <b>Below Normal Years (18%)</b>                   | 12,827 | 11,605 | 5,410  | 3,096 | 1,419 | 874   | 1,566 | 2,894 | 5,093  | 6,650  | 9,223  | 12,596 |
| <b>Dry Water Years (24%)</b>                      | 14,038 | 12,001 | 7,079  | 5,754 | 2,233 | 1,670 | 2,383 | 3,820 | 5,755  | 8,319  | 11,320 | 14,304 |
| <b>Critical Water Years (16%)</b>                 | 16,106 | 15,268 | 9,765  | 7,100 | 4,416 | 4,411 | 6,815 | 9,226 | 10,741 | 12,630 | 14,053 | 15,580 |

**Table F.2.5-14-9c. Chipps Island South Channel Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| <b>10% Exceedance</b>                             | -5,472 | -5,523 | 153   | 5,762 | 3,552 | 3,153 | 3,073 | 1,048 | -3,510 | -7,543  | -9,229  | -7,575  |
| <b>20% Exceedance</b>                             | -4,780 | -1,623 | 3,972 | 5,184 | 2,259 | 2,074 | 2,906 | 126   | -5,381 | -9,930  | -11,010 | -7,617  |
| <b>30% Exceedance</b>                             | -2,697 | 2,747  | 5,396 | 3,619 | 1,151 | 740   | 1,502 | 1,625 | -3,328 | -10,059 | -10,650 | -7,068  |
| <b>40% Exceedance</b>                             | 111    | 3,697  | 6,171 | 2,194 | 555   | 493   | 1,069 | 1,925 | -2,221 | -8,360  | -10,979 | -6,594  |
| <b>50% Exceedance</b>                             | 1,314  | 1,272  | 4,884 | 1,417 | 268   | 370   | 750   | 1,926 | -1,205 | -8,099  | -11,445 | -6,347  |
| <b>60% Exceedance</b>                             | -3,820 | 2,266  | 3,147 | 560   | 45    | 45    | 431   | 1,285 | 374    | -6,916  | -11,896 | -10,479 |
| <b>70% Exceedance</b>                             | -1,994 | 2,901  | 1,506 | 75    | -11   | 4     | 191   | 704   | 1,637  | -4,848  | -10,202 | -7,265  |
| <b>80% Exceedance</b>                             | -1,160 | 4,265  | 913   | -17   | -11   | -14   | 42    | 218   | 1,595  | -2,780  | -6,500  | -5,374  |
| <b>90% Exceedance</b>                             | 286    | 2,620  | 530   | -12   | -7    | -3    | 7     | 81    | 1,202  | -689    | -3,932  | -2,697  |
| <b>Full Simulation Period Average<sup>a</sup></b> | -2,229 | 925    | 2,332 | 1,707 | 832   | 840   | 1,152 | 851   | -1,497 | -6,315  | -9,040  | -6,239  |
| <b>Wet Water Years (28%)</b>                      | -1,640 | 1,824  | 3,025 | 142   | 4     | 61    | 179   | 526   | 728    | -2,861  | -6,144  | -4,611  |
| <b>Above Normal Years (14%)</b>                   | -4,260 | 911    | 3,595 | 1,297 | 151   | 72    | 299   | 1,061 | 0      | -6,338  | -10,604 | -9,020  |
| <b>Below Normal Years (18%)</b>                   | 60     | 3,226  | 1,885 | 2,009 | 921   | 556   | 1,061 | 753   | -1,984 | -7,936  | -10,948 | -5,399  |
| <b>Dry Water Years (24%)</b>                      | -1,290 | 1,348  | 1,540 | 3,879 | 1,572 | 1,162 | 1,498 | 806   | -3,336 | -8,497  | -10,258 | -6,389  |
| <b>Critical Water Years (16%)</b>                 | -5,547 | -4,179 | 1,578 | 1,206 | 1,666 | 2,710 | 3,185 | 1,413 | -3,396 | -7,243  | -8,766  | -7,376  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-14-10a. Chipps Island South Channel Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,274 | 20,692 | 11,896 | 3,820 | 1,342 | 1,179 | 2,318 | 7,224 | 14,752 | 20,484 | 23,327 | 23,115 |
| 20% Exceedance                              | 19,963 | 15,918 | 7,269  | 2,209 | 843   | 594   | 1,128 | 4,550 | 11,946 | 18,965 | 22,817 | 22,213 |
| 30% Exceedance                              | 17,243 | 11,117 | 5,050  | 1,651 | 411   | 336   | 784   | 2,876 | 9,390  | 18,164 | 22,006 | 21,394 |
| 40% Exceedance                              | 13,886 | 8,996  | 3,252  | 742   | 333   | 276   | 496   | 2,014 | 7,785  | 15,909 | 21,364 | 20,334 |
| 50% Exceedance                              | 11,393 | 7,290  | 2,091  | 482   | 271   | 255   | 320   | 1,052 | 6,004  | 14,595 | 20,541 | 18,876 |
| 60% Exceedance                              | 8,776  | 5,944  | 1,028  | 308   | 242   | 230   | 246   | 613   | 4,103  | 12,153 | 19,281 | 16,148 |
| 70% Exceedance                              | 6,773  | 4,881  | 668    | 239   | 222   | 219   | 223   | 393   | 2,408  | 9,711  | 17,113 | 12,772 |
| 80% Exceedance                              | 5,839  | 2,612  | 382    | 220   | 205   | 209   | 206   | 235   | 1,058  | 7,265  | 13,180 | 10,742 |
| 90% Exceedance                              | 4,232  | 1,534  | 269    | 201   | 195   | 190   | 186   | 171   | 375    | 4,687  | 10,352 | 7,932  |
| Full Simulation Period Average <sup>a</sup> | 12,257 | 9,143  | 4,182  | 1,721 | 779   | 542   | 987   | 2,591 | 6,721  | 13,340 | 18,443 | 16,642 |
| Wet Water Years (28%)                       | 6,122  | 4,443  | 2,282  | 231   | 204   | 210   | 226   | 454   | 1,782  | 6,966  | 12,659 | 9,783  |
| Above Normal Years (14%)                    | 8,785  | 6,116  | 2,345  | 485   | 237   | 224   | 285   | 749   | 3,603  | 11,058 | 17,414 | 14,457 |
| Below Normal Years (18%)                    | 12,767 | 8,380  | 3,524  | 1,087 | 499   | 318   | 504   | 2,141 | 7,076  | 14,586 | 20,171 | 17,995 |
| Dry Water Years (24%)                       | 15,328 | 10,653 | 5,539  | 1,875 | 662   | 509   | 885   | 3,013 | 9,091  | 16,816 | 21,578 | 20,693 |
| Critical Water Years (16%)                  | 21,653 | 19,447 | 8,187  | 5,894 | 2,750 | 1,701 | 3,630 | 7,813 | 14,138 | 19,872 | 22,819 | 22,957 |

**Table F.2.5-14-10b. Chipps Island South Channel Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 10% Exceedance                              | 15,784 | 15,270 | 11,984 | 9,982 | 5,239 | 4,280 | 6,068 | 8,669 | 11,235 | 12,825 | 14,075 | 15,457 |
| 20% Exceedance                              | 15,083 | 14,153 | 11,062 | 8,320 | 3,549 | 2,651 | 3,977 | 4,523 | 6,627  | 8,724  | 11,840 | 14,632 |
| 30% Exceedance                              | 14,498 | 13,879 | 10,385 | 4,904 | 1,632 | 1,092 | 2,224 | 4,185 | 5,770  | 8,197  | 11,185 | 14,097 |
| 40% Exceedance                              | 13,971 | 12,681 | 9,553  | 2,815 | 932   | 785   | 1,430 | 3,472 | 5,338  | 7,735  | 10,594 | 13,679 |
| 50% Exceedance                              | 13,180 | 8,951  | 7,233  | 1,835 | 523   | 609   | 1,012 | 2,351 | 4,713  | 6,578  | 9,023  | 11,765 |
| 60% Exceedance                              | 4,924  | 8,253  | 4,005  | 985   | 320   | 276   | 591   | 1,605 | 4,369  | 5,295  | 7,187  | 5,559  |
| 70% Exceedance                              | 4,767  | 8,052  | 2,304  | 322   | 211   | 223   | 395   | 982   | 3,942  | 4,682  | 6,750  | 5,321  |
| 80% Exceedance                              | 4,666  | 7,033  | 1,353  | 205   | 194   | 194   | 246   | 407   | 2,665  | 4,348  | 6,462  | 5,179  |
| 90% Exceedance                              | 4,482  | 4,159  | 802    | 189   | 186   | 187   | 193   | 229   | 1,566  | 4,039  | 6,133  | 5,076  |
| Full Simulation Period Average <sup>a</sup> | 9,974  | 10,189 | 6,534  | 3,601 | 1,729 | 1,374 | 2,103 | 3,258 | 5,177  | 7,023  | 9,347  | 10,246 |
| Wet Water Years (28%)                       | 4,463  | 6,289  | 5,300  | 407   | 209   | 268   | 364   | 838   | 2,480  | 4,018  | 6,285  | 5,053  |
| Above Normal Years (14%)                    | 4,479  | 7,244  | 5,874  | 1,799 | 389   | 296   | 524   | 1,524 | 3,584  | 4,636  | 6,662  | 5,123  |
| Below Normal Years (18%)                    | 12,738 | 11,982 | 5,517  | 3,071 | 1,480 | 899   | 1,476 | 2,445 | 4,943  | 6,783  | 9,414  | 12,383 |
| Dry Water Years (24%)                       | 13,952 | 11,984 | 7,017  | 6,029 | 2,468 | 1,697 | 2,293 | 3,582 | 5,600  | 8,268  | 11,227 | 14,120 |
| Critical Water Years (16%)                  | 16,077 | 15,389 | 9,943  | 7,719 | 4,732 | 4,302 | 6,946 | 9,436 | 10,917 | 12,775 | 14,158 | 15,600 |

**Table F.2.5-14-10c. Chipps Island South Channel Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul     | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|
| 10% Exceedance                              | -5,490 | -5,422 | 89    | 6,163 | 3,897 | 3,101 | 3,750 | 1,446 | -3,517 | -7,659  | -9,252  | -7,657  |
| 20% Exceedance                              | -4,880 | -1,765 | 3,794 | 6,110 | 2,705 | 2,057 | 2,849 | -27   | -5,319 | -10,241 | -10,977 | -7,581  |
| 30% Exceedance                              | -2,745 | 2,762  | 5,336 | 3,253 | 1,222 | 756   | 1,440 | 1,309 | -3,619 | -9,966  | -10,820 | -7,297  |
| 40% Exceedance                              | 85     | 3,685  | 6,300 | 2,073 | 599   | 508   | 934   | 1,458 | -2,447 | -8,174  | -10,770 | -6,654  |
| 50% Exceedance                              | 1,787  | 1,661  | 5,142 | 1,353 | 252   | 354   | 692   | 1,298 | -1,291 | -8,017  | -11,518 | -7,111  |
| 60% Exceedance                              | -3,852 | 2,309  | 2,977 | 677   | 78    | 45    | 345   | 992   | 266    | -6,859  | -12,094 | -10,589 |
| 70% Exceedance                              | -2,005 | 3,171  | 1,635 | 83    | -11   | 5     | 172   | 589   | 1,534  | -5,030  | -10,362 | -7,450  |
| 80% Exceedance                              | -1,172 | 4,421  | 971   | -15   | -11   | -15   | 41    | 173   | 1,607  | -2,917  | -6,718  | -5,563  |
| 90% Exceedance                              | 250    | 2,625  | 533   | -12   | -9    | -2    | 7     | 58    | 1,191  | -647    | -4,220  | -2,857  |
| Full Simulation Period Average <sup>a</sup> | -2,282 | 1,045  | 2,351 | 1,879 | 950   | 832   | 1,115 | 667   | -1,544 | -6,316  | -9,096  | -6,396  |
| Wet Water Years (28%)                       | -1,658 | 1,847  | 3,018 | 176   | 5     | 58    | 139   | 385   | 698    | -2,948  | -6,373  | -4,730  |
| Above Normal Years (14%)                    | -4,306 | 1,128  | 3,529 | 1,314 | 152   | 72    | 239   | 775   | -19    | -6,422  | -10,752 | -9,334  |
| Below Normal Years (18%)                    | -29    | 3,602  | 1,993 | 1,985 | 981   | 580   | 971   | 304   | -2,133 | -7,803  | -10,757 | -5,612  |
| Dry Water Years (24%)                       | -1,376 | 1,331  | 1,478 | 4,154 | 1,806 | 1,189 | 1,408 | 569   | -3,491 | -8,548  | -10,351 | -6,573  |
| Critical Water Years (16%)                  | -5,576 | -4,058 | 1,756 | 1,825 | 1,982 | 2,601 | 3,315 | 1,622 | -3,221 | -7,098  | -8,661  | -7,357  |

<sup>a</sup> Based on the 100-year simulation period.

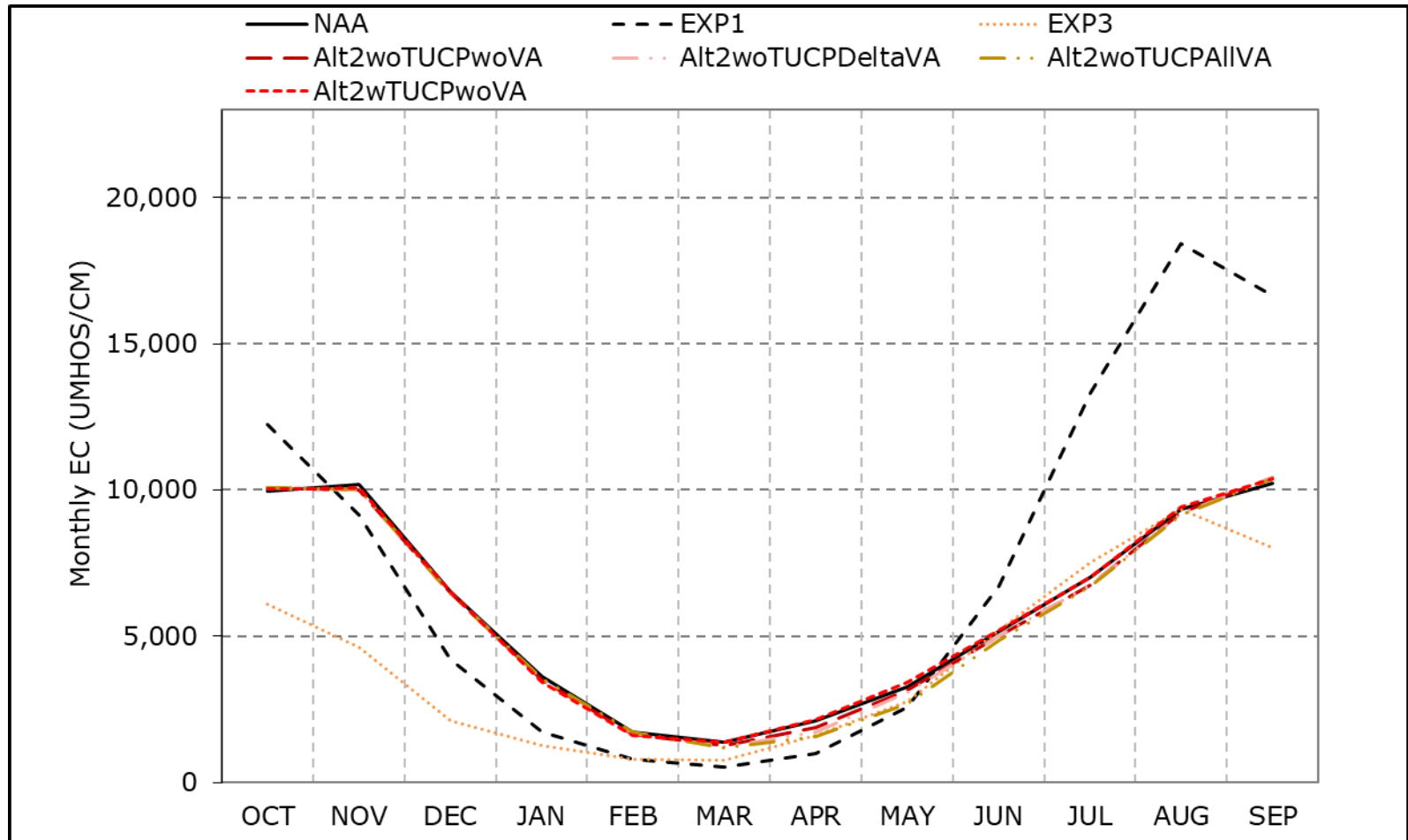
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-14-1. Chipps Island South Channel Salinity, Long-Term Average EC**

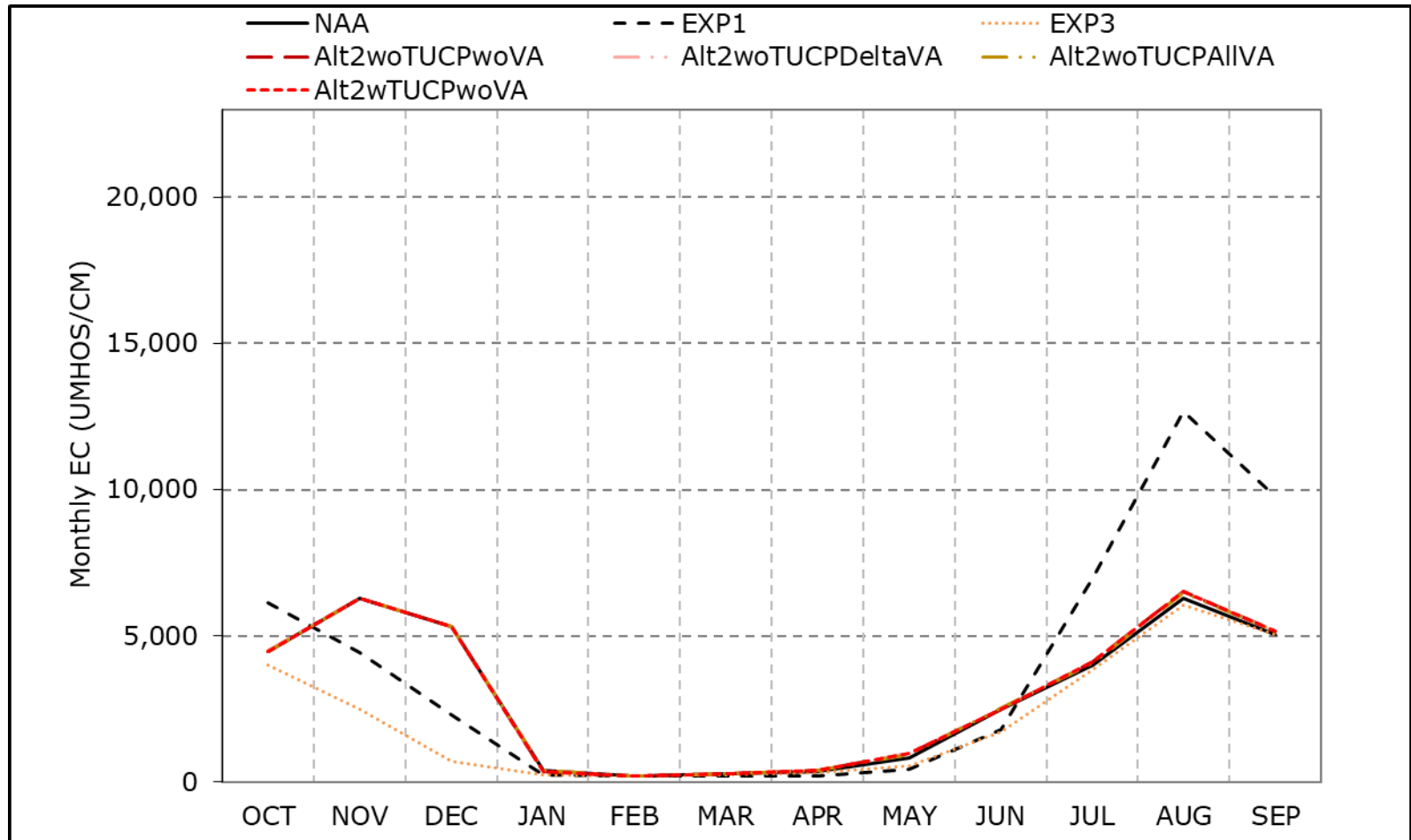


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-2. Chipps Island South Channel Salinity, Wet Year Average EC**

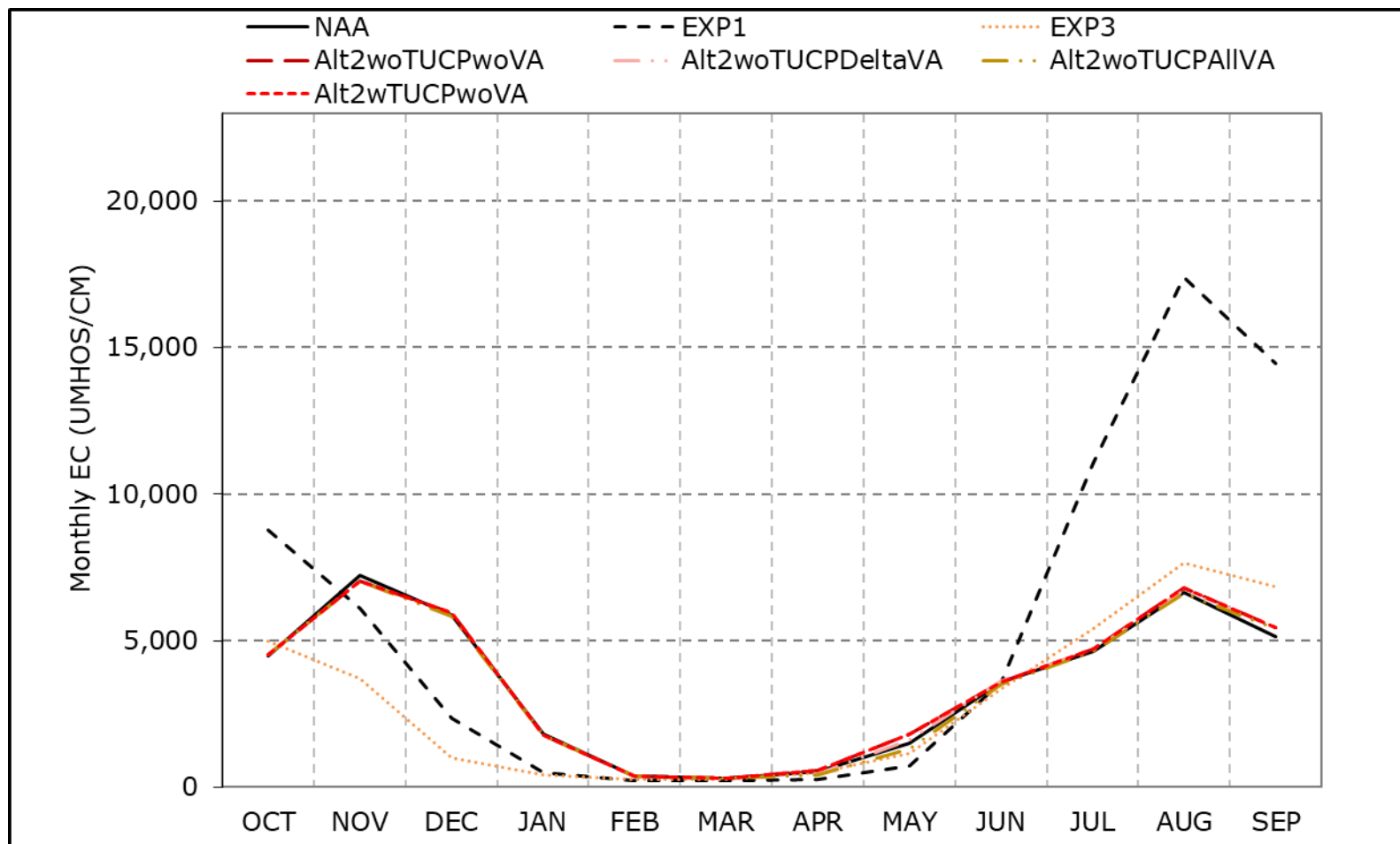


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-3. Chipps Island South Channel Salinity, Above Normal Year Average EC**

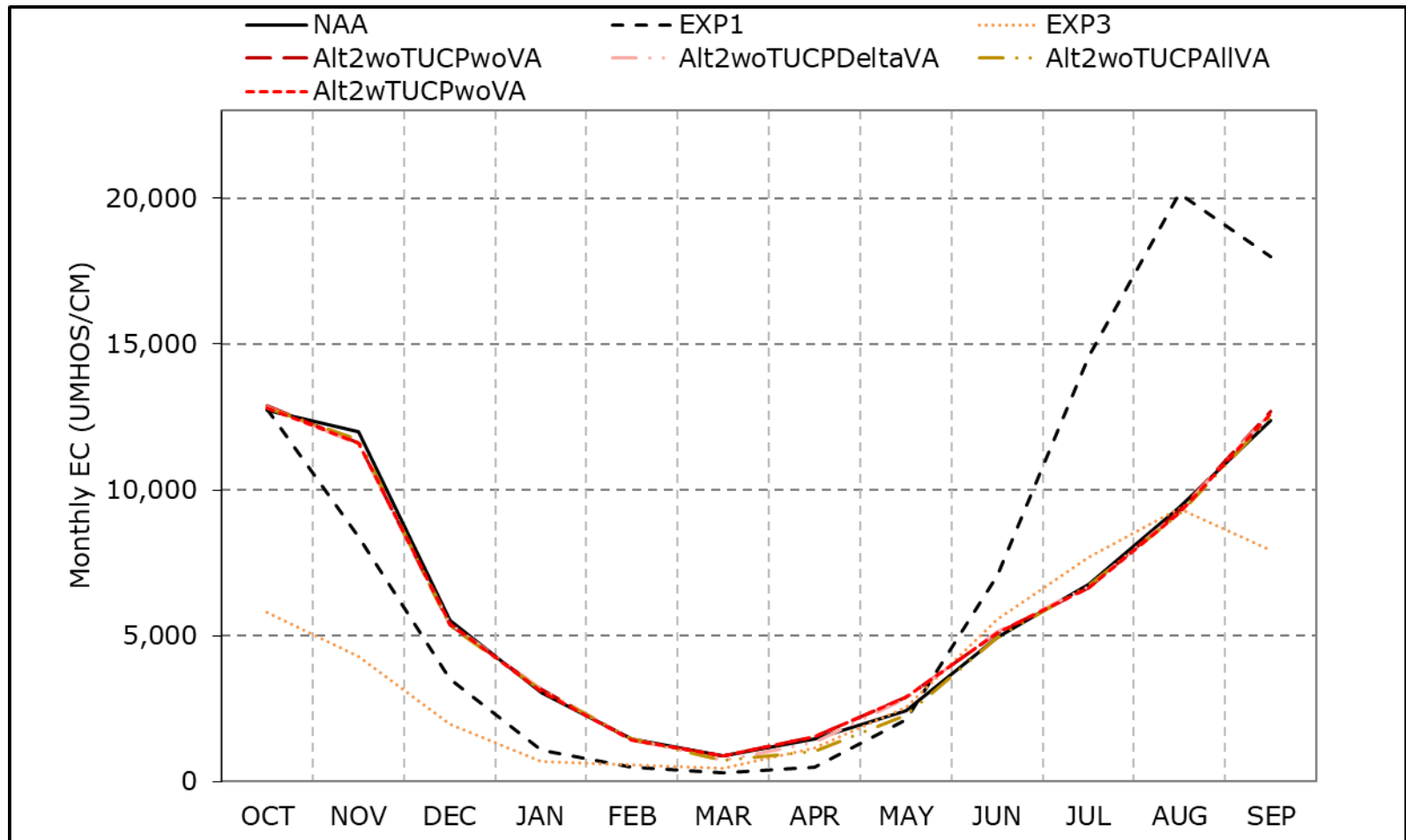


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-4. Chipps Island South Channel Salinity, Below Normal Year Average EC**

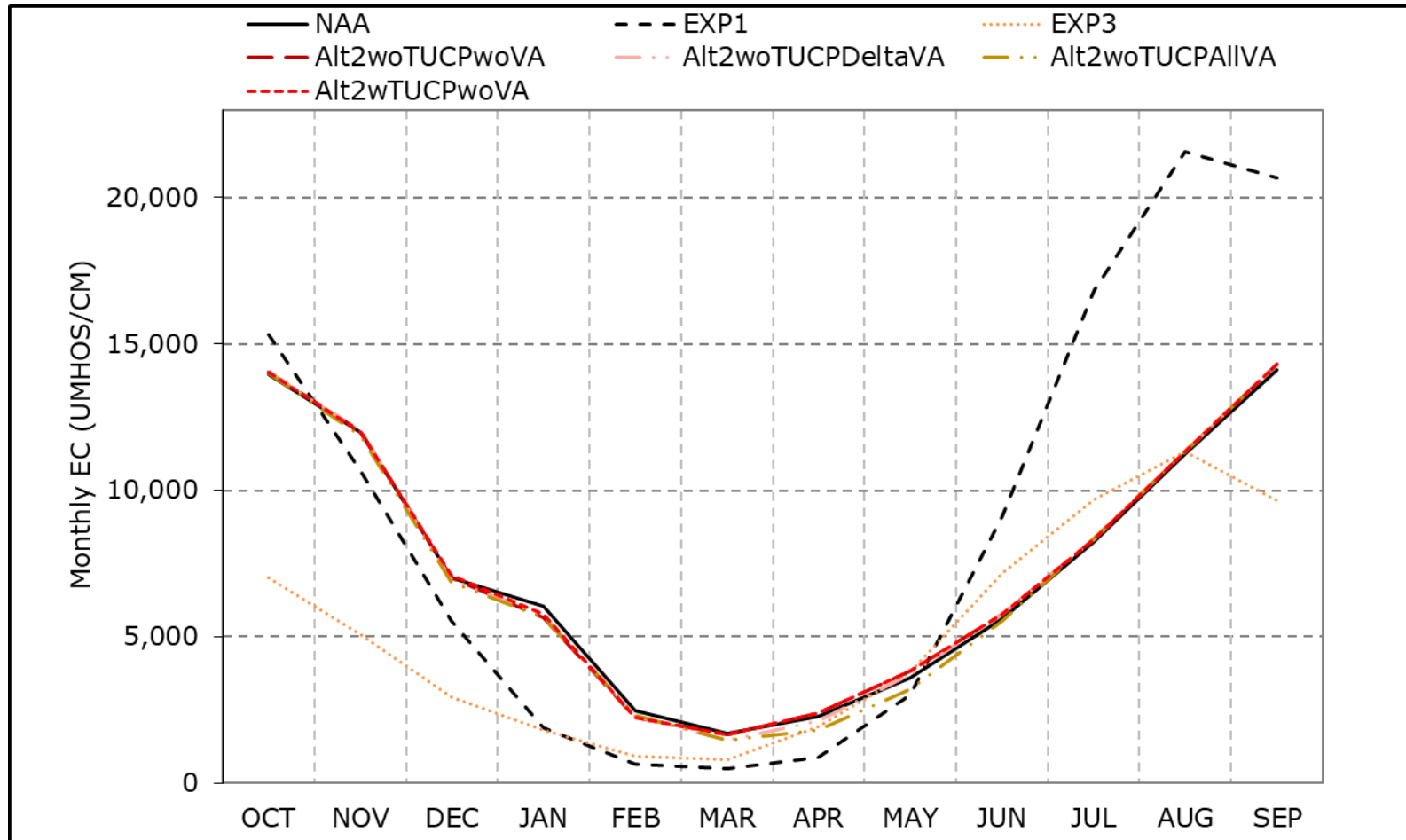


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-5. Chipps Island South Channel Salinity, Dry Year Average EC**

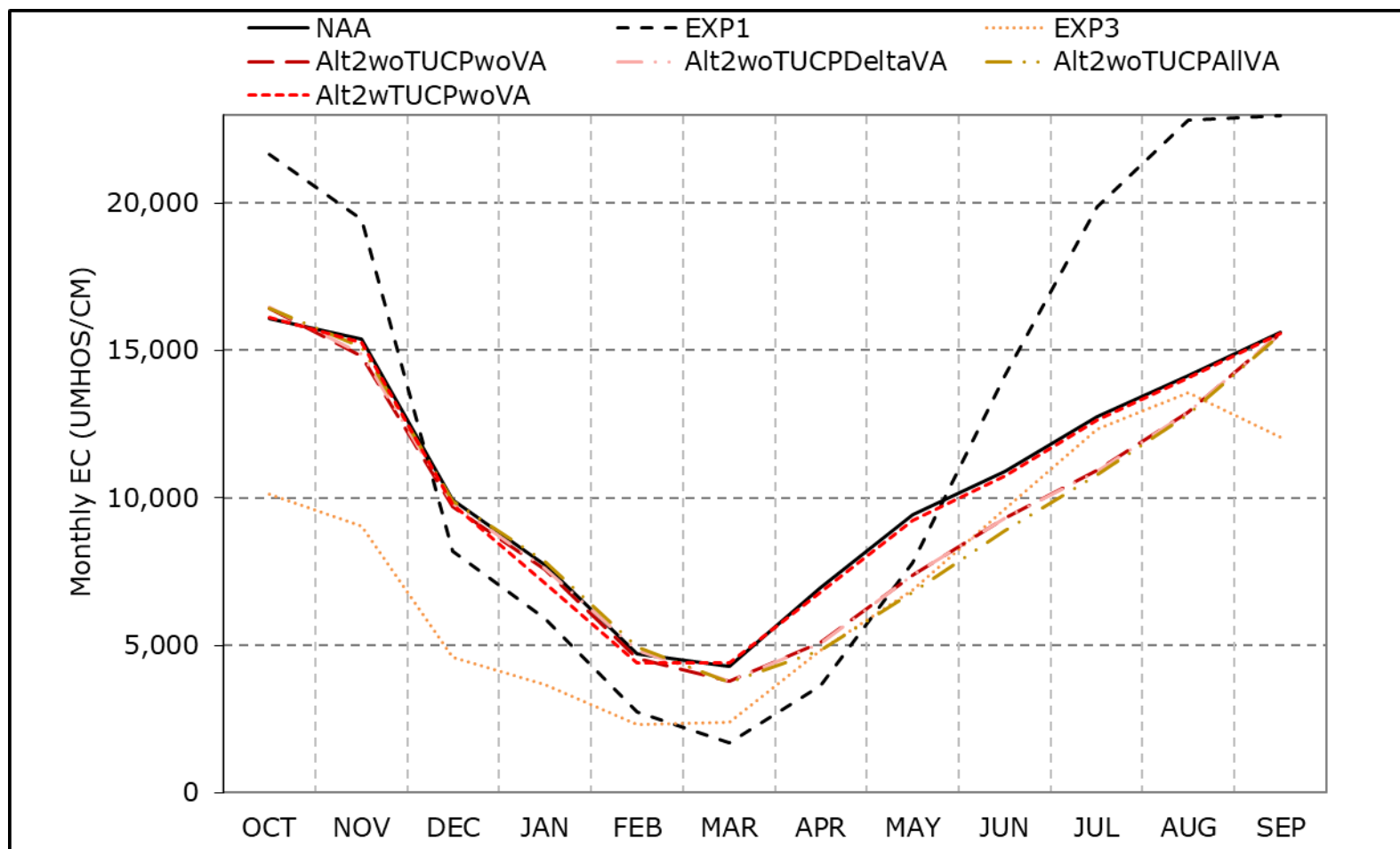


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-6. Chipps Island South Channel Salinity, Critical Year Average EC**

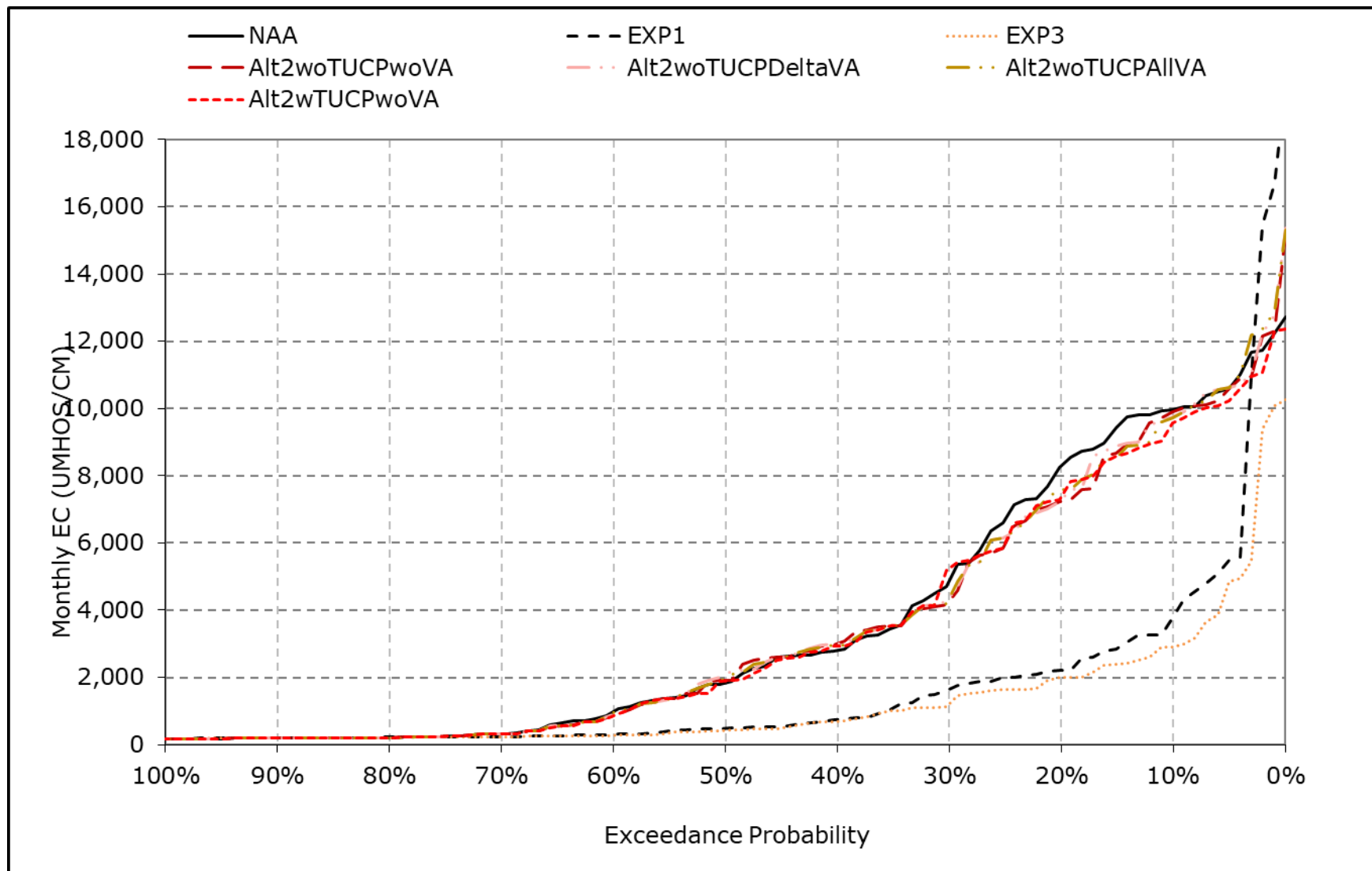


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

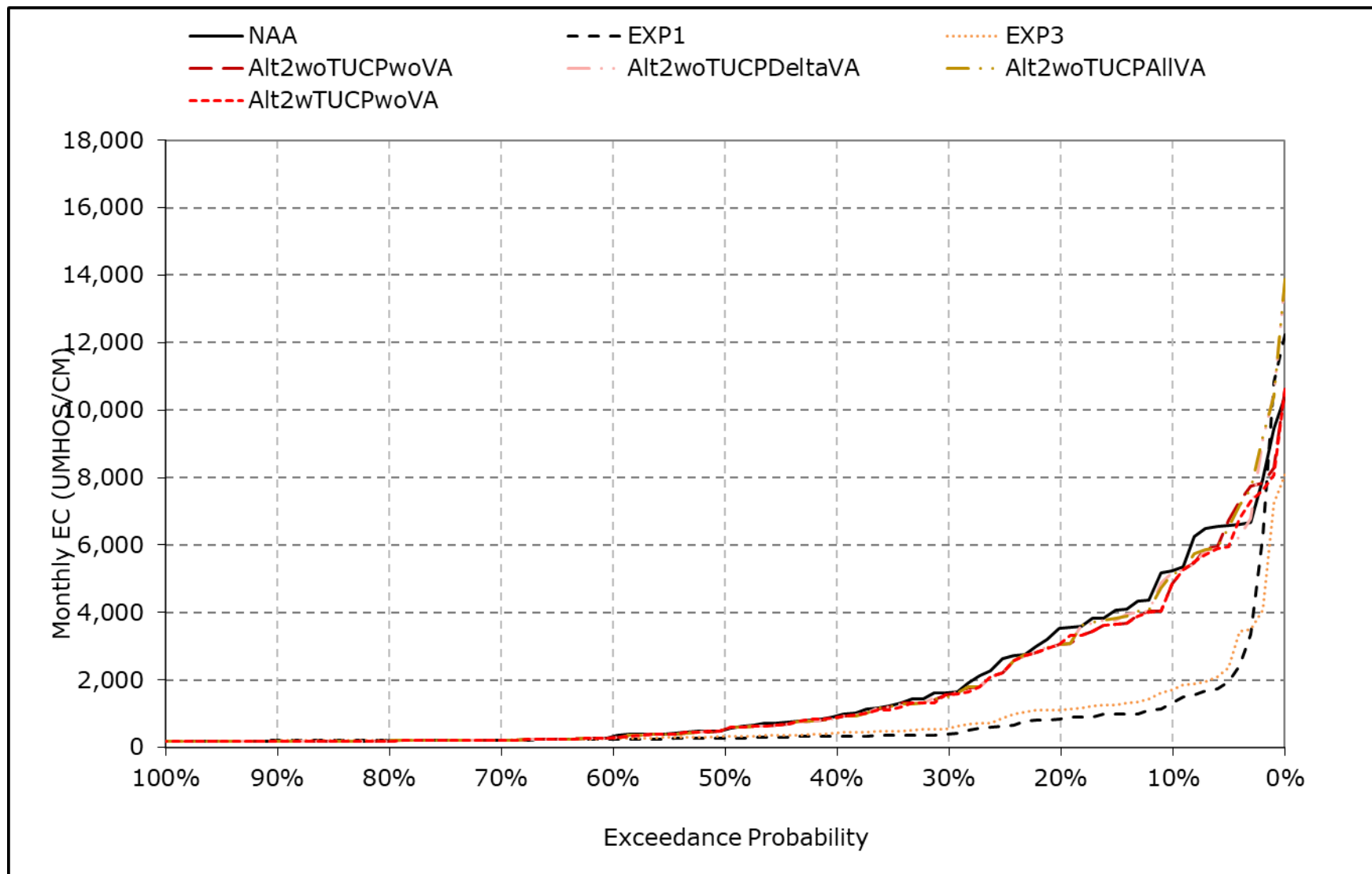
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-7. Chipps Island South Channel Salinity, January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

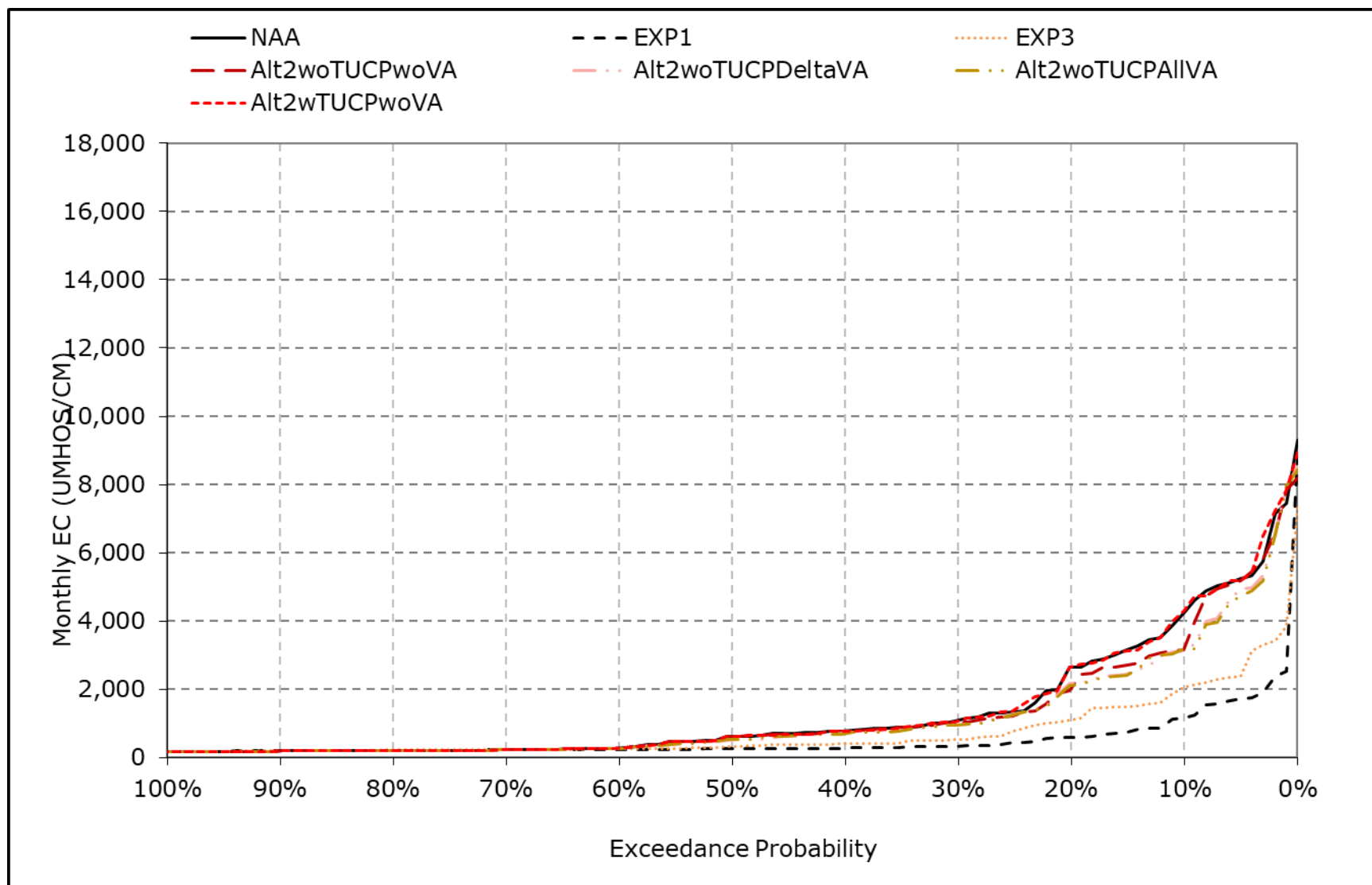
**Figure F.2.5-14-8. Chipps Island South Channel Salinity, February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

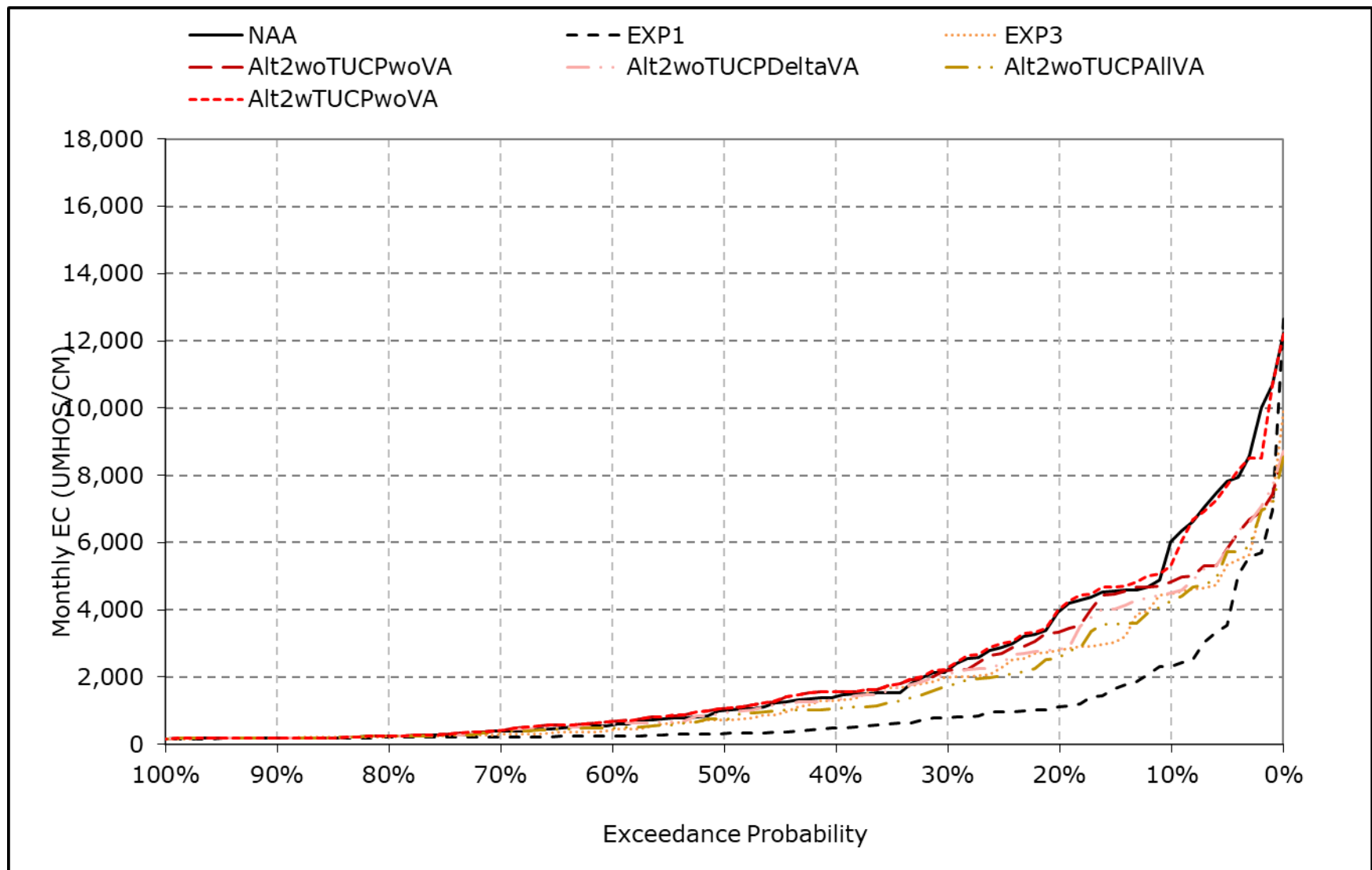


**Figure F.2.5-14-9. Chipps Island South Channel Salinity, March EC**



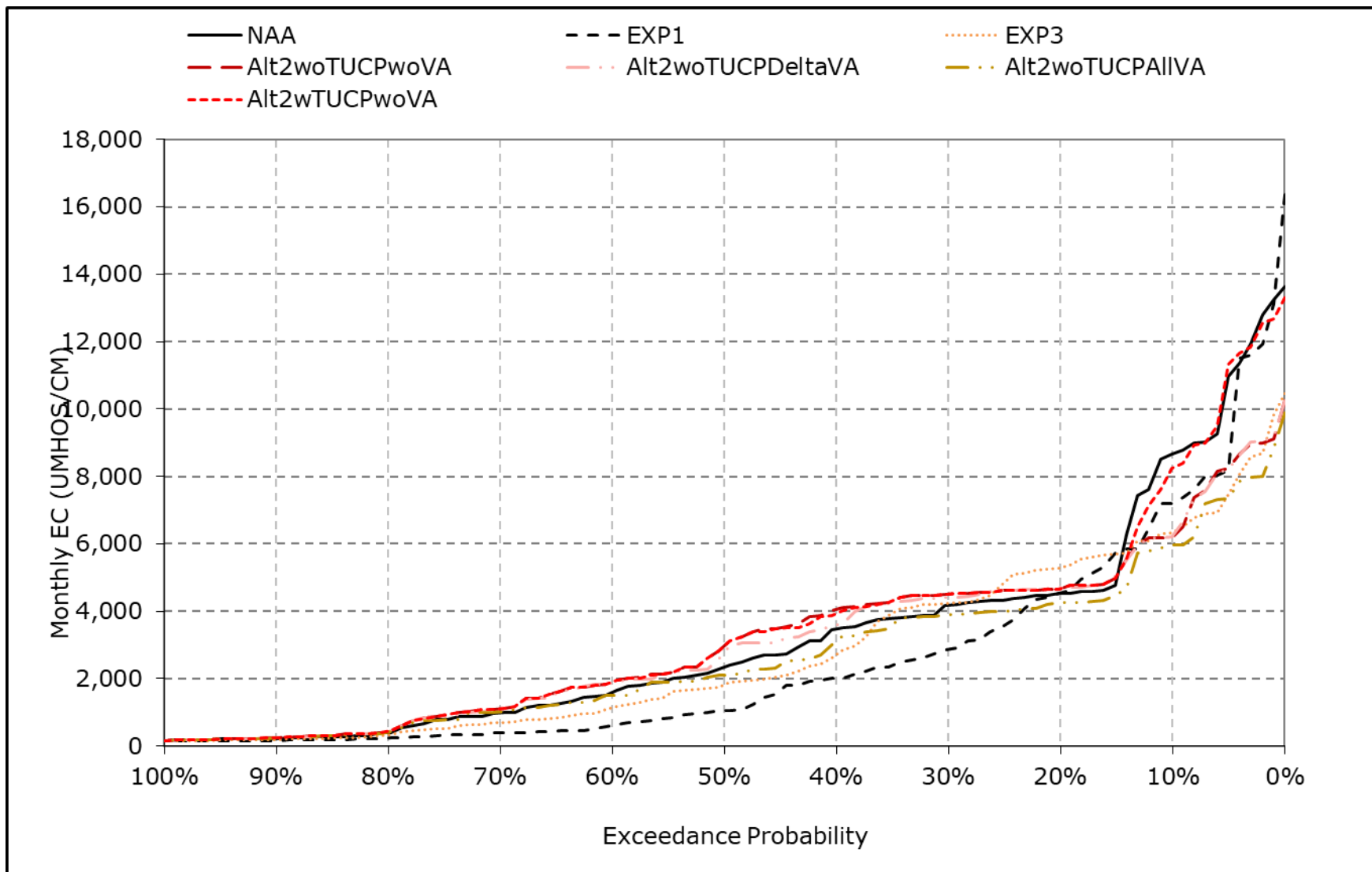
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-10. Chipps Island South Channel Salinity, April EC**



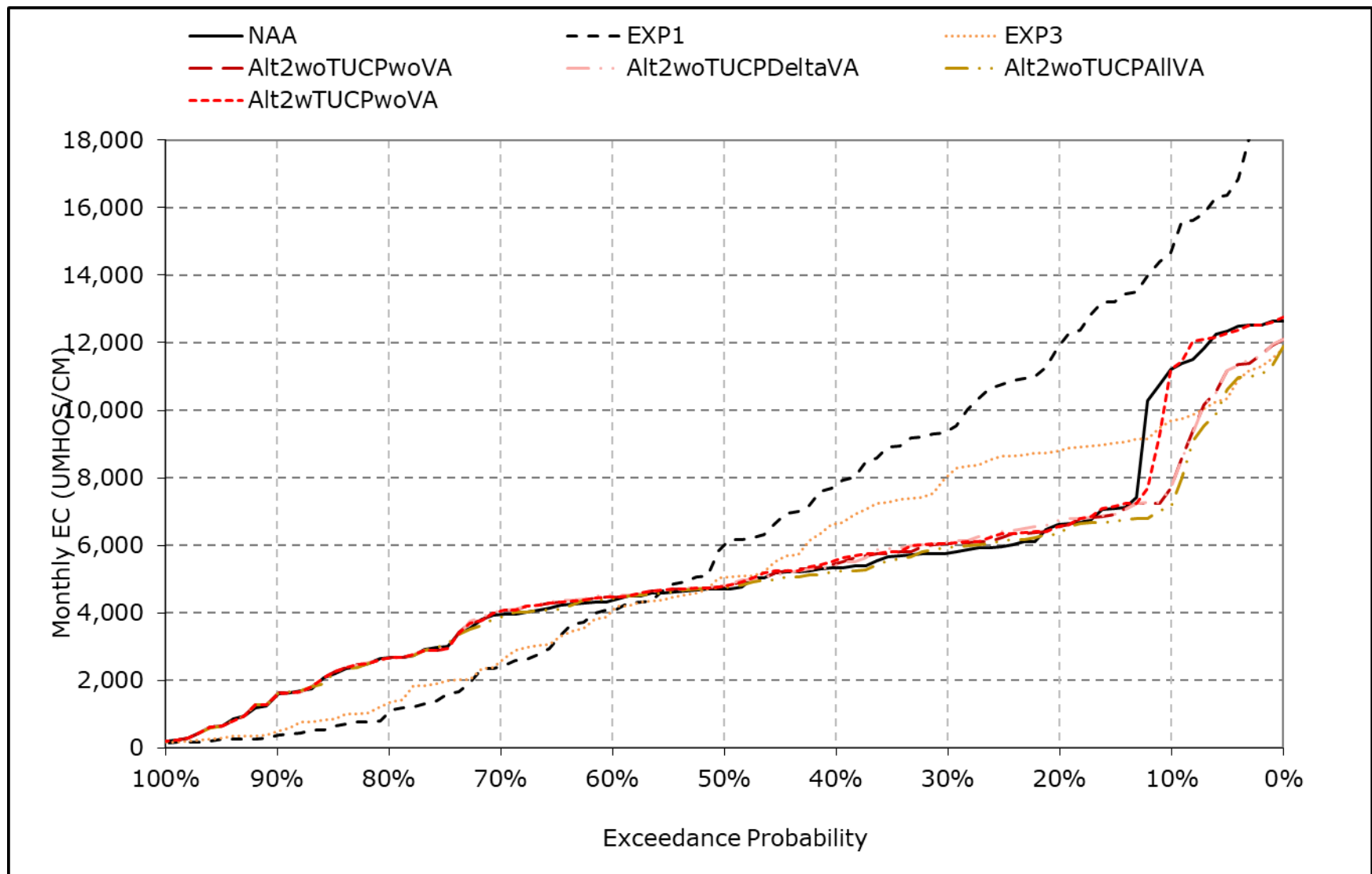
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-11. Chipps Island South Channel Salinity, May EC**



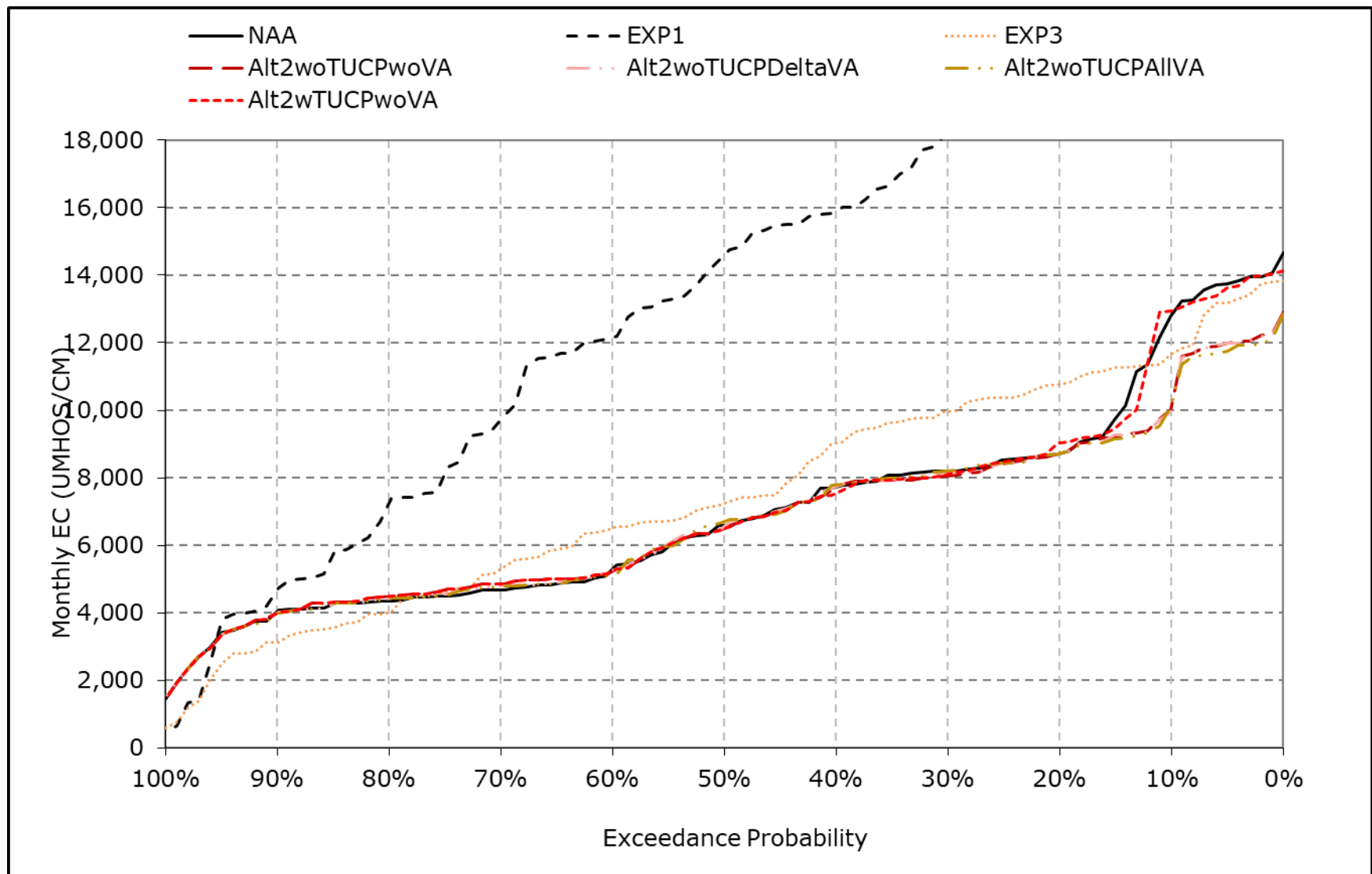
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-12. Chipps Island South Channel Salinity, June EC**



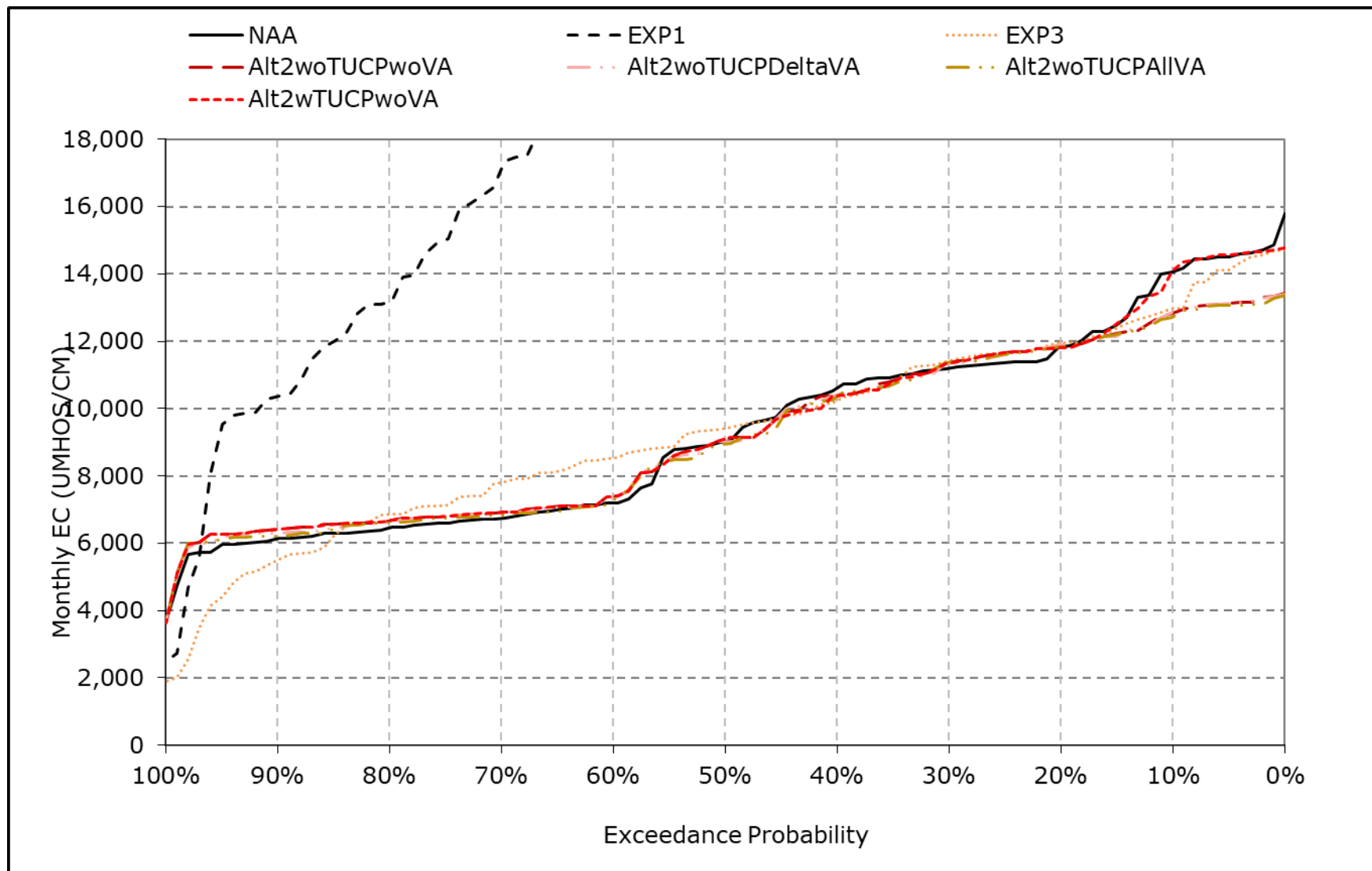
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-13. Chipps Island South Channel Salinity, July EC**



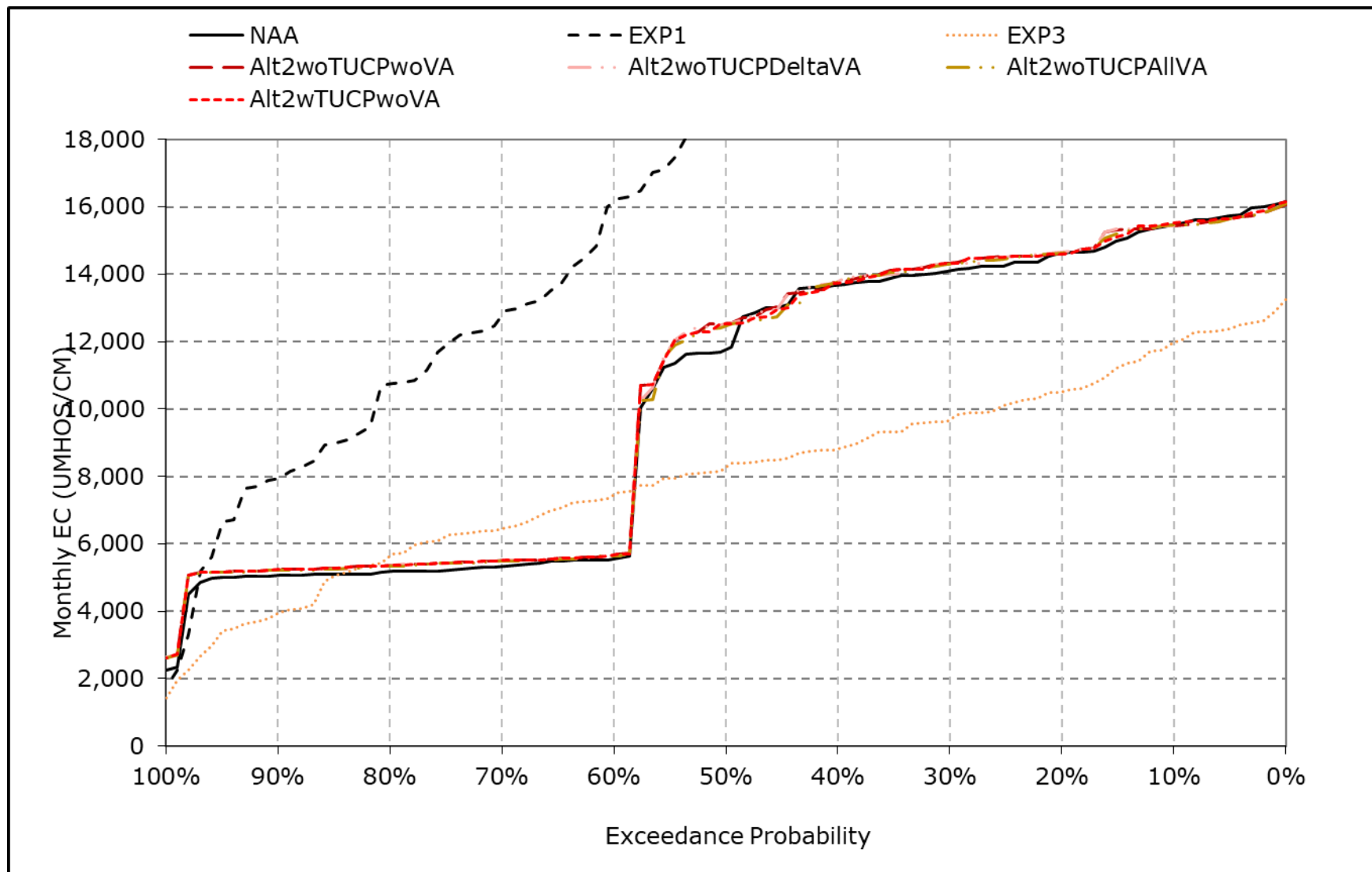
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-14. Chipps Island South Channel Salinity, August EC**



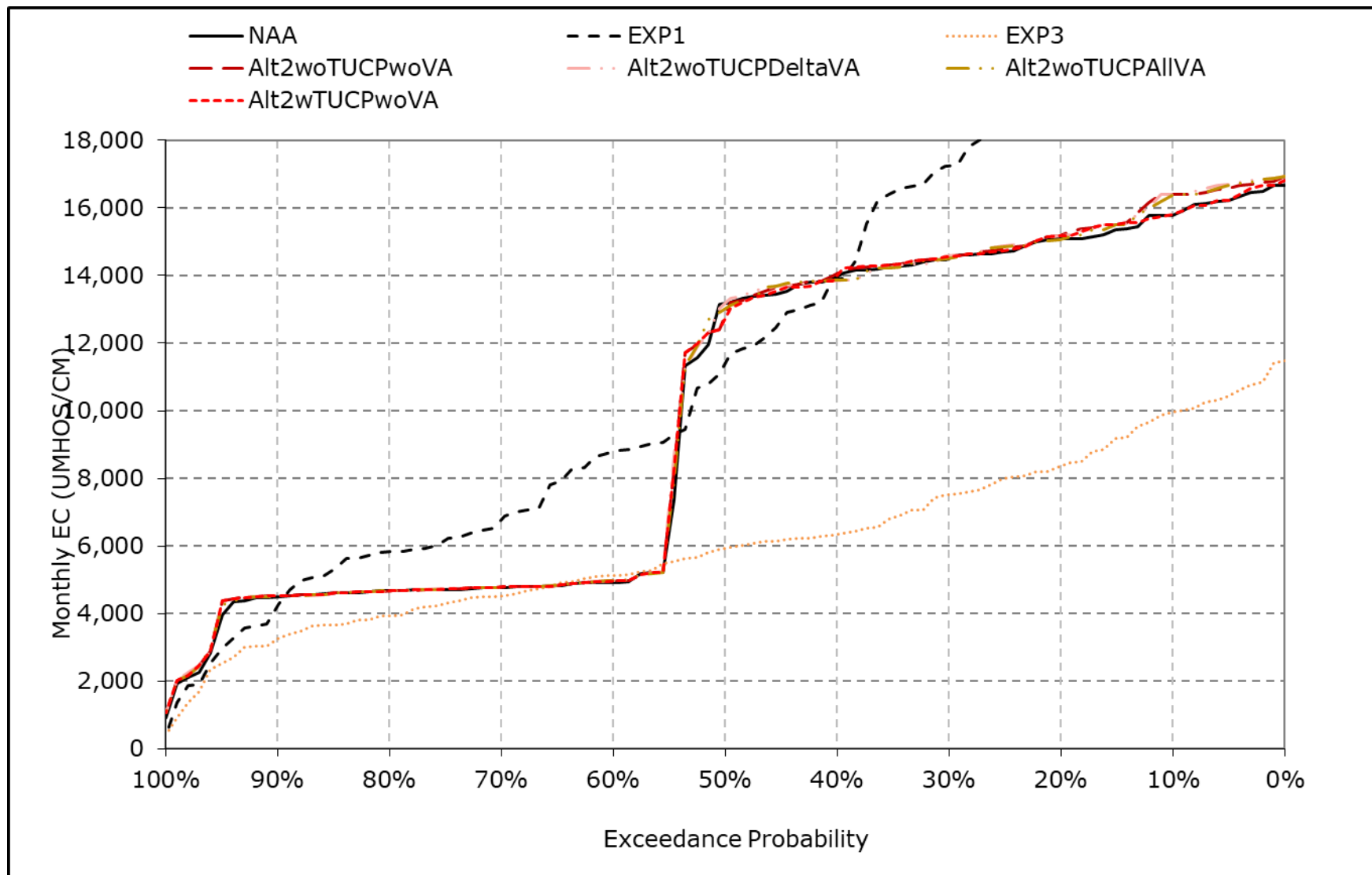
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-15. Chipps Island South Channel Salinity, September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

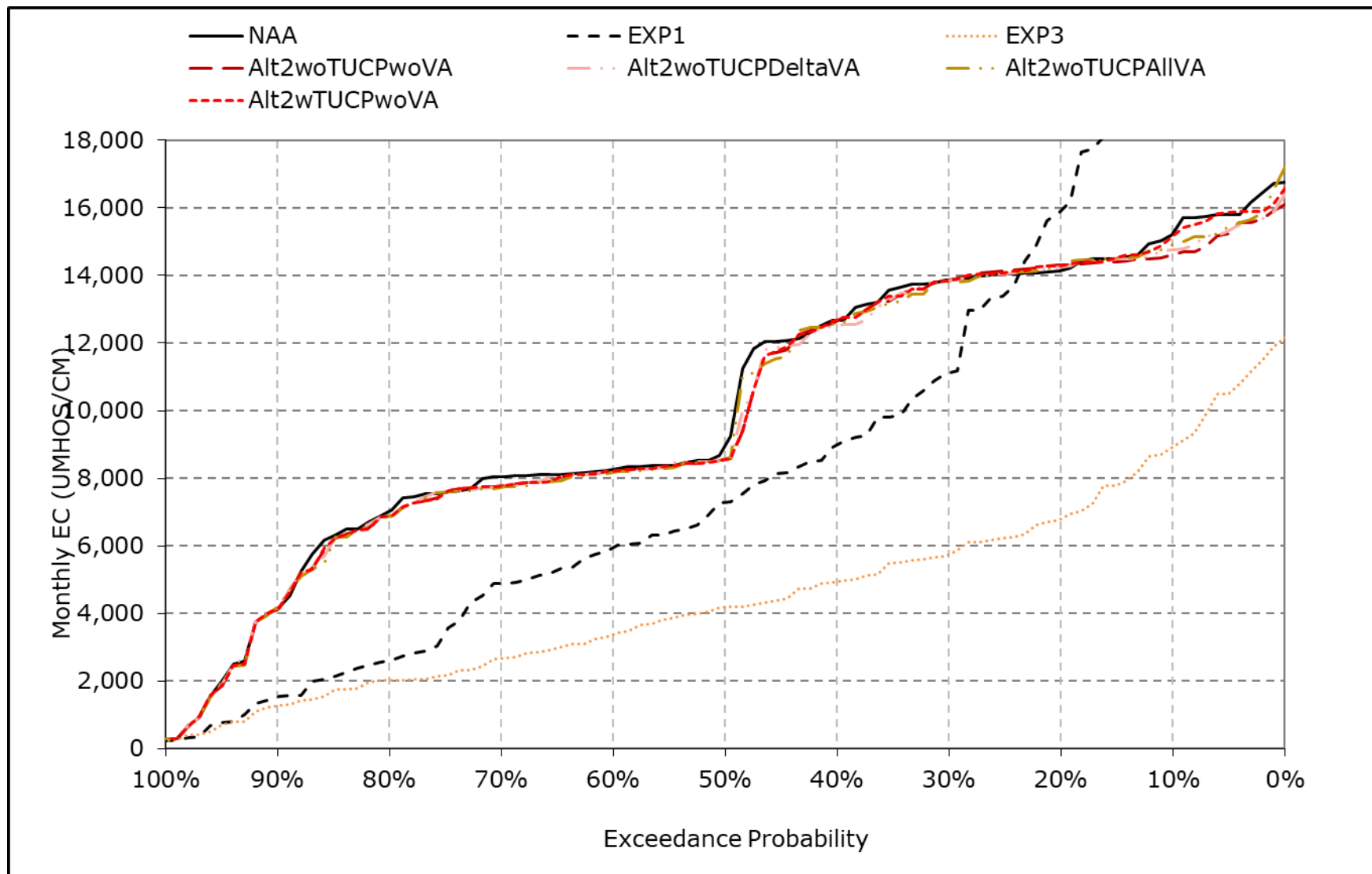
**Figure F.2.5-14-16. Chipps Island South Channel Salinity, October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

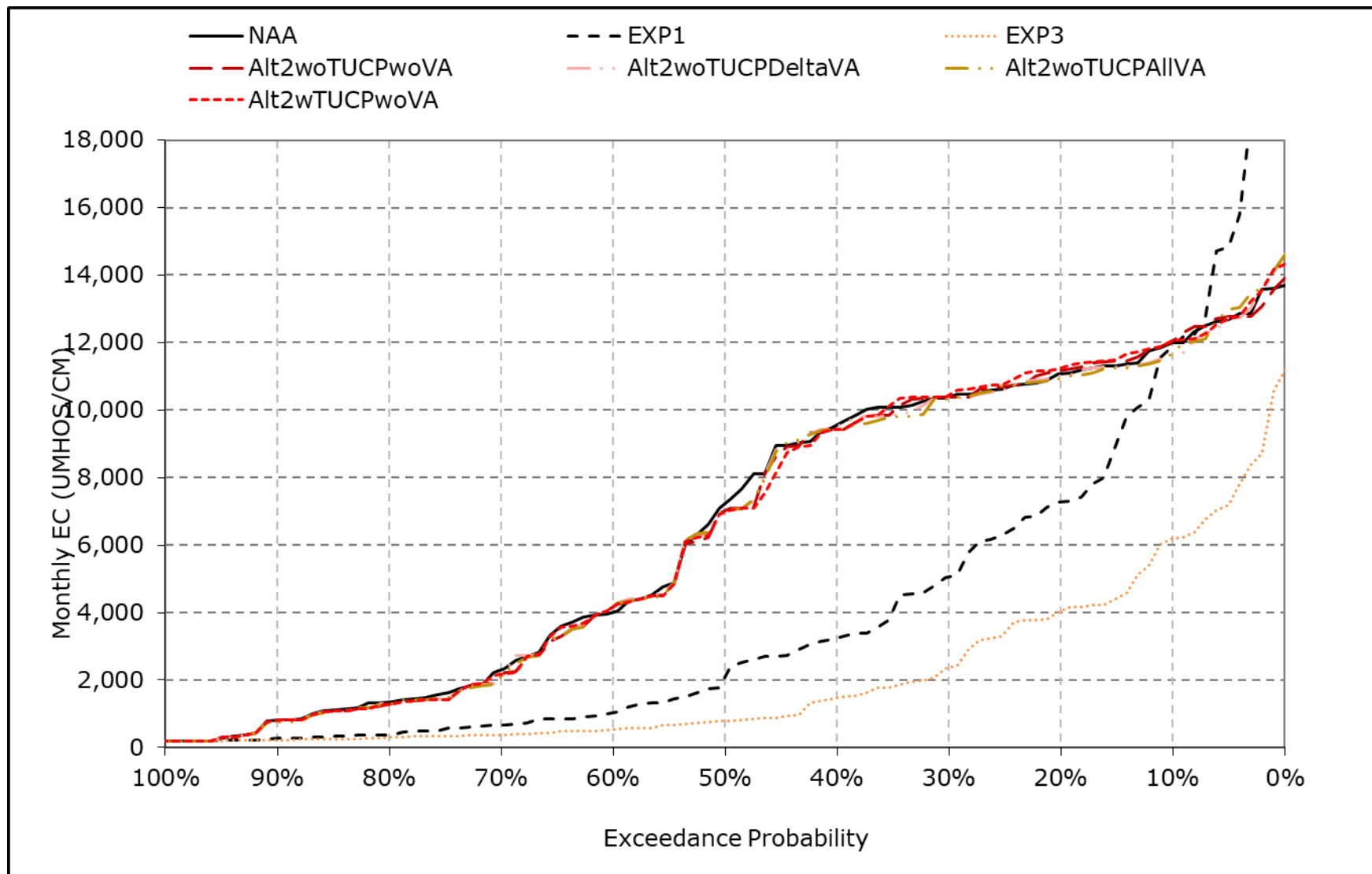


**Figure F.2.5-14-17. Chipps Island South Channel Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-14-18. Chipps Island South Channel Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-15-1a. Sacramento River at Port Chicago Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,353 | 20,119 | 17,165 | 14,851 | 10,193 | 9,502 | 11,250 | 14,045 | 16,854 | 18,670 | 20,285 | 21,076 |
| 20% Exceedance                              | 20,375 | 19,336 | 16,481 | 13,860 | 7,490  | 6,813 | 9,069  | 9,805  | 11,986 | 14,673 | 17,628 | 20,067 |
| 30% Exceedance                              | 19,957 | 18,935 | 16,005 | 10,143 | 4,423  | 3,974 | 6,417  | 9,162  | 11,469 | 14,386 | 17,051 | 19,701 |
| 40% Exceedance                              | 19,463 | 17,919 | 15,077 | 6,672  | 3,385  | 3,312 | 5,095  | 8,367  | 10,944 | 13,864 | 16,746 | 19,190 |
| 50% Exceedance                              | 18,623 | 14,595 | 12,165 | 4,764  | 2,155  | 2,484 | 3,837  | 6,736  | 10,264 | 12,267 | 14,886 | 18,017 |
| 60% Exceedance                              | 10,692 | 14,333 | 8,466  | 3,165  | 1,331  | 1,504 | 2,861  | 5,225  | 9,820  | 10,820 | 13,351 | 11,331 |
| 70% Exceedance                              | 10,488 | 13,946 | 4,994  | 1,488  | 752    | 926   | 2,026  | 3,940  | 9,027  | 10,068 | 12,867 | 11,012 |
| 80% Exceedance                              | 10,357 | 13,006 | 3,100  | 831    | 434    | 561   | 1,122  | 2,286  | 7,136  | 9,751  | 12,483 | 10,820 |
| 90% Exceedance                              | 10,133 | 9,245  | 1,440  | 383    | 239    | 313   | 788    | 1,362  | 5,303  | 9,041  | 11,959 | 10,579 |
| Full Simulation Period Average <sup>a</sup> | 15,423 | 15,329 | 10,473 | 6,424  | 3,766  | 3,578 | 5,018  | 7,012  | 10,225 | 12,681 | 15,334 | 15,852 |
| Wet Water Years (28%)                       | 9,982  | 11,469 | 9,117  | 1,208  | 572    | 883   | 1,458  | 2,915  | 6,518  | 9,338  | 12,411 | 10,622 |
| Above Normal Years (14%)                    | 10,042 | 12,877 | 10,122 | 3,586  | 1,211  | 1,168 | 2,380  | 4,790  | 8,526  | 9,783  | 12,244 | 10,598 |
| Below Normal Years (18%)                    | 18,312 | 17,243 | 8,813  | 6,123  | 4,049  | 3,261 | 4,549  | 6,401  | 10,172 | 12,296 | 15,218 | 18,213 |
| Dry Water Years (24%)                       | 19,206 | 16,806 | 10,858 | 10,465 | 5,395  | 4,748 | 6,226  | 8,358  | 11,208 | 14,378 | 17,270 | 19,676 |
| Critical Water Years (16%)                  | 21,442 | 20,328 | 14,733 | 12,313 | 8,830  | 9,006 | 12,275 | 14,796 | 16,787 | 18,957 | 20,382 | 21,209 |

**Table F.2.5-15-1b. Sacramento River at Port Chicago Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,637 | 19,607 | 17,197 | 14,786 | 9,423 | 8,221 | 10,124 | 12,008 | 13,665 | 16,132 | 19,043 | 21,086 |
| 20% Exceedance                              | 20,501 | 19,413 | 16,480 | 12,250 | 7,291 | 6,302 | 8,069  | 10,049 | 12,038 | 14,839 | 17,749 | 20,158 |
| 30% Exceedance                              | 20,008 | 18,923 | 16,038 | 9,396  | 4,470 | 3,960 | 6,330  | 9,685  | 11,694 | 14,405 | 17,463 | 19,822 |
| 40% Exceedance                              | 19,484 | 17,768 | 14,974 | 6,985  | 3,249 | 3,234 | 5,368  | 9,294  | 11,011 | 13,814 | 16,725 | 19,522 |
| 50% Exceedance                              | 18,421 | 14,534 | 11,854 | 5,029  | 2,122 | 2,424 | 4,190  | 7,643  | 10,356 | 12,412 | 15,212 | 18,541 |
| 60% Exceedance                              | 10,640 | 14,162 | 8,414  | 3,041  | 1,311 | 1,504 | 2,986  | 5,872  | 9,894  | 10,888 | 13,485 | 11,391 |
| 70% Exceedance                              | 10,457 | 13,702 | 5,017  | 1,482  | 736   | 931   | 2,075  | 4,279  | 9,139  | 10,369 | 13,104 | 11,072 |
| 80% Exceedance                              | 10,302 | 12,741 | 3,021  | 799    | 442   | 562   | 1,205  | 2,358  | 7,138  | 9,942  | 12,728 | 10,978 |
| 90% Exceedance                              | 9,799  | 9,192  | 1,368  | 382    | 238   | 316   | 794    | 1,503  | 5,348  | 9,276  | 12,442 | 10,851 |
| Full Simulation Period Average <sup>a</sup> | 15,467 | 15,146 | 10,408 | 6,276  | 3,638 | 3,438 | 4,825  | 7,102  | 10,071 | 12,528 | 15,369 | 16,021 |
| Wet Water Years (28%)                       | 10,011 | 11,434 | 9,142  | 1,142  | 574   | 897   | 1,592  | 3,229  | 6,563  | 9,455  | 12,676 | 10,780 |
| Above Normal Years (14%)                    | 9,832  | 12,600 | 10,138 | 3,569  | 1,211 | 1,186 | 2,606  | 5,329  | 8,533  | 10,084 | 12,708 | 10,887 |
| Below Normal Years (18%)                    | 18,351 | 16,917 | 8,648  | 6,211  | 3,956 | 3,213 | 4,755  | 7,114  | 10,333 | 12,392 | 15,341 | 18,462 |
| Dry Water Years (24%)                       | 19,301 | 16,830 | 10,837 | 10,026 | 5,086 | 4,710 | 6,383  | 8,710  | 11,391 | 14,501 | 17,498 | 19,885 |
| Critical Water Years (16%)                  | 21,692 | 19,805 | 14,466 | 12,080 | 8,592 | 8,199 | 10,165 | 13,002 | 15,283 | 17,238 | 19,248 | 21,144 |

**Table F.2.5-15-1c. Sacramento River at Port Chicago Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 284  | -512 | 32   | -65    | -770 | -1,281 | -1,126 | -2,036 | -3,189 | -2,539 | -1,243 | 9   |
| 20% Exceedance                              | 126  | 76   | 0    | -1,611 | -200 | -511   | -1,000 | 244    | 52     | 166    | 121    | 91  |
| 30% Exceedance                              | 52   | -11  | 32   | -747   | 47   | -15    | -87    | 522    | 226    | 20     | 413    | 121 |
| 40% Exceedance                              | 21   | -151 | -103 | 313    | -137 | -78    | 273    | 927    | 68     | -49    | -21    | 332 |
| 50% Exceedance                              | -202 | -61  | -311 | 265    | -33  | -60    | 353    | 907    | 93     | 145    | 326    | 524 |
| 60% Exceedance                              | -52  | -171 | -51  | -124   | -20  | 0      | 124    | 648    | 74     | 68     | 134    | 60  |
| 70% Exceedance                              | -32  | -244 | 23   | -6     | -16  | 5      | 50     | 339    | 112    | 301    | 237    | 60  |
| 80% Exceedance                              | -55  | -265 | -80  | -33    | 8    | 1      | 83     | 72     | 2      | 191    | 245    | 158 |
| 90% Exceedance                              | -333 | -53  | -72  | 0      | -1   | 3      | 5      | 142    | 45     | 235    | 482    | 272 |
| Full Simulation Period Average <sup>a</sup> | 44   | -183 | -65  | -148   | -129 | -141   | -194   | 89     | -154   | -153   | 35     | 169 |
| Wet Water Years (28%)                       | 29   | -35  | 26   | -66    | 2    | 14     | 135    | 314    | 45     | 118    | 265    | 158 |
| Above Normal Years (14%)                    | -210 | -277 | 15   | -17    | 0    | 18     | 226    | 540    | 7      | 302    | 464    | 289 |
| Below Normal Years (18%)                    | 39   | -326 | -165 | 88     | -94  | -48    | 206    | 713    | 161    | 96     | 123    | 249 |
| Dry Water Years (24%)                       | 95   | 24   | -22  | -439   | -309 | -38    | 157    | 353    | 183    | 122    | 228    | 209 |
| Critical Water Years (16%)                  | 250  | -523 | -267 | -233   | -238 | -807   | -2,111 | -1,794 | -1,504 | -1,719 | -1,134 | -66 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-15-2a. Sacramento River at Port Chicago Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,353 | 20,119 | 17,165 | 14,851 | 10,193 | 9,502 | 11,250 | 14,045 | 16,854 | 18,670 | 20,285 | 21,076 |
| 20% Exceedance                              | 20,375 | 19,336 | 16,481 | 13,860 | 7,490  | 6,813 | 9,069  | 9,805  | 11,986 | 14,673 | 17,628 | 20,067 |
| 30% Exceedance                              | 19,957 | 18,935 | 16,005 | 10,143 | 4,423  | 3,974 | 6,417  | 9,162  | 11,469 | 14,386 | 17,051 | 19,701 |
| 40% Exceedance                              | 19,463 | 17,919 | 15,077 | 6,672  | 3,385  | 3,312 | 5,095  | 8,367  | 10,944 | 13,864 | 16,746 | 19,190 |
| 50% Exceedance                              | 18,623 | 14,595 | 12,165 | 4,764  | 2,155  | 2,484 | 3,837  | 6,736  | 10,264 | 12,267 | 14,886 | 18,017 |
| 60% Exceedance                              | 10,692 | 14,333 | 8,466  | 3,165  | 1,331  | 1,504 | 2,861  | 5,225  | 9,820  | 10,820 | 13,351 | 11,331 |
| 70% Exceedance                              | 10,488 | 13,946 | 4,994  | 1,488  | 752    | 926   | 2,026  | 3,940  | 9,027  | 10,068 | 12,867 | 11,012 |
| 80% Exceedance                              | 10,357 | 13,006 | 3,100  | 831    | 434    | 561   | 1,122  | 2,286  | 7,136  | 9,751  | 12,483 | 10,820 |
| 90% Exceedance                              | 10,133 | 9,245  | 1,440  | 383    | 239    | 313   | 788    | 1,362  | 5,303  | 9,041  | 11,959 | 10,579 |
| Full Simulation Period Average <sup>a</sup> | 15,423 | 15,329 | 10,473 | 6,424  | 3,766  | 3,578 | 5,018  | 7,012  | 10,225 | 12,681 | 15,334 | 15,852 |
| Wet Water Years (28%)                       | 9,982  | 11,469 | 9,117  | 1,208  | 572    | 883   | 1,458  | 2,915  | 6,518  | 9,338  | 12,411 | 10,622 |
| Above Normal Years (14%)                    | 10,042 | 12,877 | 10,122 | 3,586  | 1,211  | 1,168 | 2,380  | 4,790  | 8,526  | 9,783  | 12,244 | 10,598 |
| Below Normal Years (18%)                    | 18,312 | 17,243 | 8,813  | 6,123  | 4,049  | 3,261 | 4,549  | 6,401  | 10,172 | 12,296 | 15,218 | 18,213 |
| Dry Water Years (24%)                       | 19,206 | 16,806 | 10,858 | 10,465 | 5,395  | 4,748 | 6,226  | 8,358  | 11,208 | 14,378 | 17,270 | 19,676 |
| Critical Water Years (16%)                  | 21,442 | 20,328 | 14,733 | 12,313 | 8,830  | 9,006 | 12,275 | 14,796 | 16,787 | 18,957 | 20,382 | 21,209 |

**Table F.2.5-15-2b. Sacramento River at Port Chicago Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,731 | 19,753 | 16,999 | 14,728 | 10,050 | 7,802 | 9,557  | 12,049 | 13,658 | 16,121 | 19,042 | 21,085 |
| 20% Exceedance                              | 20,434 | 19,387 | 16,408 | 12,358 | 7,422  | 5,815 | 7,576  | 10,006 | 12,199 | 14,838 | 17,718 | 20,132 |
| 30% Exceedance                              | 19,990 | 18,757 | 16,030 | 9,440  | 4,495  | 3,831 | 6,162  | 9,674  | 11,772 | 14,402 | 17,462 | 19,865 |
| 40% Exceedance                              | 19,396 | 17,743 | 15,033 | 6,870  | 3,224  | 3,101 | 4,804  | 8,711  | 10,970 | 13,833 | 16,722 | 19,357 |
| 50% Exceedance                              | 18,713 | 14,568 | 11,854 | 4,918  | 2,126  | 2,306 | 3,886  | 7,308  | 10,311 | 12,415 | 15,164 | 18,495 |
| 60% Exceedance                              | 10,638 | 14,165 | 8,430  | 3,042  | 1,316  | 1,443 | 2,785  | 5,845  | 9,869  | 10,870 | 13,495 | 11,378 |
| 70% Exceedance                              | 10,472 | 13,704 | 5,014  | 1,490  | 752    | 923   | 1,926  | 4,256  | 9,174  | 10,275 | 13,101 | 11,064 |
| 80% Exceedance                              | 10,322 | 12,737 | 3,040  | 799    | 442    | 570   | 1,161  | 2,306  | 7,149  | 9,912  | 12,692 | 10,951 |
| 90% Exceedance                              | 9,804  | 9,245  | 1,389  | 382    | 239    | 316   | 731    | 1,513  | 5,380  | 9,100  | 12,358 | 10,830 |
| Full Simulation Period Average <sup>a</sup> | 15,467 | 15,162 | 10,408 | 6,326  | 3,700  | 3,283 | 4,595  | 7,004  | 10,095 | 12,508 | 15,342 | 16,006 |
| Wet Water Years (28%)                       | 10,016 | 11,445 | 9,139  | 1,174  | 577    | 884   | 1,533  | 3,219  | 6,591  | 9,414  | 12,647 | 10,768 |
| Above Normal Years (14%)                    | 9,833  | 12,606 | 10,063 | 3,570  | 1,215  | 1,149 | 2,228  | 5,017  | 8,592  | 10,006 | 12,611 | 10,861 |
| Below Normal Years (18%)                    | 18,319 | 16,889 | 8,687  | 6,232  | 3,991  | 2,867 | 4,377  | 7,057  | 10,393 | 12,407 | 15,311 | 18,421 |
| Dry Water Years (24%)                       | 19,297 | 16,846 | 10,796 | 10,119 | 5,144  | 4,362 | 5,998  | 8,532  | 11,376 | 14,506 | 17,498 | 19,879 |
| Critical Water Years (16%)                  | 21,728 | 19,890 | 14,567 | 12,173 | 8,849  | 8,200 | 10,161 | 13,013 | 15,286 | 17,230 | 19,250 | 21,147 |

**Table F.2.5-15-2c. Sacramento River at Port Chicago Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 378  | -366 | -166 | -122   | -143 | -1,699 | -1,693 | -1,996 | -3,196 | -2,549 | -1,243 | 9   |
| 20% Exceedance                              | 59   | 51   | -72  | -1,502 | -68  | -998   | -1,492 | 201    | 213    | 165    | 90     | 65  |
| 30% Exceedance                              | 33   | -178 | 25   | -703   | 72   | -144   | -256   | 512    | 303    | 17     | 411    | 165 |
| 40% Exceedance                              | -67  | -176 | -44  | 198    | -161 | -211   | -291   | 344    | 27     | -31    | -24    | 167 |
| 50% Exceedance                              | 89   | -27  | -310 | 155    | -29  | -178   | 48     | 571    | 47     | 149    | 278    | 478 |
| 60% Exceedance                              | -55  | -168 | -36  | -123   | -14  | -62    | -77    | 621    | 49     | 49     | 144    | 47  |
| 70% Exceedance                              | -16  | -243 | 20   | 1      | 0    | -3     | -99    | 316    | 147    | 207    | 234    | 52  |
| 80% Exceedance                              | -35  | -269 | -60  | -32    | 7    | 8      | 39     | 20     | 12     | 161    | 209    | 132 |
| 90% Exceedance                              | -328 | 0    | -50  | -1     | 0    | 3      | -57    | 151    | 77     | 59     | 398    | 250 |
| Full Simulation Period Average <sup>a</sup> | 44   | -167 | -65  | -97    | -66  | -295   | -424   | -8     | -130   | -173   | 8      | 154 |
| Wet Water Years (28%)                       | 34   | -24  | 23   | -33    | 5    | 1      | 76     | 303    | 73     | 77     | 235    | 146 |
| Above Normal Years (14%)                    | -210 | -270 | -59  | -16    | 4    | -20    | -152   | 228    | 67     | 223    | 366    | 263 |
| Below Normal Years (18%)                    | 7    | -354 | -126 | 109    | -59  | -394   | -172   | 656    | 221    | 111    | 94     | 208 |
| Dry Water Years (24%)                       | 91   | 40   | -63  | -346   | -251 | -386   | -228   | 175    | 168    | 127    | 228    | 202 |
| Critical Water Years (16%)                  | 287  | -438 | -167 | -140   | 19   | -806   | -2,114 | -1,783 | -1,501 | -1,727 | -1,132 | -62 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-15-3a. Sacramento River at Port Chicago Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,353 | 20,119 | 17,165 | 14,851 | 10,193 | 9,502 | 11,250 | 14,045 | 16,854 | 18,670 | 20,285 | 21,076 |
| 20% Exceedance                              | 20,375 | 19,336 | 16,481 | 13,860 | 7,490  | 6,813 | 9,069  | 9,805  | 11,986 | 14,673 | 17,628 | 20,067 |
| 30% Exceedance                              | 19,957 | 18,935 | 16,005 | 10,143 | 4,423  | 3,974 | 6,417  | 9,162  | 11,469 | 14,386 | 17,051 | 19,701 |
| 40% Exceedance                              | 19,463 | 17,919 | 15,077 | 6,672  | 3,385  | 3,312 | 5,095  | 8,367  | 10,944 | 13,864 | 16,746 | 19,190 |
| 50% Exceedance                              | 18,623 | 14,595 | 12,165 | 4,764  | 2,155  | 2,484 | 3,837  | 6,736  | 10,264 | 12,267 | 14,886 | 18,017 |
| 60% Exceedance                              | 10,692 | 14,333 | 8,466  | 3,165  | 1,331  | 1,504 | 2,861  | 5,225  | 9,820  | 10,820 | 13,351 | 11,331 |
| 70% Exceedance                              | 10,488 | 13,946 | 4,994  | 1,488  | 752    | 926   | 2,026  | 3,940  | 9,027  | 10,068 | 12,867 | 11,012 |
| 80% Exceedance                              | 10,357 | 13,006 | 3,100  | 831    | 434    | 561   | 1,122  | 2,286  | 7,136  | 9,751  | 12,483 | 10,820 |
| 90% Exceedance                              | 10,133 | 9,245  | 1,440  | 383    | 239    | 313   | 788    | 1,362  | 5,303  | 9,041  | 11,959 | 10,579 |
| Full Simulation Period Average <sup>a</sup> | 15,423 | 15,329 | 10,473 | 6,424  | 3,766  | 3,578 | 5,018  | 7,012  | 10,225 | 12,681 | 15,334 | 15,852 |
| Wet Water Years (28%)                       | 9,982  | 11,469 | 9,117  | 1,208  | 572    | 883   | 1,458  | 2,915  | 6,518  | 9,338  | 12,411 | 10,622 |
| Above Normal Years (14%)                    | 10,042 | 12,877 | 10,122 | 3,586  | 1,211  | 1,168 | 2,380  | 4,790  | 8,526  | 9,783  | 12,244 | 10,598 |
| Below Normal Years (18%)                    | 18,312 | 17,243 | 8,813  | 6,123  | 4,049  | 3,261 | 4,549  | 6,401  | 10,172 | 12,296 | 15,218 | 18,213 |
| Dry Water Years (24%)                       | 19,206 | 16,806 | 10,858 | 10,465 | 5,395  | 4,748 | 6,226  | 8,358  | 11,208 | 14,378 | 17,270 | 19,676 |
| Critical Water Years (16%)                  | 21,442 | 20,328 | 14,733 | 12,313 | 8,830  | 9,006 | 12,275 | 14,796 | 16,787 | 18,957 | 20,382 | 21,209 |

**Table F.2.5-15-3b. Sacramento River at Port Chicago Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,709 | 19,892 | 17,011 | 14,708 | 10,041 | 7,585 | 9,262 | 11,698 | 13,095 | 16,153 | 19,020 | 21,037 |
| 20% Exceedance                              | 20,394 | 19,379 | 16,347 | 12,628 | 7,472  | 5,691 | 7,213 | 9,391  | 11,982 | 14,808 | 17,697 | 20,122 |
| 30% Exceedance                              | 19,911 | 18,939 | 15,966 | 9,471  | 4,485  | 3,867 | 5,516 | 8,921  | 11,676 | 14,497 | 17,520 | 19,856 |
| 40% Exceedance                              | 19,399 | 17,825 | 14,946 | 6,847  | 3,217  | 3,041 | 4,256 | 7,772  | 10,746 | 13,872 | 16,710 | 19,368 |
| 50% Exceedance                              | 18,717 | 14,569 | 11,835 | 5,046  | 2,131  | 2,283 | 3,439 | 6,310  | 10,268 | 12,463 | 15,100 | 18,427 |
| 60% Exceedance                              | 10,640 | 14,141 | 8,419  | 3,067  | 1,310  | 1,445 | 2,596 | 4,896  | 9,855  | 10,772 | 13,491 | 11,378 |
| 70% Exceedance                              | 10,474 | 13,702 | 5,006  | 1,497  | 755    | 922   | 1,797 | 4,026  | 9,061  | 10,213 | 13,099 | 11,063 |
| 80% Exceedance                              | 10,325 | 12,741 | 3,059  | 799    | 441    | 578   | 1,093 | 2,168  | 7,181  | 9,841  | 12,636 | 10,959 |
| 90% Exceedance                              | 9,830  | 9,317  | 1,286  | 382    | 239    | 317   | 732   | 1,503  | 5,380  | 9,054  | 12,251 | 10,835 |
| Full Simulation Period Average <sup>a</sup> | 15,447 | 15,162 | 10,381 | 6,322  | 3,726  | 3,258 | 4,234 | 6,466  | 9,917  | 12,487 | 15,299 | 15,980 |
| Wet Water Years (28%)                       | 10,009 | 11,451 | 9,139  | 1,181  | 577    | 887   | 1,514 | 3,165  | 6,586  | 9,402  | 12,622 | 10,764 |
| Above Normal Years (14%)                    | 9,847  | 12,596 | 10,045 | 3,541  | 1,214  | 1,149 | 2,024 | 4,449  | 8,435  | 9,945  | 12,495 | 10,862 |
| Below Normal Years (18%)                    | 18,291 | 16,935 | 8,615  | 6,163  | 3,988  | 2,849 | 3,693 | 6,149  | 10,211 | 12,421 | 15,247 | 18,324 |
| Dry Water Years (24%)                       | 19,258 | 16,700 | 10,717 | 10,029 | 5,174  | 4,302 | 5,378 | 7,790  | 11,136 | 14,534 | 17,502 | 19,869 |
| Critical Water Years (16%)                  | 21,686 | 20,070 | 14,614 | 12,370 | 8,969  | 8,145 | 9,822 | 12,380 | 14,881 | 17,111 | 19,192 | 21,117 |

**Table F.2.5-15-3c. Sacramento River at Port Chicago Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar    | Apr    | May    | Jun    | Jul    | Aug    | Sep |
|---------------------------------------------|------|------|------|--------|------|--------|--------|--------|--------|--------|--------|-----|
| 10% Exceedance                              | 356  | -228 | -154 | -143   | -152 | -1,917 | -1,988 | -2,346 | -3,759 | -2,517 | -1,265 | -39 |
| 20% Exceedance                              | 19   | 43   | -134 | -1,233 | -18  | -1,122 | -1,856 | -414   | -4     | 135    | 70     | 55  |
| 30% Exceedance                              | -46  | 5    | -39  | -672   | 62   | -107   | -901   | -242   | 207    | 112    | 469    | 155 |
| 40% Exceedance                              | -64  | -94  | -131 | 175    | -168 | -271   | -839   | -595   | -198   | 8      | -37    | 177 |
| 50% Exceedance                              | 94   | -26  | -329 | 282    | -23  | -201   | -398   | -426   | 4      | 196    | 214    | 410 |
| 60% Exceedance                              | -53  | -192 | -46  | -98    | -21  | -59    | -265   | -328   | 35     | -48    | 140    | 47  |
| 70% Exceedance                              | -14  | -244 | 12   | 9      | 3    | -4     | -229   | 86     | 34     | 144    | 233    | 51  |
| 80% Exceedance                              | -32  | -266 | -41  | -32    | 6    | 17     | -29    | -119   | 45     | 90     | 154    | 140 |
| 90% Exceedance                              | -303 | 73   | -153 | -1     | 0    | 5      | -57    | 141    | 77     | 13     | 292    | 255 |
| Full Simulation Period Average <sup>a</sup> | 24   | -167 | -93  | -102   | -40  | -321   | -784   | -546   | -309   | -195   | -35    | 128 |
| Wet Water Years (28%)                       | 28   | -18  | 22   | -27    | 5    | 4      | 56     | 249    | 68     | 64     | 210    | 142 |
| Above Normal Years (14%)                    | -195 | -281 | -78  | -45    | 3    | -19    | -356   | -341   | -90    | 162    | 251    | 264 |
| Below Normal Years (18%)                    | -21  | -308 | -198 | 41     | -61  | -412   | -855   | -252   | 39     | 126    | 29     | 111 |
| Dry Water Years (24%)                       | 52   | -107 | -141 | -436   | -221 | -446   | -848   | -568   | -72    | 156    | 232    | 193 |
| Critical Water Years (16%)                  | 244  | -258 | -119 | 57     | 140  | -862   | -2,454 | -2,416 | -1,906 | -1,847 | -1,189 | -92 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-15-4a. Sacramento River at Port Chicago Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,353 | 20,119 | 17,165 | 14,851 | 10,193 | 9,502 | 11,250 | 14,045 | 16,854 | 18,670 | 20,285 | 21,076 |
| 20% Exceedance                              | 20,375 | 19,336 | 16,481 | 13,860 | 7,490  | 6,813 | 9,069  | 9,805  | 11,986 | 14,673 | 17,628 | 20,067 |
| 30% Exceedance                              | 19,957 | 18,935 | 16,005 | 10,143 | 4,423  | 3,974 | 6,417  | 9,162  | 11,469 | 14,386 | 17,051 | 19,701 |
| 40% Exceedance                              | 19,463 | 17,919 | 15,077 | 6,672  | 3,385  | 3,312 | 5,095  | 8,367  | 10,944 | 13,864 | 16,746 | 19,190 |
| 50% Exceedance                              | 18,623 | 14,595 | 12,165 | 4,764  | 2,155  | 2,484 | 3,837  | 6,736  | 10,264 | 12,267 | 14,886 | 18,017 |
| 60% Exceedance                              | 10,692 | 14,333 | 8,466  | 3,165  | 1,331  | 1,504 | 2,861  | 5,225  | 9,820  | 10,820 | 13,351 | 11,331 |
| 70% Exceedance                              | 10,488 | 13,946 | 4,994  | 1,488  | 752    | 926   | 2,026  | 3,940  | 9,027  | 10,068 | 12,867 | 11,012 |
| 80% Exceedance                              | 10,357 | 13,006 | 3,100  | 831    | 434    | 561   | 1,122  | 2,286  | 7,136  | 9,751  | 12,483 | 10,820 |
| 90% Exceedance                              | 10,133 | 9,245  | 1,440  | 383    | 239    | 313   | 788    | 1,362  | 5,303  | 9,041  | 11,959 | 10,579 |
| Full Simulation Period Average <sup>a</sup> | 15,423 | 15,329 | 10,473 | 6,424  | 3,766  | 3,578 | 5,018  | 7,012  | 10,225 | 12,681 | 15,334 | 15,852 |
| Wet Water Years (28%)                       | 9,982  | 11,469 | 9,117  | 1,208  | 572    | 883   | 1,458  | 2,915  | 6,518  | 9,338  | 12,411 | 10,622 |
| Above Normal Years (14%)                    | 10,042 | 12,877 | 10,122 | 3,586  | 1,211  | 1,168 | 2,380  | 4,790  | 8,526  | 9,783  | 12,244 | 10,598 |
| Below Normal Years (18%)                    | 18,312 | 17,243 | 8,813  | 6,123  | 4,049  | 3,261 | 4,549  | 6,401  | 10,172 | 12,296 | 15,218 | 18,213 |
| Dry Water Years (24%)                       | 19,206 | 16,806 | 10,858 | 10,465 | 5,395  | 4,748 | 6,226  | 8,358  | 11,208 | 14,378 | 17,270 | 19,676 |
| Critical Water Years (16%)                  | 21,442 | 20,328 | 14,733 | 12,313 | 8,830  | 9,006 | 12,275 | 14,796 | 16,787 | 18,957 | 20,382 | 21,209 |

**Table F.2.5-15-4b. Sacramento River at Port Chicago Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,336 | 20,041 | 17,206 | 14,497 | 9,421 | 9,573 | 10,834 | 13,611 | 17,249 | 19,020 | 20,464 | 21,047 |
| 20% Exceedance                              | 20,497 | 19,428 | 16,657 | 12,421 | 7,290 | 6,897 | 9,119  | 10,049 | 12,191 | 14,916 | 17,749 | 20,156 |
| 30% Exceedance                              | 19,982 | 18,874 | 16,100 | 10,116 | 4,350 | 3,958 | 6,523  | 9,619  | 11,718 | 14,405 | 17,463 | 19,820 |
| 40% Exceedance                              | 19,484 | 17,784 | 14,873 | 6,690  | 3,286 | 3,236 | 5,367  | 9,072  | 11,126 | 13,648 | 16,673 | 19,433 |
| 50% Exceedance                              | 18,353 | 14,535 | 11,842 | 4,790  | 2,122 | 2,436 | 4,189  | 7,643  | 10,356 | 12,418 | 15,216 | 18,499 |
| 60% Exceedance                              | 10,641 | 14,161 | 8,412  | 3,044  | 1,310 | 1,498 | 2,989  | 5,872  | 9,894  | 10,888 | 13,485 | 11,391 |
| 70% Exceedance                              | 10,459 | 13,701 | 5,017  | 1,484  | 736   | 931   | 2,072  | 4,278  | 9,138  | 10,371 | 13,104 | 11,078 |
| 80% Exceedance                              | 10,302 | 12,737 | 3,030  | 798    | 441   | 561   | 1,200  | 2,357  | 7,137  | 9,942  | 12,733 | 10,979 |
| 90% Exceedance                              | 9,803  | 9,235  | 1,359  | 382    | 238   | 316   | 793    | 1,503  | 5,318  | 9,276  | 12,441 | 10,851 |
| Full Simulation Period Average <sup>a</sup> | 15,424 | 15,208 | 10,427 | 6,199  | 3,622 | 3,580 | 5,142  | 7,358  | 10,282 | 12,777 | 15,529 | 16,016 |
| Wet Water Years (28%)                       | 10,011 | 11,434 | 9,139  | 1,141  | 574   | 897   | 1,592  | 3,228  | 6,561  | 9,456  | 12,678 | 10,781 |
| Above Normal Years (14%)                    | 9,832  | 12,598 | 10,139 | 3,560  | 1,206 | 1,170 | 2,601  | 5,326  | 8,530  | 10,087 | 12,710 | 10,887 |
| Below Normal Years (18%)                    | 18,304 | 16,916 | 8,687  | 6,130  | 3,924 | 3,200 | 4,754  | 7,114  | 10,329 | 12,370 | 15,304 | 18,390 |
| Dry Water Years (24%)                       | 19,298 | 16,820 | 10,899 | 10,113 | 5,091 | 4,711 | 6,383  | 8,706  | 11,388 | 14,501 | 17,496 | 19,883 |
| Critical Water Years (16%)                  | 21,466 | 20,235 | 14,452 | 11,568 | 8,528 | 9,120 | 12,151 | 14,618 | 16,615 | 18,814 | 20,287 | 21,197 |

**Table F.2.5-15-4c. Sacramento River at Port Chicago Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan    | Feb  | Mar | Apr  | May  | Jun  | Jul  | Aug | Sep |
|---------------------------------------------|------|------|------|--------|------|-----|------|------|------|------|-----|-----|
| 10% Exceedance                              | -16  | -79  | 42   | -353   | -772 | 71  | -415 | -433 | 395  | 349  | 178 | -29 |
| 20% Exceedance                              | 122  | 92   | 176  | -1,439 | -201 | 83  | 50   | 244  | 205  | 243  | 121 | 89  |
| 30% Exceedance                              | 26   | -61  | 94   | -26    | -73  | -16 | 106  | 456  | 249  | 20   | 412 | 119 |
| 40% Exceedance                              | 21   | -136 | -203 | 18     | -100 | -76 | 272  | 705  | 183  | -216 | -73 | 243 |
| 50% Exceedance                              | -271 | -60  | -322 | 27     | -33  | -48 | 352  | 907  | 93   | 151  | 330 | 482 |
| 60% Exceedance                              | -52  | -173 | -54  | -121   | -20  | -7  | 128  | 647  | 74   | 68   | 135 | 60  |
| 70% Exceedance                              | -29  | -245 | 23   | -4     | -16  | 5   | 46   | 338  | 112  | 303  | 237 | 66  |
| 80% Exceedance                              | -55  | -270 | -70  | -33    | 6    | 0   | 78   | 71   | 0    | 191  | 251 | 160 |
| 90% Exceedance                              | -330 | -9   | -80  | 0      | -1   | 3   | 5    | 142  | 15   | 235  | 482 | 271 |
| Full Simulation Period Average <sup>a</sup> | 1    | -121 | -46  | -225   | -144 | 2   | 123  | 346  | 57   | 95   | 194 | 164 |
| Wet Water Years (28%)                       | 30   | -35  | 22   | -67    | 2    | 13  | 134  | 313  | 44   | 118  | 266 | 159 |
| Above Normal Years (14%)                    | -210 | -278 | 16   | -26    | -6   | 2   | 221  | 537  | 5    | 304  | 466 | 289 |
| Below Normal Years (18%)                    | -9   | -327 | -127 | 8      | -125 | -61 | 205  | 713  | 157  | 74   | 86  | 177 |
| Dry Water Years (24%)                       | 93   | 13   | 41   | -352   | -304 | -37 | 157  | 348  | 180  | 122  | 225 | 207 |
| Critical Water Years (16%)                  | 24   | -93  | -281 | -745   | -302 | 113 | -124 | -177 | -172 | -144 | -94 | -13 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-15-5a. Sacramento River at Port Chicago Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,353 | 20,119 | 17,165 | 14,851 | 10,193 | 9,502 | 11,250 | 14,045 | 16,854 | 18,670 | 20,285 | 21,076 |
| 20% Exceedance                              | 20,375 | 19,336 | 16,481 | 13,860 | 7,490  | 6,813 | 9,069  | 9,805  | 11,986 | 14,673 | 17,628 | 20,067 |
| 30% Exceedance                              | 19,957 | 18,935 | 16,005 | 10,143 | 4,423  | 3,974 | 6,417  | 9,162  | 11,469 | 14,386 | 17,051 | 19,701 |
| 40% Exceedance                              | 19,463 | 17,919 | 15,077 | 6,672  | 3,385  | 3,312 | 5,095  | 8,367  | 10,944 | 13,864 | 16,746 | 19,190 |
| 50% Exceedance                              | 18,623 | 14,595 | 12,165 | 4,764  | 2,155  | 2,484 | 3,837  | 6,736  | 10,264 | 12,267 | 14,886 | 18,017 |
| 60% Exceedance                              | 10,692 | 14,333 | 8,466  | 3,165  | 1,331  | 1,504 | 2,861  | 5,225  | 9,820  | 10,820 | 13,351 | 11,331 |
| 70% Exceedance                              | 10,488 | 13,946 | 4,994  | 1,488  | 752    | 926   | 2,026  | 3,940  | 9,027  | 10,068 | 12,867 | 11,012 |
| 80% Exceedance                              | 10,357 | 13,006 | 3,100  | 831    | 434    | 561   | 1,122  | 2,286  | 7,136  | 9,751  | 12,483 | 10,820 |
| 90% Exceedance                              | 10,133 | 9,245  | 1,440  | 383    | 239    | 313   | 788    | 1,362  | 5,303  | 9,041  | 11,959 | 10,579 |
| Full Simulation Period Average <sup>a</sup> | 15,423 | 15,329 | 10,473 | 6,424  | 3,766  | 3,578 | 5,018  | 7,012  | 10,225 | 12,681 | 15,334 | 15,852 |
| Wet Water Years (28%)                       | 9,982  | 11,469 | 9,117  | 1,208  | 572    | 883   | 1,458  | 2,915  | 6,518  | 9,338  | 12,411 | 10,622 |
| Above Normal Years (14%)                    | 10,042 | 12,877 | 10,122 | 3,586  | 1,211  | 1,168 | 2,380  | 4,790  | 8,526  | 9,783  | 12,244 | 10,598 |
| Below Normal Years (18%)                    | 18,312 | 17,243 | 8,813  | 6,123  | 4,049  | 3,261 | 4,549  | 6,401  | 10,172 | 12,296 | 15,218 | 18,213 |
| Dry Water Years (24%)                       | 19,206 | 16,806 | 10,858 | 10,465 | 5,395  | 4,748 | 6,226  | 8,358  | 11,208 | 14,378 | 17,270 | 19,676 |
| Critical Water Years (16%)                  | 21,442 | 20,328 | 14,733 | 12,313 | 8,830  | 9,006 | 12,275 | 14,796 | 16,787 | 18,957 | 20,382 | 21,209 |

**Table F.2.5-15-5b. Sacramento River at Port Chicago Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 16,530 | 14,753 | 11,337 | 7,178 | 5,373 | 6,098 | 9,489 | 11,880 | 15,664 | 17,949 | 19,368 | 18,540 |
| 20% Exceedance                              | 14,843 | 12,801 | 9,111  | 5,738 | 4,198 | 4,019 | 7,231 | 10,647 | 14,857 | 16,976 | 18,150 | 16,832 |
| 30% Exceedance                              | 13,857 | 11,342 | 6,544  | 4,321 | 2,432 | 2,418 | 5,772 | 9,408  | 14,022 | 16,416 | 17,958 | 16,160 |
| 40% Exceedance                              | 12,515 | 10,322 | 4,577  | 2,596 | 1,818 | 1,933 | 4,625 | 7,110  | 12,586 | 15,254 | 16,642 | 15,365 |
| 50% Exceedance                              | 11,806 | 9,271  | 2,936  | 2,015 | 1,279 | 1,321 | 3,227 | 5,745  | 10,667 | 13,316 | 15,909 | 14,523 |
| 60% Exceedance                              | 10,909 | 8,211  | 2,095  | 1,333 | 684   | 1,024 | 2,034 | 4,137  | 9,398  | 12,240 | 14,801 | 13,595 |
| 70% Exceedance                              | 10,099 | 7,099  | 1,418  | 985   | 593   | 759   | 1,414 | 3,045  | 7,130  | 11,009 | 13,977 | 12,467 |
| 80% Exceedance                              | 9,346  | 5,819  | 936    | 562   | 338   | 486   | 969   | 1,754  | 4,699  | 9,260  | 12,838 | 11,192 |
| 90% Exceedance                              | 8,375  | 3,954  | 447    | 320   | 241   | 292   | 658   | 1,016  | 2,586  | 7,976  | 11,383 | 9,203  |
| Full Simulation Period Average <sup>a</sup> | 11,908 | 9,278  | 4,670  | 3,236 | 2,232 | 2,332 | 4,178 | 6,317  | 10,027 | 13,261 | 15,518 | 14,112 |
| Wet Water Years (28%)                       | 9,242  | 6,308  | 2,293  | 685   | 458   | 669   | 1,184 | 2,182  | 4,908  | 8,802  | 11,836 | 10,482 |
| Above Normal Years (14%)                    | 10,660 | 8,427  | 3,053  | 1,390 | 739   | 845   | 2,077 | 3,961  | 7,887  | 11,028 | 13,788 | 12,923 |
| Below Normal Years (18%)                    | 11,688 | 9,196  | 4,356  | 2,443 | 2,141 | 1,883 | 3,746 | 6,356  | 10,748 | 13,580 | 15,655 | 14,102 |
| Dry Water Years (24%)                       | 12,995 | 9,827  | 6,087  | 4,985 | 2,957 | 2,852 | 5,411 | 8,453  | 12,916 | 15,935 | 17,737 | 16,063 |
| Critical Water Years (16%)                  | 16,656 | 14,893 | 8,834  | 7,582 | 5,659 | 6,267 | 9,890 | 12,367 | 15,709 | 18,649 | 19,994 | 18,589 |

**Table F.2.5-15-5c. Sacramento River at Port Chicago Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec     | Jan    | Feb    | Mar    | Apr    | May    | Jun    | Jul    | Aug   | Sep    |
|---------------------------------------------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| 10% Exceedance                              | -4,822 | -5,367 | -5,828  | -7,673 | -4,820 | -3,404 | -1,761 | -2,164 | -1,190 | -721   | -918  | -2,537 |
| 20% Exceedance                              | -5,532 | -6,535 | -7,370  | -8,123 | -3,292 | -2,795 | -1,838 | 842    | 2,872  | 2,303  | 522   | -3,235 |
| 30% Exceedance                              | -6,099 | -7,593 | -9,461  | -5,821 | -1,992 | -1,557 | -645   | 245    | 2,554  | 2,031  | 907   | -3,541 |
| 40% Exceedance                              | -6,947 | -7,597 | -10,499 | -4,076 | -1,568 | -1,379 | -471   | -1,257 | 1,642  | 1,390  | -104  | -3,826 |
| 50% Exceedance                              | -6,818 | -5,324 | -9,228  | -2,749 | -875   | -1,163 | -610   | -991   | 403    | 1,049  | 1,023 | -3,494 |
| 60% Exceedance                              | 217    | -6,122 | -6,371  | -1,833 | -647   | -480   | -827   | -1,087 | -422   | 1,420  | 1,451 | 2,264  |
| 70% Exceedance                              | -389   | -6,847 | -3,576  | -503   | -159   | -167   | -612   | -895   | -1,897 | 941    | 1,111 | 1,455  |
| 80% Exceedance                              | -1,011 | -7,188 | -2,164  | -269   | -96    | -75    | -153   | -533   | -2,437 | -491   | 356   | 373    |
| 90% Exceedance                              | -1,758 | -5,291 | -993    | -63    | 2      | -21    | -130   | -346   | -2,717 | -1,065 | -576  | -1,377 |
| Full Simulation Period Average <sup>a</sup> | -3,515 | -6,051 | -5,803  | -3,188 | -1,534 | -1,247 | -841   | -695   | -199   | 580    | 184   | -1,740 |
| Wet Water Years (28%)                       | -740   | -5,161 | -6,823  | -523   | -114   | -215   | -274   | -733   | -1,610 | -535   | -576  | -140   |
| Above Normal Years (14%)                    | 618    | -4,450 | -7,069  | -2,196 | -472   | -323   | -304   | -829   | -639   | 1,245  | 1,543 | 2,325  |
| Below Normal Years (18%)                    | -6,624 | -8,047 | -4,457  | -3,680 | -1,908 | -1,378 | -803   | -45    | 576    | 1,285  | 437   | -4,111 |
| Dry Water Years (24%)                       | -6,211 | -6,980 | -4,771  | -5,480 | -2,439 | -1,896 | -815   | 95     | 1,708  | 1,557  | 467   | -3,613 |
| Critical Water Years (16%)                  | -4,786 | -5,435 | -5,900  | -4,731 | -3,171 | -2,739 | -2,386 | -2,429 | -1,078 | -308   | -388  | -2,621 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-15-6a. Sacramento River at Port Chicago Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 26,405 | 25,306 | 17,792 | 8,105 | 4,750 | 4,227 | 6,533 | 12,873 | 20,111 | 24,991 | 27,425 | 27,451 |
| <b>20% Exceedance</b>                             | 25,306 | 21,882 | 12,865 | 6,100 | 3,416 | 2,715 | 4,046 | 9,740  | 17,776 | 23,975 | 26,931 | 26,786 |
| <b>30% Exceedance</b>                             | 23,184 | 17,057 | 9,812  | 4,814 | 1,699 | 1,556 | 3,380 | 7,472  | 15,487 | 23,188 | 26,552 | 26,214 |
| <b>40% Exceedance</b>                             | 20,324 | 15,020 | 7,211  | 2,414 | 1,401 | 1,307 | 2,403 | 5,913  | 13,619 | 21,488 | 25,809 | 25,521 |
| <b>50% Exceedance</b>                             | 17,866 | 13,045 | 4,825  | 1,904 | 1,035 | 941   | 1,573 | 4,102  | 11,670 | 20,341 | 25,244 | 24,204 |
| <b>60% Exceedance</b>                             | 14,867 | 11,381 | 3,311  | 1,338 | 659   | 774   | 1,173 | 2,877  | 9,386  | 18,252 | 24,357 | 22,141 |
| <b>70% Exceedance</b>                             | 12,965 | 10,120 | 2,074  | 908   | 500   | 586   | 882   | 2,024  | 6,696  | 15,868 | 22,504 | 18,630 |
| <b>80% Exceedance</b>                             | 11,623 | 6,607  | 1,165  | 456   | 333   | 369   | 660   | 1,244  | 4,113  | 13,079 | 19,028 | 16,921 |
| <b>90% Exceedance</b>                             | 9,826  | 4,198  | 628    | 315   | 245   | 293   | 447   | 792    | 2,194  | 10,034 | 16,451 | 14,073 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 17,894 | 13,883 | 7,206  | 3,633 | 1,967 | 1,683 | 2,793 | 5,672  | 11,319 | 18,628 | 23,367 | 21,935 |
| <b>Wet Water Years (28%)</b>                      | 11,805 | 8,770  | 5,029  | 631   | 410   | 516   | 758   | 1,729  | 4,749  | 12,189 | 18,287 | 15,536 |
| <b>Above Normal Years (14%)</b>                   | 14,842 | 11,242 | 5,199  | 1,411 | 617   | 626   | 1,240 | 2,872  | 7,962  | 16,775 | 22,561 | 20,257 |
| <b>Below Normal Years (18%)</b>                   | 18,676 | 13,392 | 6,081  | 2,974 | 1,818 | 1,301 | 2,079 | 5,568  | 12,198 | 19,930 | 24,818 | 23,319 |
| <b>Dry Water Years (24%)</b>                      | 20,852 | 15,316 | 8,817  | 4,900 | 2,290 | 1,961 | 3,213 | 7,063  | 14,731 | 22,156 | 26,099 | 25,633 |
| <b>Critical Water Years (16%)</b>                 | 26,639 | 24,367 | 12,051 | 9,670 | 5,557 | 4,660 | 7,886 | 13,050 | 19,645 | 24,764 | 27,232 | 27,501 |

**Table F.2.5-15-6b. Sacramento River at Port Chicago Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 21,637 | 19,607 | 17,197 | 14,786 | 9,423 | 8,221 | 10,124 | 12,008 | 13,665 | 16,132 | 19,043 | 21,086 |
| <b>20% Exceedance</b>                             | 20,501 | 19,413 | 16,480 | 12,250 | 7,291 | 6,302 | 8,069  | 10,049 | 12,038 | 14,839 | 17,749 | 20,158 |
| <b>30% Exceedance</b>                             | 20,008 | 18,923 | 16,038 | 9,396  | 4,470 | 3,960 | 6,330  | 9,685  | 11,694 | 14,405 | 17,463 | 19,822 |
| <b>40% Exceedance</b>                             | 19,484 | 17,768 | 14,974 | 6,985  | 3,249 | 3,234 | 5,368  | 9,294  | 11,011 | 13,814 | 16,725 | 19,522 |
| <b>50% Exceedance</b>                             | 18,421 | 14,534 | 11,854 | 5,029  | 2,122 | 2,424 | 4,190  | 7,643  | 10,356 | 12,412 | 15,212 | 18,541 |
| <b>60% Exceedance</b>                             | 10,640 | 14,162 | 8,414  | 3,041  | 1,311 | 1,504 | 2,986  | 5,872  | 9,894  | 10,888 | 13,485 | 11,391 |
| <b>70% Exceedance</b>                             | 10,457 | 13,702 | 5,017  | 1,482  | 736   | 931   | 2,075  | 4,279  | 9,139  | 10,369 | 13,104 | 11,072 |
| <b>80% Exceedance</b>                             | 10,302 | 12,741 | 3,021  | 799    | 442   | 562   | 1,205  | 2,358  | 7,138  | 9,942  | 12,728 | 10,978 |
| <b>90% Exceedance</b>                             | 9,799  | 9,192  | 1,368  | 382    | 238   | 316   | 794    | 1,503  | 5,348  | 9,276  | 12,442 | 10,851 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 15,467 | 15,146 | 10,408 | 6,276  | 3,638 | 3,438 | 4,825  | 7,102  | 10,071 | 12,528 | 15,369 | 16,021 |
| <b>Wet Water Years (28%)</b>                      | 10,011 | 11,434 | 9,142  | 1,142  | 574   | 897   | 1,592  | 3,229  | 6,563  | 9,455  | 12,676 | 10,780 |
| <b>Above Normal Years (14%)</b>                   | 9,832  | 12,600 | 10,138 | 3,569  | 1,211 | 1,186 | 2,606  | 5,329  | 8,533  | 10,084 | 12,708 | 10,887 |
| <b>Below Normal Years (18%)</b>                   | 18,351 | 16,917 | 8,648  | 6,211  | 3,956 | 3,213 | 4,755  | 7,114  | 10,333 | 12,392 | 15,341 | 18,462 |
| <b>Dry Water Years (24%)</b>                      | 19,301 | 16,830 | 10,837 | 10,026 | 5,086 | 4,710 | 6,383  | 8,710  | 11,391 | 14,501 | 17,498 | 19,885 |
| <b>Critical Water Years (16%)</b>                 | 21,692 | 19,805 | 14,466 | 12,080 | 8,592 | 8,199 | 10,165 | 13,002 | 15,283 | 17,238 | 19,248 | 21,144 |

**Table F.2.5-15-6c. Sacramento River at Port Chicago Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug     | Sep     |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|
| <b>10% Exceedance</b>                             | -4,769 | -5,699 | -595  | 6,681 | 4,674 | 3,994 | 3,591 | -865  | -6,446 | -8,860 | -8,383  | -6,365  |
| <b>20% Exceedance</b>                             | -4,805 | -2,469 | 3,615 | 6,150 | 3,875 | 3,588 | 4,023 | 308   | -5,738 | -9,136 | -9,182  | -6,628  |
| <b>30% Exceedance</b>                             | -3,176 | 1,867  | 6,226 | 4,581 | 2,772 | 2,403 | 2,950 | 2,213 | -3,793 | -8,783 | -9,088  | -6,392  |
| <b>40% Exceedance</b>                             | -840   | 2,748  | 7,763 | 4,571 | 1,847 | 1,927 | 2,965 | 3,381 | -2,607 | -7,674 | -9,084  | -5,999  |
| <b>50% Exceedance</b>                             | 555    | 1,489  | 7,029 | 3,125 | 1,087 | 1,483 | 2,617 | 3,542 | -1,313 | -7,929 | -10,032 | -5,663  |
| <b>60% Exceedance</b>                             | -4,226 | 2,781  | 5,103 | 1,703 | 652   | 731   | 1,813 | 2,995 | 507    | -7,364 | -10,872 | -10,750 |
| <b>70% Exceedance</b>                             | -2,508 | 3,582  | 2,943 | 574   | 236   | 346   | 1,193 | 2,255 | 2,443  | -5,500 | -9,400  | -7,558  |
| <b>80% Exceedance</b>                             | -1,321 | 6,134  | 1,856 | 342   | 109   | 193   | 545   | 1,114 | 3,026  | -3,136 | -6,301  | -5,944  |
| <b>90% Exceedance</b>                             | -26    | 4,994  | 740   | 67    | -7    | 23    | 347   | 711   | 3,155  | -758   | -4,009  | -3,222  |
| <b>Full Simulation Period Average<sup>a</sup></b> | -2,427 | 1,263  | 3,201 | 2,644 | 1,671 | 1,755 | 2,032 | 1,430 | -1,248 | -6,100 | -7,998  | -5,914  |
| <b>Wet Water Years (28%)</b>                      | -1,794 | 2,664  | 4,114 | 511   | 164   | 381   | 834   | 1,500 | 1,813  | -2,734 | -5,611  | -4,756  |
| <b>Above Normal Years (14%)</b>                   | -5,010 | 1,358  | 4,938 | 2,158 | 595   | 560   | 1,366 | 2,458 | 571    | -6,691 | -9,852  | -9,370  |
| <b>Below Normal Years (18%)</b>                   | -325   | 3,525  | 2,567 | 3,237 | 2,137 | 1,912 | 2,676 | 1,546 | -1,865 | -7,538 | -9,477  | -4,857  |
| <b>Dry Water Years (24%)</b>                      | -1,551 | 1,514  | 2,019 | 5,126 | 2,796 | 2,749 | 3,169 | 1,647 | -3,340 | -7,655 | -8,601  | -5,747  |
| <b>Critical Water Years (16%)</b>                 | -4,947 | -4,562 | 2,415 | 2,410 | 3,035 | 3,539 | 2,278 | -48   | -4,361 | -7,526 | -7,984  | -6,357  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-15-7a. Sacramento River at Port Chicago Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 26,405 | 25,306 | 17,792 | 8,105 | 4,750 | 4,227 | 6,533 | 12,873 | 20,111 | 24,991 | 27,425 | 27,451 |
| 20% Exceedance                              | 25,306 | 21,882 | 12,865 | 6,100 | 3,416 | 2,715 | 4,046 | 9,740  | 17,776 | 23,975 | 26,931 | 26,786 |
| 30% Exceedance                              | 23,184 | 17,057 | 9,812  | 4,814 | 1,699 | 1,556 | 3,380 | 7,472  | 15,487 | 23,188 | 26,552 | 26,214 |
| 40% Exceedance                              | 20,324 | 15,020 | 7,211  | 2,414 | 1,401 | 1,307 | 2,403 | 5,913  | 13,619 | 21,488 | 25,809 | 25,521 |
| 50% Exceedance                              | 17,866 | 13,045 | 4,825  | 1,904 | 1,035 | 941   | 1,573 | 4,102  | 11,670 | 20,341 | 25,244 | 24,204 |
| 60% Exceedance                              | 14,867 | 11,381 | 3,311  | 1,338 | 659   | 774   | 1,173 | 2,877  | 9,386  | 18,252 | 24,357 | 22,141 |
| 70% Exceedance                              | 12,965 | 10,120 | 2,074  | 908   | 500   | 586   | 882   | 2,024  | 6,696  | 15,868 | 22,504 | 18,630 |
| 80% Exceedance                              | 11,623 | 6,607  | 1,165  | 456   | 333   | 369   | 660   | 1,244  | 4,113  | 13,079 | 19,028 | 16,921 |
| 90% Exceedance                              | 9,826  | 4,198  | 628    | 315   | 245   | 293   | 447   | 792    | 2,194  | 10,034 | 16,451 | 14,073 |
| Full Simulation Period Average <sup>a</sup> | 17,894 | 13,883 | 7,206  | 3,633 | 1,967 | 1,683 | 2,793 | 5,672  | 11,319 | 18,628 | 23,367 | 21,935 |
| Wet Water Years (28%)                       | 11,805 | 8,770  | 5,029  | 631   | 410   | 516   | 758   | 1,729  | 4,749  | 12,189 | 18,287 | 15,536 |
| Above Normal Years (14%)                    | 14,842 | 11,242 | 5,199  | 1,411 | 617   | 626   | 1,240 | 2,872  | 7,962  | 16,775 | 22,561 | 20,257 |
| Below Normal Years (18%)                    | 18,676 | 13,392 | 6,081  | 2,974 | 1,818 | 1,301 | 2,079 | 5,568  | 12,198 | 19,930 | 24,818 | 23,319 |
| Dry Water Years (24%)                       | 20,852 | 15,316 | 8,817  | 4,900 | 2,290 | 1,961 | 3,213 | 7,063  | 14,731 | 22,156 | 26,099 | 25,633 |
| Critical Water Years (16%)                  | 26,639 | 24,367 | 12,051 | 9,670 | 5,557 | 4,660 | 7,886 | 13,050 | 19,645 | 24,764 | 27,232 | 27,501 |

**Table F.2.5-15-7b. Sacramento River at Port Chicago Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,731 | 19,753 | 16,999 | 14,728 | 10,050 | 7,802 | 9,557  | 12,049 | 13,658 | 16,121 | 19,042 | 21,085 |
| 20% Exceedance                              | 20,434 | 19,387 | 16,408 | 12,358 | 7,422  | 5,815 | 7,576  | 10,006 | 12,199 | 14,838 | 17,718 | 20,132 |
| 30% Exceedance                              | 19,990 | 18,757 | 16,030 | 9,440  | 4,495  | 3,831 | 6,162  | 9,674  | 11,772 | 14,402 | 17,462 | 19,865 |
| 40% Exceedance                              | 19,396 | 17,743 | 15,033 | 6,870  | 3,224  | 3,101 | 4,804  | 8,711  | 10,970 | 13,833 | 16,722 | 19,357 |
| 50% Exceedance                              | 18,713 | 14,568 | 11,854 | 4,918  | 2,126  | 2,306 | 3,886  | 7,308  | 10,311 | 12,415 | 15,164 | 18,495 |
| 60% Exceedance                              | 10,638 | 14,165 | 8,430  | 3,042  | 1,316  | 1,443 | 2,785  | 5,845  | 9,869  | 10,870 | 13,495 | 11,378 |
| 70% Exceedance                              | 10,472 | 13,704 | 5,014  | 1,490  | 752    | 923   | 1,926  | 4,256  | 9,174  | 10,275 | 13,101 | 11,064 |
| 80% Exceedance                              | 10,322 | 12,737 | 3,040  | 799    | 442    | 570   | 1,161  | 2,306  | 7,149  | 9,912  | 12,692 | 10,951 |
| 90% Exceedance                              | 9,804  | 9,245  | 1,389  | 382    | 239    | 316   | 731    | 1,513  | 5,380  | 9,100  | 12,358 | 10,830 |
| Full Simulation Period Average <sup>a</sup> | 15,467 | 15,162 | 10,408 | 6,326  | 3,700  | 3,283 | 4,595  | 7,004  | 10,095 | 12,508 | 15,342 | 16,006 |
| Wet Water Years (28%)                       | 10,016 | 11,445 | 9,139  | 1,174  | 577    | 884   | 1,533  | 3,219  | 6,591  | 9,414  | 12,647 | 10,768 |
| Above Normal Years (14%)                    | 9,833  | 12,606 | 10,063 | 3,570  | 1,215  | 1,149 | 2,228  | 5,017  | 8,592  | 10,006 | 12,611 | 10,861 |
| Below Normal Years (18%)                    | 18,319 | 16,889 | 8,687  | 6,232  | 3,991  | 2,867 | 4,377  | 7,057  | 10,393 | 12,407 | 15,311 | 18,421 |
| Dry Water Years (24%)                       | 19,297 | 16,846 | 10,796 | 10,119 | 5,144  | 4,362 | 5,998  | 8,532  | 11,376 | 14,506 | 17,498 | 19,879 |
| Critical Water Years (16%)                  | 21,728 | 19,890 | 14,567 | 12,173 | 8,849  | 8,200 | 10,161 | 13,013 | 15,286 | 17,230 | 19,250 | 21,147 |

**Table F.2.5-15-7c. Sacramento River at Port Chicago Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|
| 10% Exceedance                              | -4,675 | -5,553 | -793  | 6,623 | 5,300 | 3,575 | 3,024 | -825  | -6,453 | -8,870 | -8,383  | -6,366  |
| 20% Exceedance                              | -4,872 | -2,495 | 3,543 | 6,259 | 4,006 | 3,100 | 3,531 | 265   | -5,577 | -9,137 | -9,213  | -6,654  |
| 30% Exceedance                              | -3,195 | 1,700  | 6,218 | 4,626 | 2,797 | 2,274 | 2,782 | 2,202 | -3,716 | -8,786 | -9,090  | -6,349  |
| 40% Exceedance                              | -928   | 2,723  | 7,822 | 4,457 | 1,822 | 1,794 | 2,401 | 2,798 | -2,648 | -7,655 | -9,087  | -6,164  |
| 50% Exceedance                              | 847    | 1,523  | 7,030 | 3,015 | 1,091 | 1,365 | 2,312 | 3,206 | -1,359 | -7,926 | -10,080 | -5,708  |
| 60% Exceedance                              | -4,229 | 2,784  | 5,119 | 1,704 | 658   | 669   | 1,612 | 2,968 | 483    | -7,382 | -10,862 | -10,763 |
| 70% Exceedance                              | -2,493 | 3,584  | 2,940 | 582   | 253   | 338   | 1,044 | 2,232 | 2,478  | -5,593 | -9,404  | -7,566  |
| 80% Exceedance                              | -1,301 | 6,130  | 1,875 | 343   | 109   | 201   | 500   | 1,062 | 3,036  | -3,166 | -6,336  | -5,970  |
| 90% Exceedance                              | -21    | 5,047  | 761   | 67    | -7    | 23    | 284   | 720   | 3,187  | -934   | -4,093  | -3,243  |
| Full Simulation Period Average <sup>a</sup> | -2,426 | 1,279  | 3,202 | 2,694 | 1,733 | 1,601 | 1,801 | 1,332 | -1,224 | -6,120 | -8,025  | -5,929  |
| Wet Water Years (28%)                       | -1,789 | 2,675  | 4,110 | 543   | 167   | 368   | 775   | 1,489 | 1,842  | -2,775 | -5,640  | -4,767  |
| Above Normal Years (14%)                    | -5,009 | 1,364  | 4,864 | 2,159 | 599   | 522   | 988   | 2,146 | 630    | -6,769 | -9,950  | -9,396  |
| Below Normal Years (18%)                    | -357   | 3,497  | 2,605 | 3,258 | 2,172 | 1,566 | 2,298 | 1,489 | -1,805 | -7,523 | -9,506  | -4,898  |
| Dry Water Years (24%)                       | -1,555 | 1,530  | 1,978 | 5,219 | 2,854 | 2,401 | 2,785 | 1,469 | -3,356 | -7,650 | -8,601  | -5,754  |
| Critical Water Years (16%)                  | -4,910 | -4,477 | 2,515 | 2,502 | 3,292 | 3,540 | 2,275 | -37   | -4,359 | -7,534 | -7,982  | -6,354  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-15-8a. Sacramento River at Port Chicago Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 26,405 | 25,306 | 17,792 | 8,105 | 4,750 | 4,227 | 6,533 | 12,873 | 20,111 | 24,991 | 27,425 | 27,451 |
| 20% Exceedance                              | 25,306 | 21,882 | 12,865 | 6,100 | 3,416 | 2,715 | 4,046 | 9,740  | 17,776 | 23,975 | 26,931 | 26,786 |
| 30% Exceedance                              | 23,184 | 17,057 | 9,812  | 4,814 | 1,699 | 1,556 | 3,380 | 7,472  | 15,487 | 23,188 | 26,552 | 26,214 |
| 40% Exceedance                              | 20,324 | 15,020 | 7,211  | 2,414 | 1,401 | 1,307 | 2,403 | 5,913  | 13,619 | 21,488 | 25,809 | 25,521 |
| 50% Exceedance                              | 17,866 | 13,045 | 4,825  | 1,904 | 1,035 | 941   | 1,573 | 4,102  | 11,670 | 20,341 | 25,244 | 24,204 |
| 60% Exceedance                              | 14,867 | 11,381 | 3,311  | 1,338 | 659   | 774   | 1,173 | 2,877  | 9,386  | 18,252 | 24,357 | 22,141 |
| 70% Exceedance                              | 12,965 | 10,120 | 2,074  | 908   | 500   | 586   | 882   | 2,024  | 6,696  | 15,868 | 22,504 | 18,630 |
| 80% Exceedance                              | 11,623 | 6,607  | 1,165  | 456   | 333   | 369   | 660   | 1,244  | 4,113  | 13,079 | 19,028 | 16,921 |
| 90% Exceedance                              | 9,826  | 4,198  | 628    | 315   | 245   | 293   | 447   | 792    | 2,194  | 10,034 | 16,451 | 14,073 |
| Full Simulation Period Average <sup>a</sup> | 17,894 | 13,883 | 7,206  | 3,633 | 1,967 | 1,683 | 2,793 | 5,672  | 11,319 | 18,628 | 23,367 | 21,935 |
| Wet Water Years (28%)                       | 11,805 | 8,770  | 5,029  | 631   | 410   | 516   | 758   | 1,729  | 4,749  | 12,189 | 18,287 | 15,536 |
| Above Normal Years (14%)                    | 14,842 | 11,242 | 5,199  | 1,411 | 617   | 626   | 1,240 | 2,872  | 7,962  | 16,775 | 22,561 | 20,257 |
| Below Normal Years (18%)                    | 18,676 | 13,392 | 6,081  | 2,974 | 1,818 | 1,301 | 2,079 | 5,568  | 12,198 | 19,930 | 24,818 | 23,319 |
| Dry Water Years (24%)                       | 20,852 | 15,316 | 8,817  | 4,900 | 2,290 | 1,961 | 3,213 | 7,063  | 14,731 | 22,156 | 26,099 | 25,633 |
| Critical Water Years (16%)                  | 26,639 | 24,367 | 12,051 | 9,670 | 5,557 | 4,660 | 7,886 | 13,050 | 19,645 | 24,764 | 27,232 | 27,501 |

**Table F.2.5-15-8b. Sacramento River at Port Chicago Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,709 | 19,892 | 17,011 | 14,708 | 10,041 | 7,585 | 9,262 | 11,698 | 13,095 | 16,153 | 19,020 | 21,037 |
| 20% Exceedance                              | 20,394 | 19,379 | 16,347 | 12,628 | 7,472  | 5,691 | 7,213 | 9,391  | 11,982 | 14,808 | 17,697 | 20,122 |
| 30% Exceedance                              | 19,911 | 18,939 | 15,966 | 9,471  | 4,485  | 3,867 | 5,516 | 8,921  | 11,676 | 14,497 | 17,520 | 19,856 |
| 40% Exceedance                              | 19,399 | 17,825 | 14,946 | 6,847  | 3,217  | 3,041 | 4,256 | 7,772  | 10,746 | 13,872 | 16,710 | 19,368 |
| 50% Exceedance                              | 18,717 | 14,569 | 11,835 | 5,046  | 2,131  | 2,283 | 3,439 | 6,310  | 10,268 | 12,463 | 15,100 | 18,427 |
| 60% Exceedance                              | 10,640 | 14,141 | 8,419  | 3,067  | 1,310  | 1,445 | 2,596 | 4,896  | 9,855  | 10,772 | 13,491 | 11,378 |
| 70% Exceedance                              | 10,474 | 13,702 | 5,006  | 1,497  | 755    | 922   | 1,797 | 4,026  | 9,061  | 10,213 | 13,099 | 11,063 |
| 80% Exceedance                              | 10,325 | 12,741 | 3,059  | 799    | 441    | 578   | 1,093 | 2,168  | 7,181  | 9,841  | 12,636 | 10,959 |
| 90% Exceedance                              | 9,830  | 9,317  | 1,286  | 382    | 239    | 317   | 732   | 1,503  | 5,380  | 9,054  | 12,251 | 10,835 |
| Full Simulation Period Average <sup>a</sup> | 15,447 | 15,162 | 10,381 | 6,322  | 3,726  | 3,258 | 4,234 | 6,466  | 9,917  | 12,487 | 15,299 | 15,980 |
| Wet Water Years (28%)                       | 10,009 | 11,451 | 9,139  | 1,181  | 577    | 887   | 1,514 | 3,165  | 6,586  | 9,402  | 12,622 | 10,764 |
| Above Normal Years (14%)                    | 9,847  | 12,596 | 10,045 | 3,541  | 1,214  | 1,149 | 2,024 | 4,449  | 8,435  | 9,945  | 12,495 | 10,862 |
| Below Normal Years (18%)                    | 18,291 | 16,935 | 8,615  | 6,163  | 3,988  | 2,849 | 3,693 | 6,149  | 10,211 | 12,421 | 15,247 | 18,324 |
| Dry Water Years (24%)                       | 19,258 | 16,700 | 10,717 | 10,029 | 5,174  | 4,302 | 5,378 | 7,790  | 11,136 | 14,534 | 17,502 | 19,869 |
| Critical Water Years (16%)                  | 21,686 | 20,070 | 14,614 | 12,370 | 8,969  | 8,145 | 9,822 | 12,380 | 14,881 | 17,111 | 19,192 | 21,117 |

**Table F.2.5-15-8c. Sacramento River at Port Chicago Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|---------|---------|
| 10% Exceedance                              | -4,697 | -5,414 | -781  | 6,603 | 5,291 | 3,358 | 2,729 | -1,175 | -7,016 | -8,838 | -8,405  | -6,413  |
| 20% Exceedance                              | -4,912 | -2,503 | 3,482 | 6,528 | 4,056 | 2,977 | 3,167 | -349   | -5,794 | -9,167 | -9,233  | -6,664  |
| 30% Exceedance                              | -3,273 | 1,883  | 6,154 | 4,657 | 2,787 | 2,311 | 2,137 | 1,449  | -3,812 | -8,691 | -9,032  | -6,358  |
| 40% Exceedance                              | -925   | 2,805  | 7,735 | 4,433 | 1,816 | 1,734 | 1,853 | 1,859  | -2,873 | -7,617 | -9,100  | -6,153  |
| 50% Exceedance                              | 851    | 1,524  | 7,010 | 3,142 | 1,096 | 1,342 | 1,866 | 2,208  | -1,402 | -7,878 | -10,144 | -5,777  |
| 60% Exceedance                              | -4,227 | 2,760  | 5,108 | 1,729 | 651   | 672   | 1,423 | 2,019  | 468    | -7,479 | -10,866 | -10,763 |
| 70% Exceedance                              | -2,491 | 3,582  | 2,932 | 589   | 256   | 337   | 914   | 2,002  | 2,365  | -5,656 | -9,405  | -7,566  |
| 80% Exceedance                              | -1,298 | 6,134  | 1,894 | 343   | 107   | 209   | 432   | 924    | 3,068  | -3,238 | -6,392  | -5,962  |
| 90% Exceedance                              | 4      | 5,119  | 658   | 66    | -7    | 25    | 285   | 710    | 3,186  | -980   | -4,200  | -3,238  |
| Full Simulation Period Average <sup>a</sup> | -2,447 | 1,279  | 3,174 | 2,689 | 1,759 | 1,575 | 1,441 | 795    | -1,402 | -6,142 | -8,068  | -5,955  |
| Wet Water Years (28%)                       | -1,796 | 2,681  | 4,110 | 549   | 167   | 371   | 756   | 1,435  | 1,836  | -2,787 | -5,665  | -4,771  |
| Above Normal Years (14%)                    | -4,995 | 1,354  | 4,846 | 2,130 | 597   | 523   | 784   | 1,577  | 473    | -6,830 | -10,065 | -9,395  |
| Below Normal Years (18%)                    | -385   | 3,543  | 2,534 | 3,190 | 2,170 | 1,548 | 1,615 | 581    | -1,987 | -7,509 | -9,570  | -4,995  |
| Dry Water Years (24%)                       | -1,594 | 1,384  | 1,900 | 5,129 | 2,884 | 2,341 | 2,165 | 727    | -3,595 | -7,622 | -8,597  | -5,763  |
| Critical Water Years (16%)                  | -4,953 | -4,297 | 2,563 | 2,700 | 3,413 | 3,484 | 1,936 | -670   | -4,763 | -7,653 | -8,039  | -6,384  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-15-9a. Sacramento River at Port Chicago Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 26,405 | 25,306 | 17,792 | 8,105 | 4,750 | 4,227 | 6,533 | 12,873 | 20,111 | 24,991 | 27,425 | 27,451 |
| 20% Exceedance                              | 25,306 | 21,882 | 12,865 | 6,100 | 3,416 | 2,715 | 4,046 | 9,740  | 17,776 | 23,975 | 26,931 | 26,786 |
| 30% Exceedance                              | 23,184 | 17,057 | 9,812  | 4,814 | 1,699 | 1,556 | 3,380 | 7,472  | 15,487 | 23,188 | 26,552 | 26,214 |
| 40% Exceedance                              | 20,324 | 15,020 | 7,211  | 2,414 | 1,401 | 1,307 | 2,403 | 5,913  | 13,619 | 21,488 | 25,809 | 25,521 |
| 50% Exceedance                              | 17,866 | 13,045 | 4,825  | 1,904 | 1,035 | 941   | 1,573 | 4,102  | 11,670 | 20,341 | 25,244 | 24,204 |
| 60% Exceedance                              | 14,867 | 11,381 | 3,311  | 1,338 | 659   | 774   | 1,173 | 2,877  | 9,386  | 18,252 | 24,357 | 22,141 |
| 70% Exceedance                              | 12,965 | 10,120 | 2,074  | 908   | 500   | 586   | 882   | 2,024  | 6,696  | 15,868 | 22,504 | 18,630 |
| 80% Exceedance                              | 11,623 | 6,607  | 1,165  | 456   | 333   | 369   | 660   | 1,244  | 4,113  | 13,079 | 19,028 | 16,921 |
| 90% Exceedance                              | 9,826  | 4,198  | 628    | 315   | 245   | 293   | 447   | 792    | 2,194  | 10,034 | 16,451 | 14,073 |
| Full Simulation Period Average <sup>a</sup> | 17,894 | 13,883 | 7,206  | 3,633 | 1,967 | 1,683 | 2,793 | 5,672  | 11,319 | 18,628 | 23,367 | 21,935 |
| Wet Water Years (28%)                       | 11,805 | 8,770  | 5,029  | 631   | 410   | 516   | 758   | 1,729  | 4,749  | 12,189 | 18,287 | 15,536 |
| Above Normal Years (14%)                    | 14,842 | 11,242 | 5,199  | 1,411 | 617   | 626   | 1,240 | 2,872  | 7,962  | 16,775 | 22,561 | 20,257 |
| Below Normal Years (18%)                    | 18,676 | 13,392 | 6,081  | 2,974 | 1,818 | 1,301 | 2,079 | 5,568  | 12,198 | 19,930 | 24,818 | 23,319 |
| Dry Water Years (24%)                       | 20,852 | 15,316 | 8,817  | 4,900 | 2,290 | 1,961 | 3,213 | 7,063  | 14,731 | 22,156 | 26,099 | 25,633 |
| Critical Water Years (16%)                  | 26,639 | 24,367 | 12,051 | 9,670 | 5,557 | 4,660 | 7,886 | 13,050 | 19,645 | 24,764 | 27,232 | 27,501 |

**Table F.2.5-15-9b. Sacramento River at Port Chicago Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan    | Feb   | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 10% Exceedance                              | 21,336 | 20,041 | 17,206 | 14,497 | 9,421 | 9,573 | 10,834 | 13,611 | 17,249 | 19,020 | 20,464 | 21,047 |
| 20% Exceedance                              | 20,497 | 19,428 | 16,657 | 12,421 | 7,290 | 6,897 | 9,119  | 10,049 | 12,191 | 14,916 | 17,749 | 20,156 |
| 30% Exceedance                              | 19,982 | 18,874 | 16,100 | 10,116 | 4,350 | 3,958 | 6,523  | 9,619  | 11,718 | 14,405 | 17,463 | 19,820 |
| 40% Exceedance                              | 19,484 | 17,784 | 14,873 | 6,690  | 3,286 | 3,236 | 5,367  | 9,072  | 11,126 | 13,648 | 16,673 | 19,433 |
| 50% Exceedance                              | 18,353 | 14,535 | 11,842 | 4,790  | 2,122 | 2,436 | 4,189  | 7,643  | 10,356 | 12,418 | 15,216 | 18,499 |
| 60% Exceedance                              | 10,641 | 14,161 | 8,412  | 3,044  | 1,310 | 1,498 | 2,989  | 5,872  | 9,894  | 10,888 | 13,485 | 11,391 |
| 70% Exceedance                              | 10,459 | 13,701 | 5,017  | 1,484  | 736   | 931   | 2,072  | 4,278  | 9,138  | 10,371 | 13,104 | 11,078 |
| 80% Exceedance                              | 10,302 | 12,737 | 3,030  | 798    | 441   | 561   | 1,200  | 2,357  | 7,137  | 9,942  | 12,733 | 10,979 |
| 90% Exceedance                              | 9,803  | 9,235  | 1,359  | 382    | 238   | 316   | 793    | 1,503  | 5,318  | 9,276  | 12,441 | 10,851 |
| Full Simulation Period Average <sup>a</sup> | 15,424 | 15,208 | 10,427 | 6,199  | 3,622 | 3,580 | 5,142  | 7,358  | 10,282 | 12,777 | 15,529 | 16,016 |
| Wet Water Years (28%)                       | 10,011 | 11,434 | 9,139  | 1,141  | 574   | 897   | 1,592  | 3,228  | 6,561  | 9,456  | 12,678 | 10,781 |
| Above Normal Years (14%)                    | 9,832  | 12,598 | 10,139 | 3,560  | 1,206 | 1,170 | 2,601  | 5,326  | 8,530  | 10,087 | 12,710 | 10,887 |
| Below Normal Years (18%)                    | 18,304 | 16,916 | 8,687  | 6,130  | 3,924 | 3,200 | 4,754  | 7,114  | 10,329 | 12,370 | 15,304 | 18,390 |
| Dry Water Years (24%)                       | 19,298 | 16,820 | 10,899 | 10,113 | 5,091 | 4,711 | 6,383  | 8,706  | 11,388 | 14,501 | 17,496 | 19,883 |
| Critical Water Years (16%)                  | 21,466 | 20,235 | 14,452 | 11,568 | 8,528 | 9,120 | 12,151 | 14,618 | 16,615 | 18,814 | 20,287 | 21,197 |

**Table F.2.5-15-9c. Sacramento River at Port Chicago Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug     | Sep     |
|---------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|
| 10% Exceedance                              | -5,069 | -5,265 | -586  | 6,392 | 4,672 | 5,346 | 4,302 | 738   | -2,862 | -5,972 | -6,962  | -6,404  |
| 20% Exceedance                              | -4,809 | -2,454 | 3,792 | 6,322 | 3,874 | 4,182 | 5,073 | 308   | -5,585 | -9,059 | -9,182  | -6,630  |
| 30% Exceedance                              | -3,202 | 1,817  | 6,288 | 5,302 | 2,651 | 2,402 | 3,143 | 2,147 | -3,770 | -8,783 | -9,089  | -6,394  |
| 40% Exceedance                              | -840   | 2,763  | 7,663 | 4,277 | 1,884 | 1,928 | 2,964 | 3,159 | -2,492 | -7,840 | -9,136  | -6,087  |
| 50% Exceedance                              | 486    | 1,490  | 7,018 | 2,887 | 1,086 | 1,495 | 2,616 | 3,542 | -1,313 | -7,923 | -10,029 | -5,705  |
| 60% Exceedance                              | -4,226 | 2,779  | 5,100 | 1,706 | 652   | 724   | 1,816 | 2,995 | 507    | -7,364 | -10,871 | -10,750 |
| 70% Exceedance                              | -2,506 | 3,581  | 2,943 | 577   | 236   | 345   | 1,190 | 2,254 | 2,442  | -5,497 | -9,400  | -7,552  |
| 80% Exceedance                              | -1,321 | 6,130  | 1,866 | 342   | 107   | 192   | 540   | 1,113 | 3,024  | -3,136 | -6,295  | -5,942  |
| 90% Exceedance                              | -23    | 5,037  | 732   | 67    | -7    | 23    | 346   | 711   | 3,125  | -758   | -4,010  | -3,222  |
| Full Simulation Period Average <sup>a</sup> | -2,470 | 1,325  | 3,220 | 2,567 | 1,655 | 1,898 | 2,348 | 1,687 | -1,037 | -5,852 | -7,838  | -5,919  |
| Wet Water Years (28%)                       | -1,794 | 2,665  | 4,110 | 509   | 164   | 380   | 833   | 1,499 | 1,812  | -2,733 | -5,609  | -4,755  |
| Above Normal Years (14%)                    | -5,010 | 1,356  | 4,939 | 2,149 | 589   | 544   | 1,361 | 2,455 | 568    | -6,688 | -9,851  | -9,370  |
| Below Normal Years (18%)                    | -373   | 3,524  | 2,605 | 3,157 | 2,106 | 1,899 | 2,675 | 1,546 | -1,869 | -7,560 | -9,513  | -4,929  |
| Dry Water Years (24%)                       | -1,553 | 1,504  | 2,082 | 5,213 | 2,801 | 2,750 | 3,169 | 1,643 | -3,343 | -7,655 | -8,604  | -5,749  |
| Critical Water Years (16%)                  | -5,173 | -4,132 | 2,401 | 1,897 | 2,971 | 4,459 | 4,265 | 1,568 | -3,030 | -5,950 | -6,944  | -6,304  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-15-10a. Sacramento River at Port Chicago Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan   | Feb   | Mar   | Apr   | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 26,405 | 25,306 | 17,792 | 8,105 | 4,750 | 4,227 | 6,533 | 12,873 | 20,111 | 24,991 | 27,425 | 27,451 |
| <b>20% Exceedance</b>                             | 25,306 | 21,882 | 12,865 | 6,100 | 3,416 | 2,715 | 4,046 | 9,740  | 17,776 | 23,975 | 26,931 | 26,786 |
| <b>30% Exceedance</b>                             | 23,184 | 17,057 | 9,812  | 4,814 | 1,699 | 1,556 | 3,380 | 7,472  | 15,487 | 23,188 | 26,552 | 26,214 |
| <b>40% Exceedance</b>                             | 20,324 | 15,020 | 7,211  | 2,414 | 1,401 | 1,307 | 2,403 | 5,913  | 13,619 | 21,488 | 25,809 | 25,521 |
| <b>50% Exceedance</b>                             | 17,866 | 13,045 | 4,825  | 1,904 | 1,035 | 941   | 1,573 | 4,102  | 11,670 | 20,341 | 25,244 | 24,204 |
| <b>60% Exceedance</b>                             | 14,867 | 11,381 | 3,311  | 1,338 | 659   | 774   | 1,173 | 2,877  | 9,386  | 18,252 | 24,357 | 22,141 |
| <b>70% Exceedance</b>                             | 12,965 | 10,120 | 2,074  | 908   | 500   | 586   | 882   | 2,024  | 6,696  | 15,868 | 22,504 | 18,630 |
| <b>80% Exceedance</b>                             | 11,623 | 6,607  | 1,165  | 456   | 333   | 369   | 660   | 1,244  | 4,113  | 13,079 | 19,028 | 16,921 |
| <b>90% Exceedance</b>                             | 9,826  | 4,198  | 628    | 315   | 245   | 293   | 447   | 792    | 2,194  | 10,034 | 16,451 | 14,073 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 17,894 | 13,883 | 7,206  | 3,633 | 1,967 | 1,683 | 2,793 | 5,672  | 11,319 | 18,628 | 23,367 | 21,935 |
| <b>Wet Water Years (28%)</b>                      | 11,805 | 8,770  | 5,029  | 631   | 410   | 516   | 758   | 1,729  | 4,749  | 12,189 | 18,287 | 15,536 |
| <b>Above Normal Years (14%)</b>                   | 14,842 | 11,242 | 5,199  | 1,411 | 617   | 626   | 1,240 | 2,872  | 7,962  | 16,775 | 22,561 | 20,257 |
| <b>Below Normal Years (18%)</b>                   | 18,676 | 13,392 | 6,081  | 2,974 | 1,818 | 1,301 | 2,079 | 5,568  | 12,198 | 19,930 | 24,818 | 23,319 |
| <b>Dry Water Years (24%)</b>                      | 20,852 | 15,316 | 8,817  | 4,900 | 2,290 | 1,961 | 3,213 | 7,063  | 14,731 | 22,156 | 26,099 | 25,633 |
| <b>Critical Water Years (16%)</b>                 | 26,639 | 24,367 | 12,051 | 9,670 | 5,557 | 4,660 | 7,886 | 13,050 | 19,645 | 24,764 | 27,232 | 27,501 |

**Table F.2.5-15-10b. Sacramento River at Port Chicago Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec    | Jan    | Feb    | Mar   | Apr    | May    | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|--------|
| <b>10% Exceedance</b>                             | 21,353 | 20,119 | 17,165 | 14,851 | 10,193 | 9,502 | 11,250 | 14,045 | 16,854 | 18,670 | 20,285 | 21,076 |
| <b>20% Exceedance</b>                             | 20,375 | 19,336 | 16,481 | 13,860 | 7,490  | 6,813 | 9,069  | 9,805  | 11,986 | 14,673 | 17,628 | 20,067 |
| <b>30% Exceedance</b>                             | 19,957 | 18,935 | 16,005 | 10,143 | 4,423  | 3,974 | 6,417  | 9,162  | 11,469 | 14,386 | 17,051 | 19,701 |
| <b>40% Exceedance</b>                             | 19,463 | 17,919 | 15,077 | 6,672  | 3,385  | 3,312 | 5,095  | 8,367  | 10,944 | 13,864 | 16,746 | 19,190 |
| <b>50% Exceedance</b>                             | 18,623 | 14,595 | 12,165 | 4,764  | 2,155  | 2,484 | 3,837  | 6,736  | 10,264 | 12,267 | 14,886 | 18,017 |
| <b>60% Exceedance</b>                             | 10,692 | 14,333 | 8,466  | 3,165  | 1,331  | 1,504 | 2,861  | 5,225  | 9,820  | 10,820 | 13,351 | 11,331 |
| <b>70% Exceedance</b>                             | 10,488 | 13,946 | 4,994  | 1,488  | 752    | 926   | 2,026  | 3,940  | 9,027  | 10,068 | 12,867 | 11,012 |
| <b>80% Exceedance</b>                             | 10,357 | 13,006 | 3,100  | 831    | 434    | 561   | 1,122  | 2,286  | 7,136  | 9,751  | 12,483 | 10,820 |
| <b>90% Exceedance</b>                             | 10,133 | 9,245  | 1,440  | 383    | 239    | 313   | 788    | 1,362  | 5,303  | 9,041  | 11,959 | 10,579 |
| <b>Full Simulation Period Average<sup>a</sup></b> | 15,423 | 15,329 | 10,473 | 6,424  | 3,766  | 3,578 | 5,018  | 7,012  | 10,225 | 12,681 | 15,334 | 15,852 |
| <b>Wet Water Years (28%)</b>                      | 9,982  | 11,469 | 9,117  | 1,208  | 572    | 883   | 1,458  | 2,915  | 6,518  | 9,338  | 12,411 | 10,622 |
| <b>Above Normal Years (14%)</b>                   | 10,042 | 12,877 | 10,122 | 3,586  | 1,211  | 1,168 | 2,380  | 4,790  | 8,526  | 9,783  | 12,244 | 10,598 |
| <b>Below Normal Years (18%)</b>                   | 18,312 | 17,243 | 8,813  | 6,123  | 4,049  | 3,261 | 4,549  | 6,401  | 10,172 | 12,296 | 15,218 | 18,213 |
| <b>Dry Water Years (24%)</b>                      | 19,206 | 16,806 | 10,858 | 10,465 | 5,395  | 4,748 | 6,226  | 8,358  | 11,208 | 14,378 | 17,270 | 19,676 |
| <b>Critical Water Years (16%)</b>                 | 21,442 | 20,328 | 14,733 | 12,313 | 8,830  | 9,006 | 12,275 | 14,796 | 16,787 | 18,957 | 20,382 | 21,209 |

**Table F.2.5-15-10c. Sacramento River at Port Chicago Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                         | Oct    | Nov    | Dec   | Jan   | Feb   | Mar   | Apr   | May   | Jun    | Jul    | Aug     | Sep     |
|---------------------------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|--------|---------|---------|
| <b>10% Exceedance</b>                             | -5,053 | -5,186 | -627  | 6,746 | 5,443 | 5,275 | 4,717 | 1,171 | -3,257 | -6,321 | -7,140  | -6,374  |
| <b>20% Exceedance</b>                             | -4,931 | -2,545 | 3,616 | 7,761 | 4,074 | 4,099 | 5,023 | 64    | -5,790 | -9,302 | -9,303  | -6,719  |
| <b>30% Exceedance</b>                             | -3,228 | 1,878  | 6,194 | 5,329 | 2,725 | 2,418 | 3,038 | 1,691 | -4,019 | -8,803 | -9,501  | -6,513  |
| <b>40% Exceedance</b>                             | -861   | 2,899  | 7,866 | 4,258 | 1,984 | 2,005 | 2,692 | 2,454 | -2,675 | -7,625 | -9,063  | -6,330  |
| <b>50% Exceedance</b>                             | 757    | 1,550  | 7,340 | 2,860 | 1,120 | 1,543 | 2,264 | 2,635 | -1,406 | -8,074 | -10,358 | -6,187  |
| <b>60% Exceedance</b>                             | -4,174 | 2,952  | 5,155 | 1,827 | 672   | 731   | 1,688 | 2,348 | 434    | -7,432 | -11,006 | -10,810 |
| <b>70% Exceedance</b>                             | -2,477 | 3,826  | 2,920 | 581   | 253   | 340   | 1,143 | 1,916 | 2,331  | -5,800 | -9,638  | -7,618  |
| <b>80% Exceedance</b>                             | -1,266 | 6,399  | 1,935 | 375   | 101   | 192   | 461   | 1,042 | 3,024  | -3,327 | -6,546  | -6,102  |
| <b>90% Exceedance</b>                             | 307    | 5,047  | 812   | 67    | -6    | 20    | 342   | 569   | 3,110  | -993   | -4,492  | -3,494  |
| <b>Full Simulation Period Average<sup>a</sup></b> | -2,471 | 1,446  | 3,267 | 2,791 | 1,799 | 1,896 | 2,225 | 1,341 | -1,093 | -5,947 | -8,032  | -6,083  |
| <b>Wet Water Years (28%)</b>                      | -1,824 | 2,699  | 4,088 | 576   | 162   | 367   | 699   | 1,186 | 1,768  | -2,852 | -5,876  | -4,914  |
| <b>Above Normal Years (14%)</b>                   | -4,799 | 1,634  | 4,923 | 2,175 | 595   | 542   | 1,140 | 1,918 | 563    | -6,992 | -10,316 | -9,659  |
| <b>Below Normal Years (18%)</b>                   | -364   | 3,851  | 2,732 | 3,149 | 2,231 | 1,960 | 2,470 | 833   | -2,026 | -7,634 | -9,600  | -5,106  |
| <b>Dry Water Years (24%)</b>                      | -1,646 | 1,490  | 2,041 | 5,565 | 3,105 | 2,787 | 3,013 | 1,295 | -3,523 | -7,777 | -8,829  | -5,956  |
| <b>Critical Water Years (16%)</b>                 | -5,197 | -4,040 | 2,682 | 2,643 | 3,273 | 4,346 | 4,389 | 1,746 | -2,857 | -5,807 | -6,850  | -6,291  |

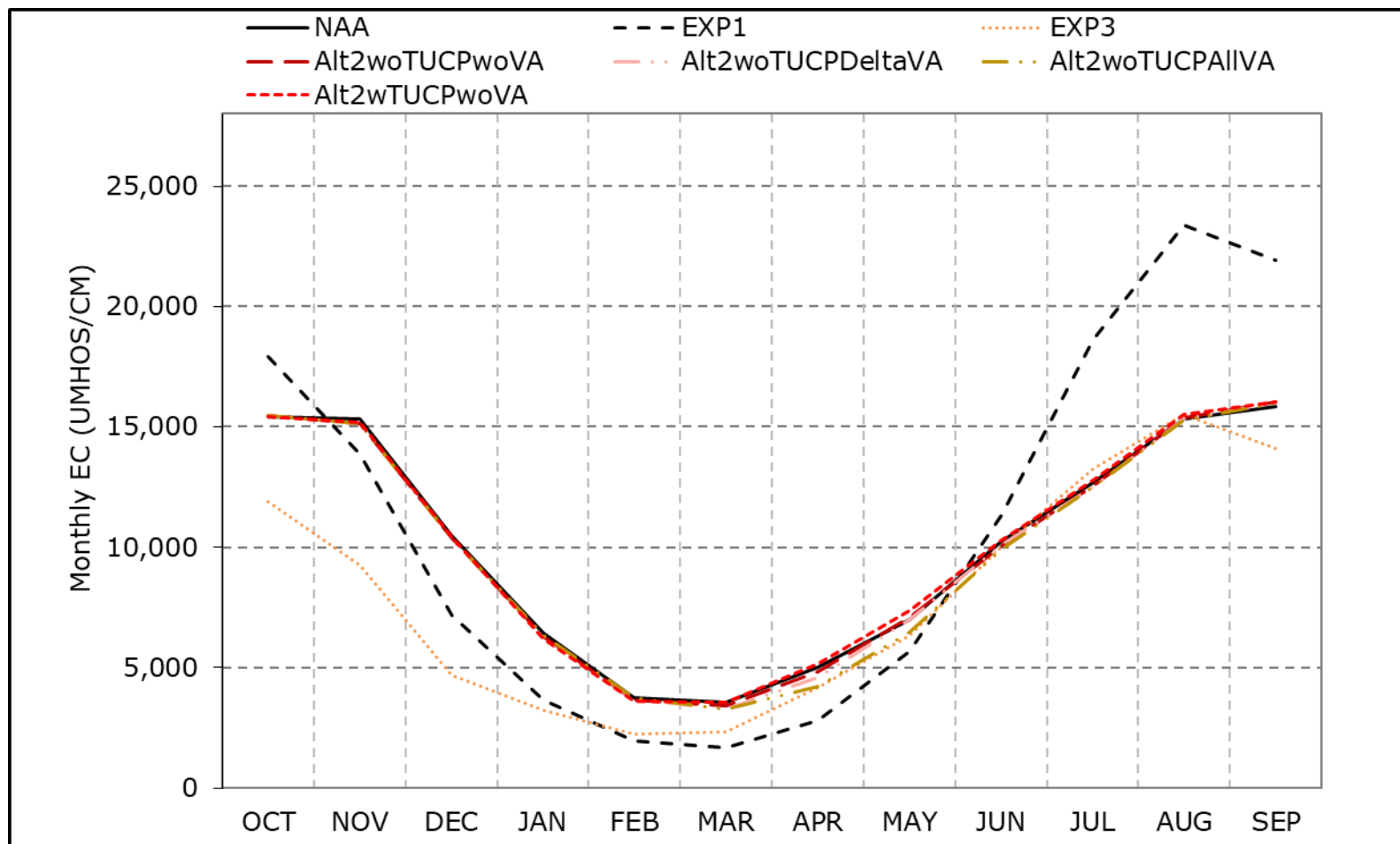
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-15-1. Sacramento River at Port Chicago Salinity, Long-Term Average EC**

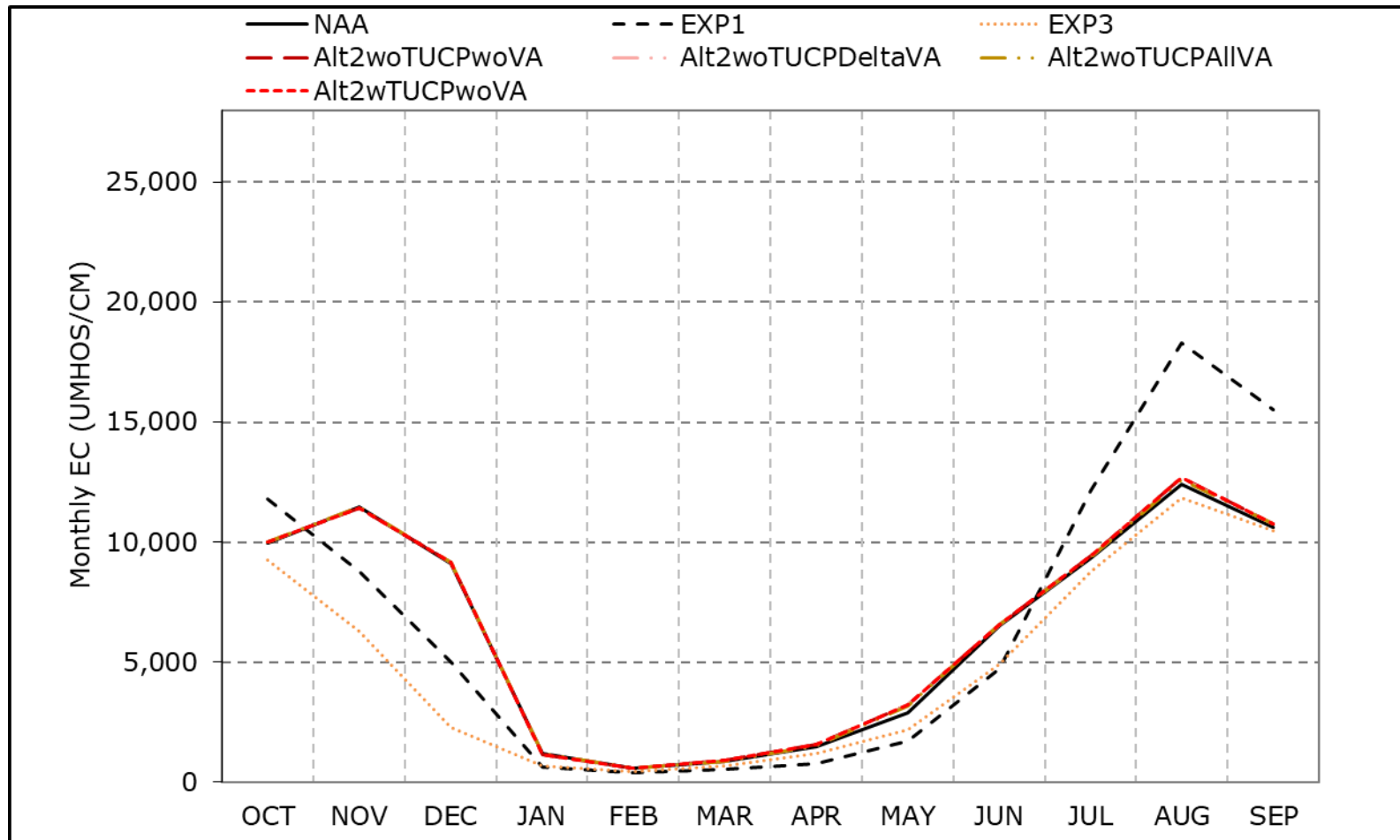


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-2. Sacramento River at Port Chicago Salinity, Wet Year Average EC**

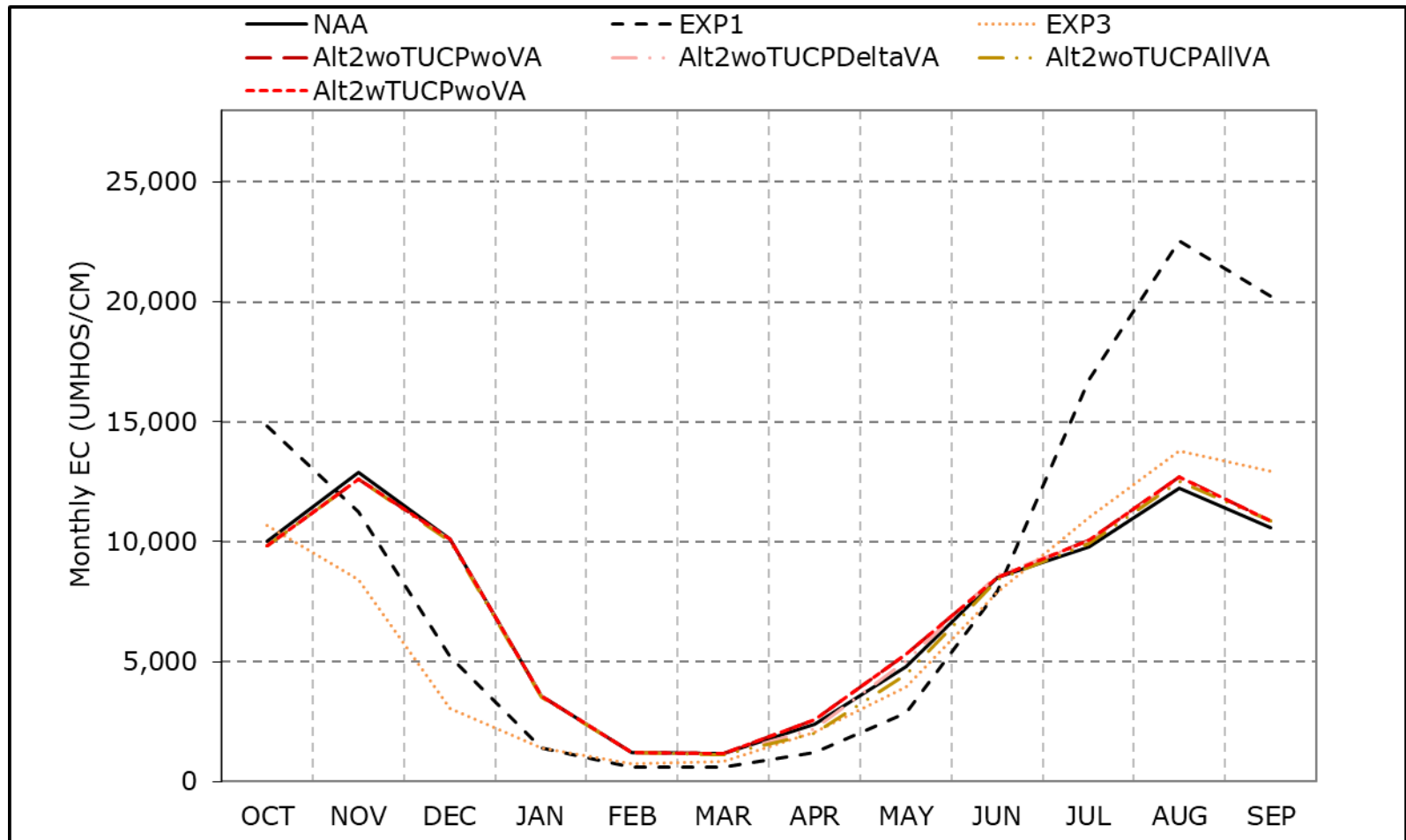


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-3. Sacramento River at Port Chicago Salinity, Above Normal Year Average EC**

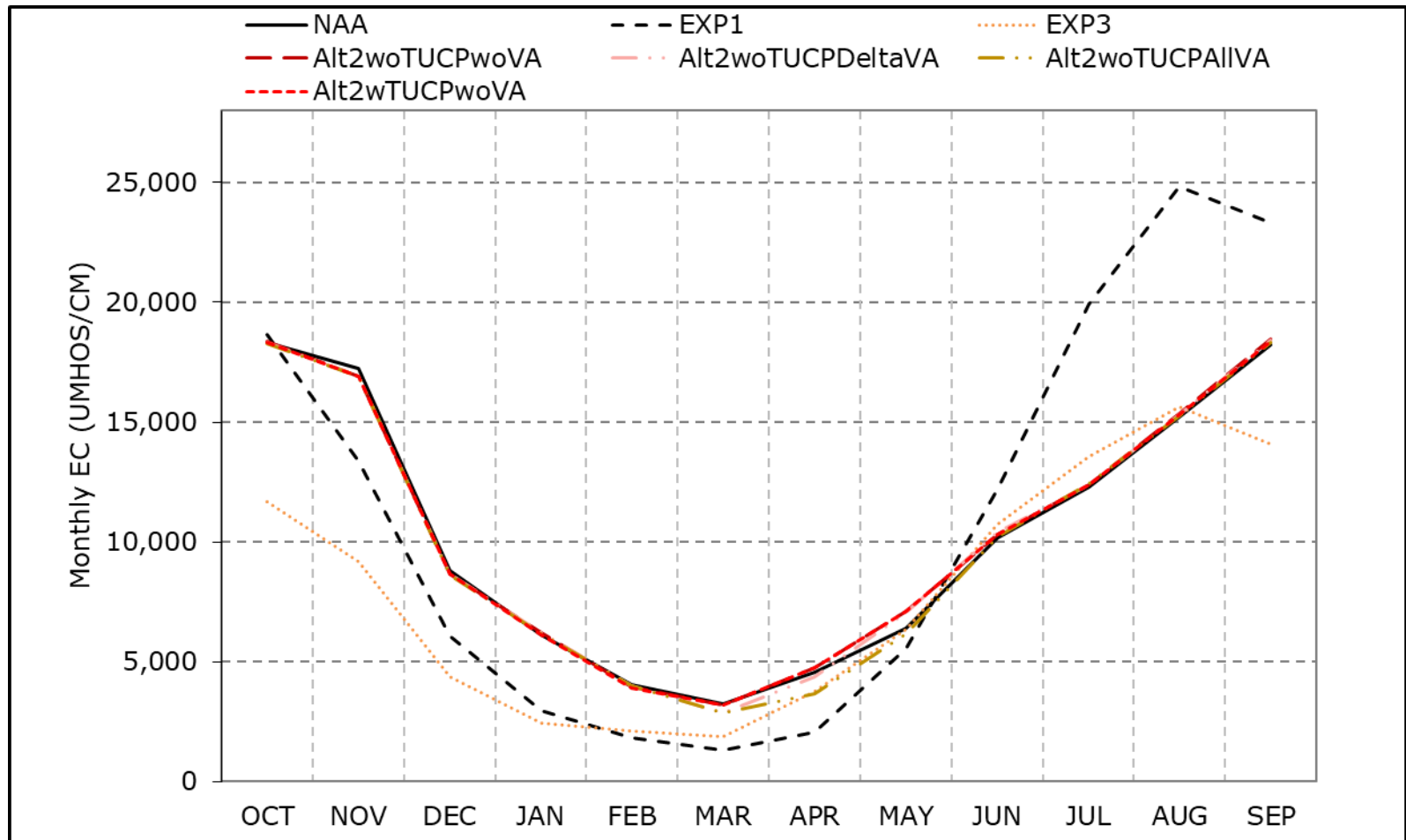


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-4. Sacramento River at Port Chicago Salinity, Below Normal Year Average EC**



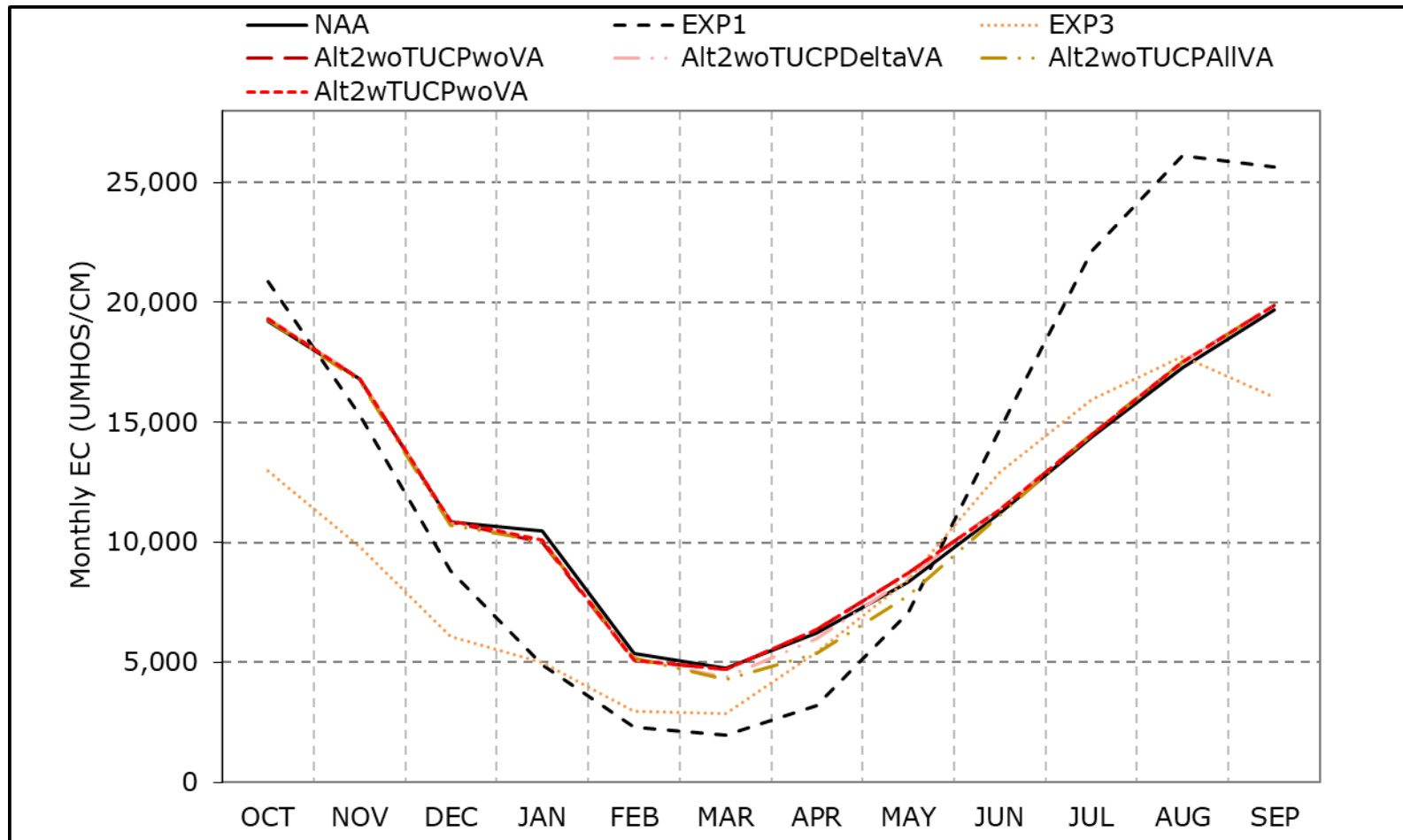
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-15-5. Sacramento River at Port Chicago Salinity, Dry Year Average EC**

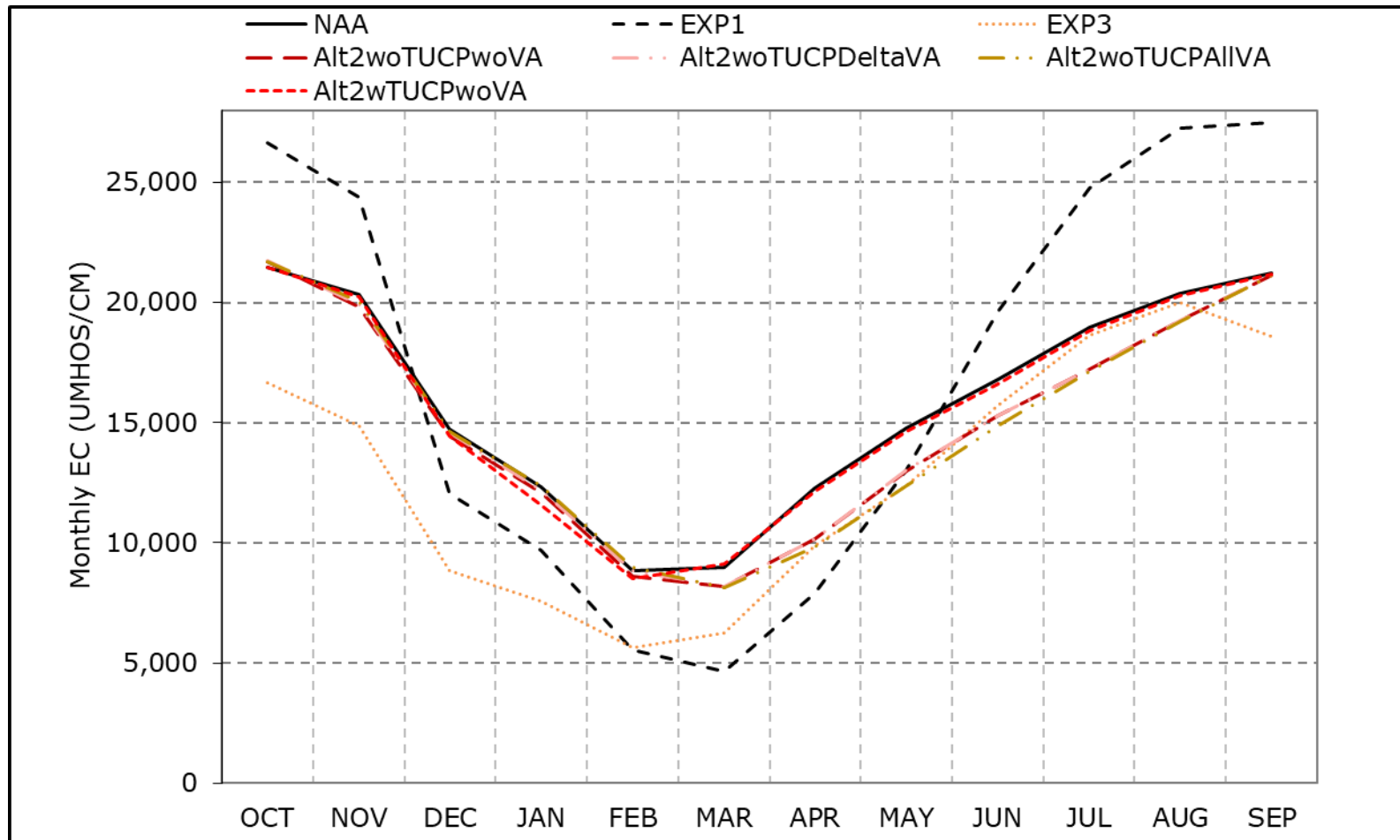


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-6. Sacramento River at Port Chicago Salinity, Critical Year Average EC**

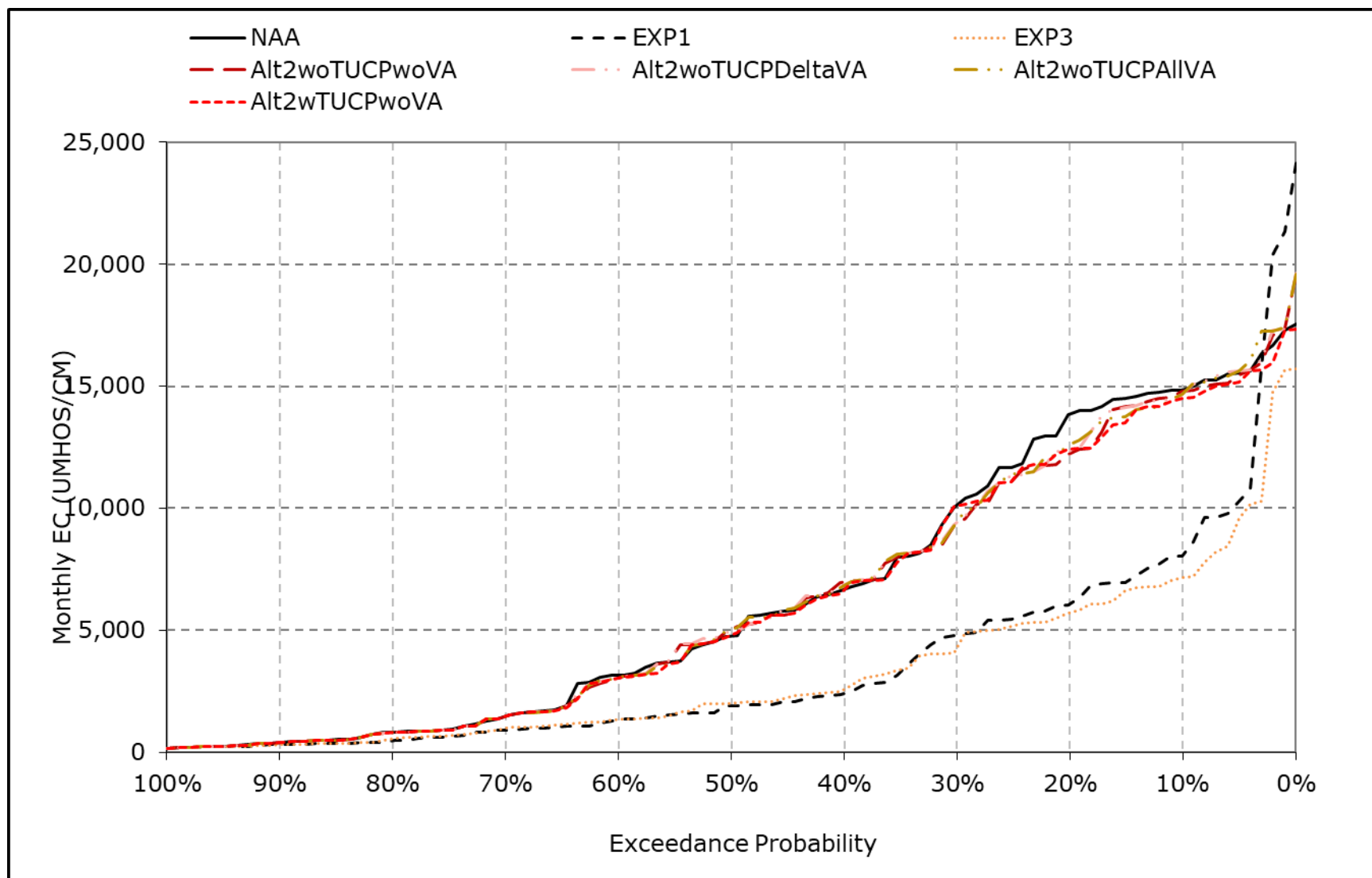


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

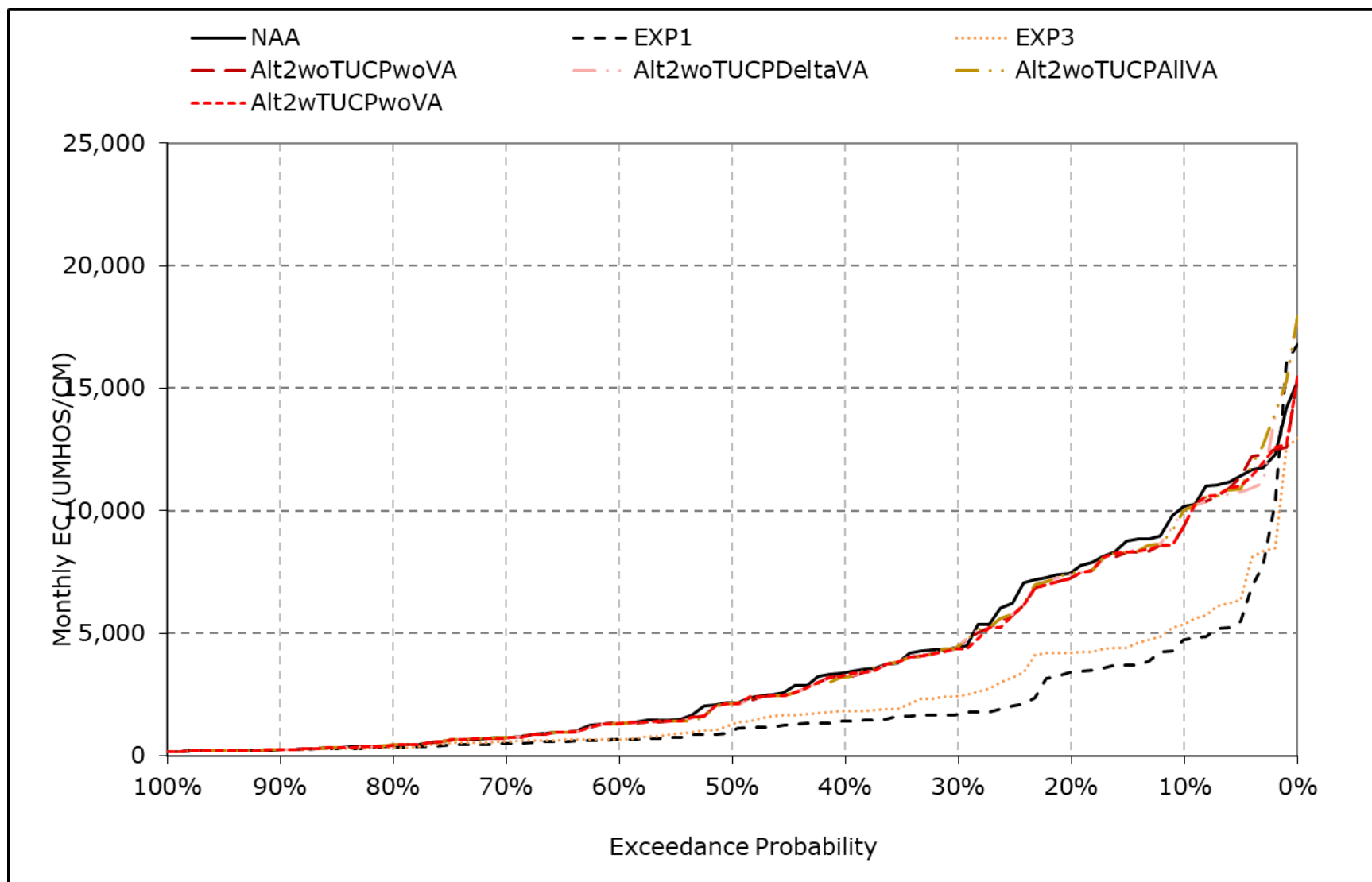
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-7. Sacramento River at Port Chicago Salinity, January EC**



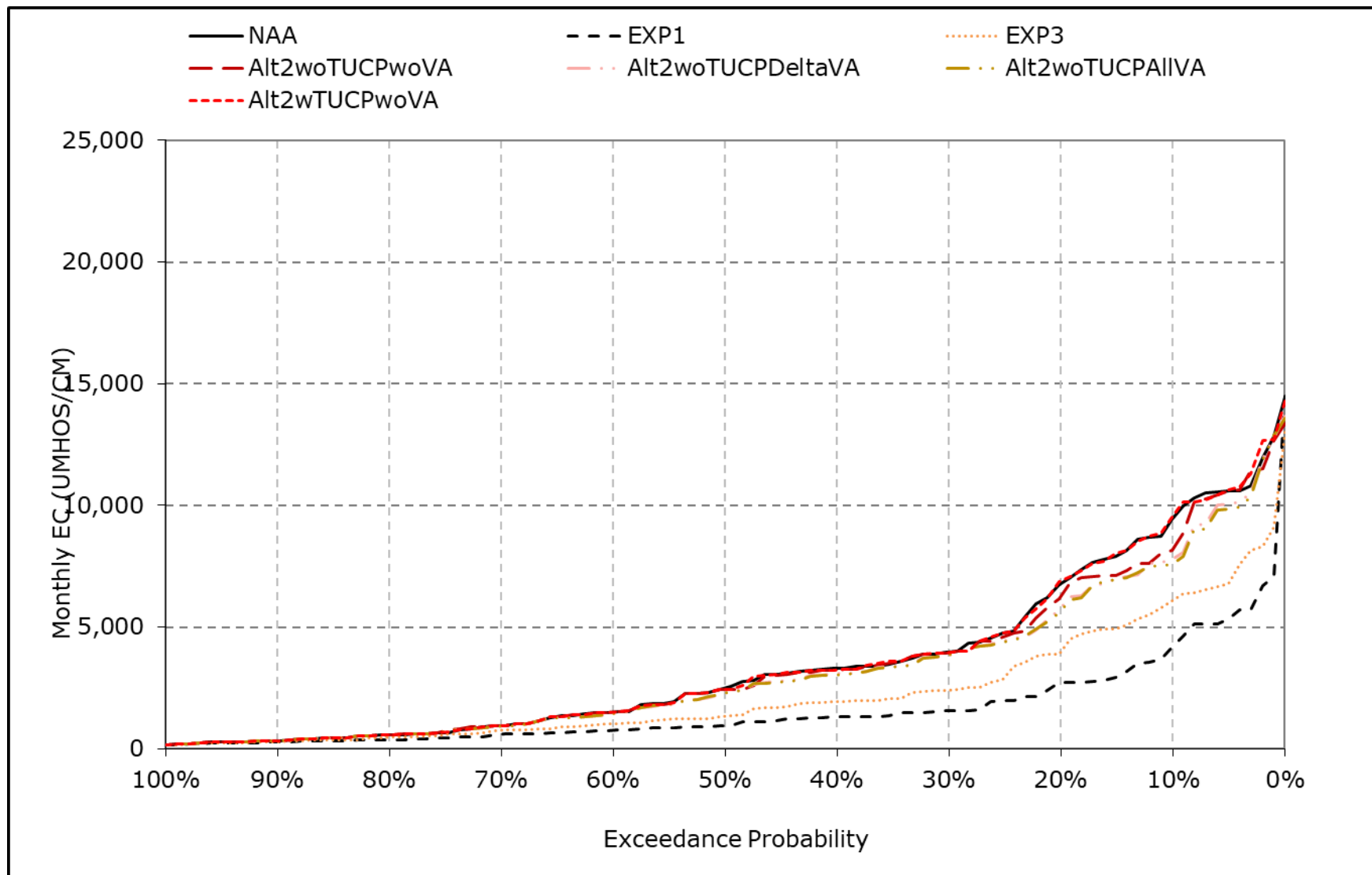
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-8. Sacramento River at Port Chicago Salinity, February EC**



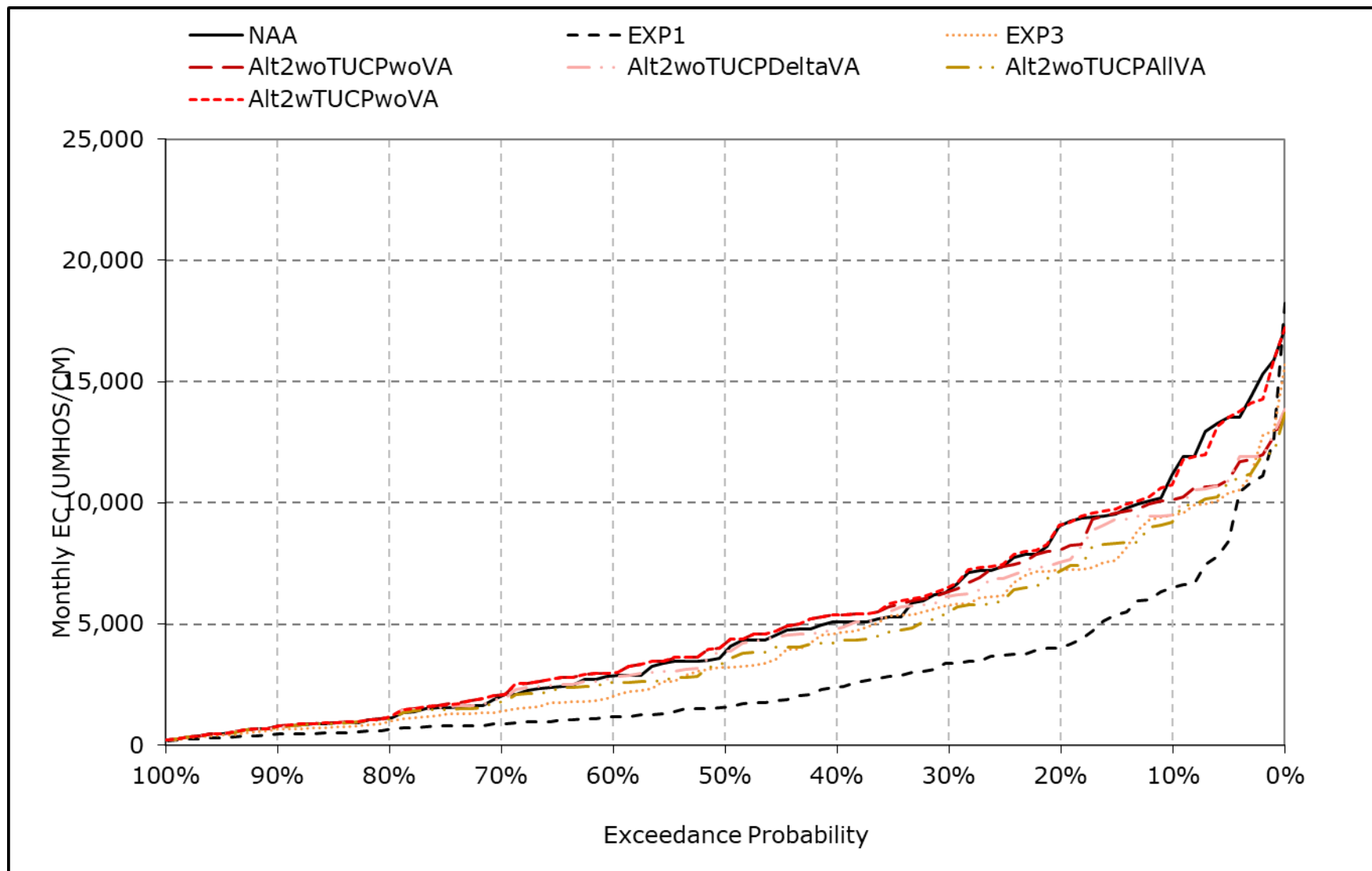
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-9. Sacramento River at Port Chicago Salinity, March EC**



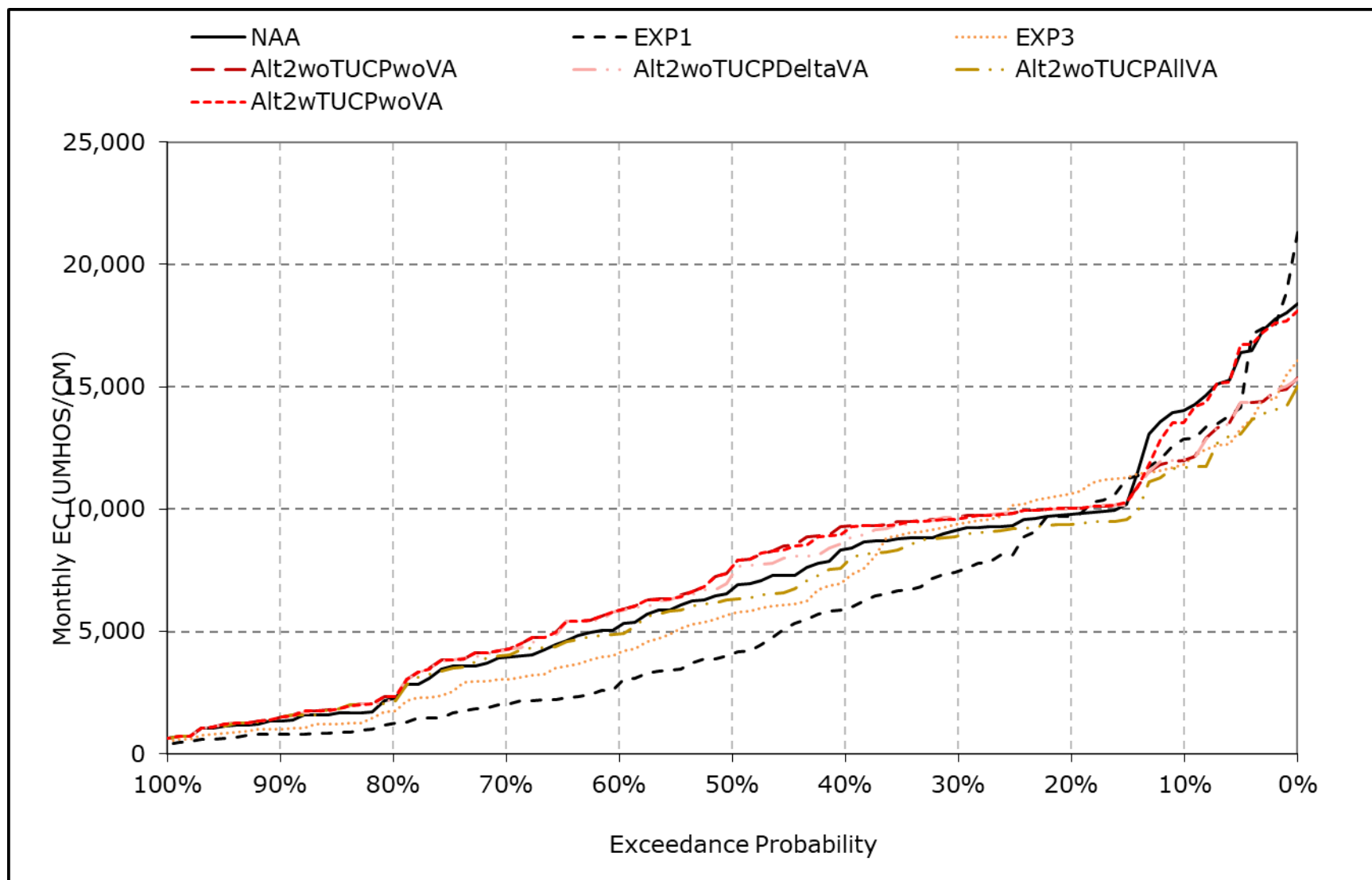
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-10. Sacramento River at Port Chicago Salinity, April EC**



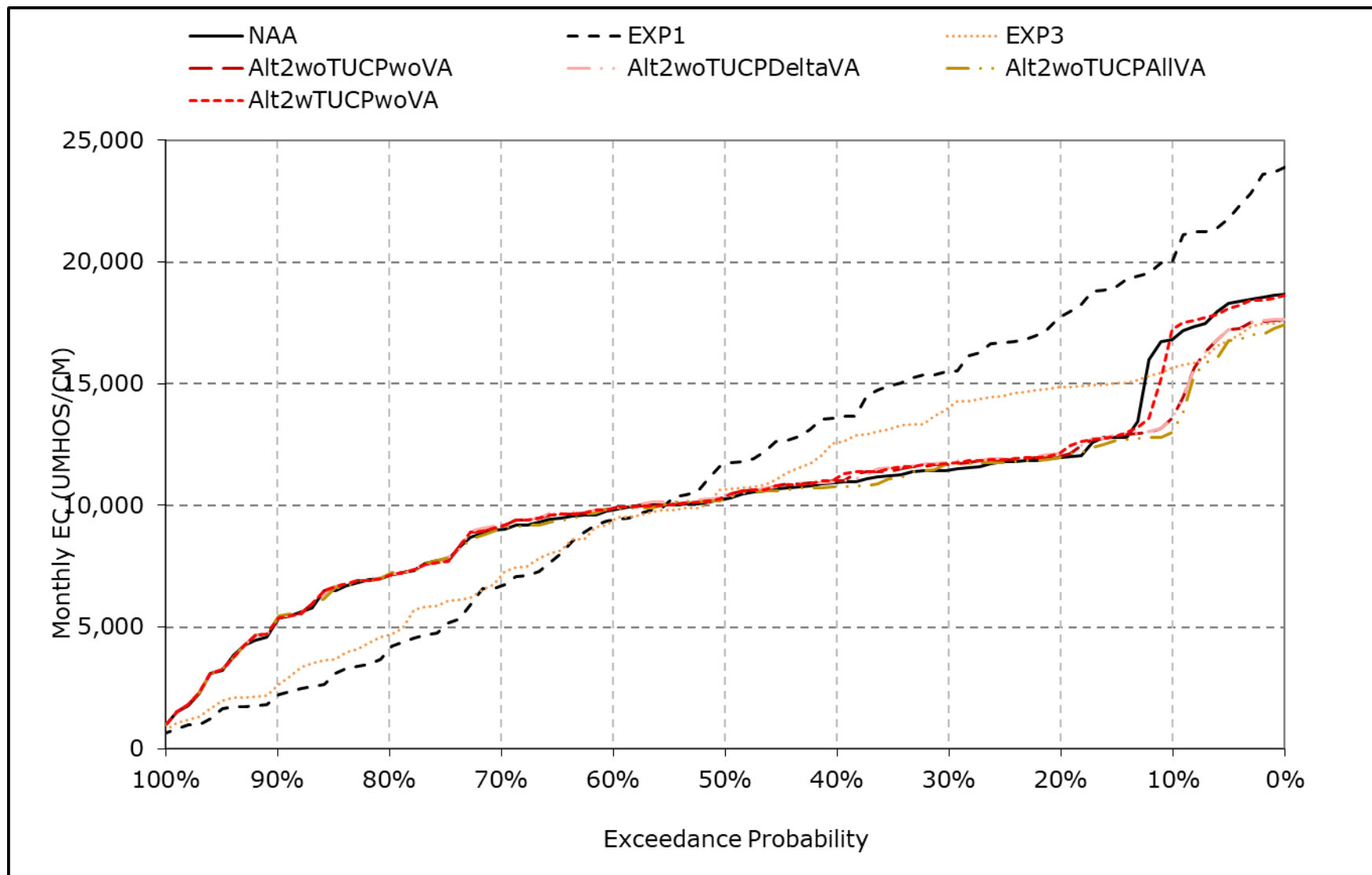
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-11. Sacramento River at Port Chicago Salinity, May EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

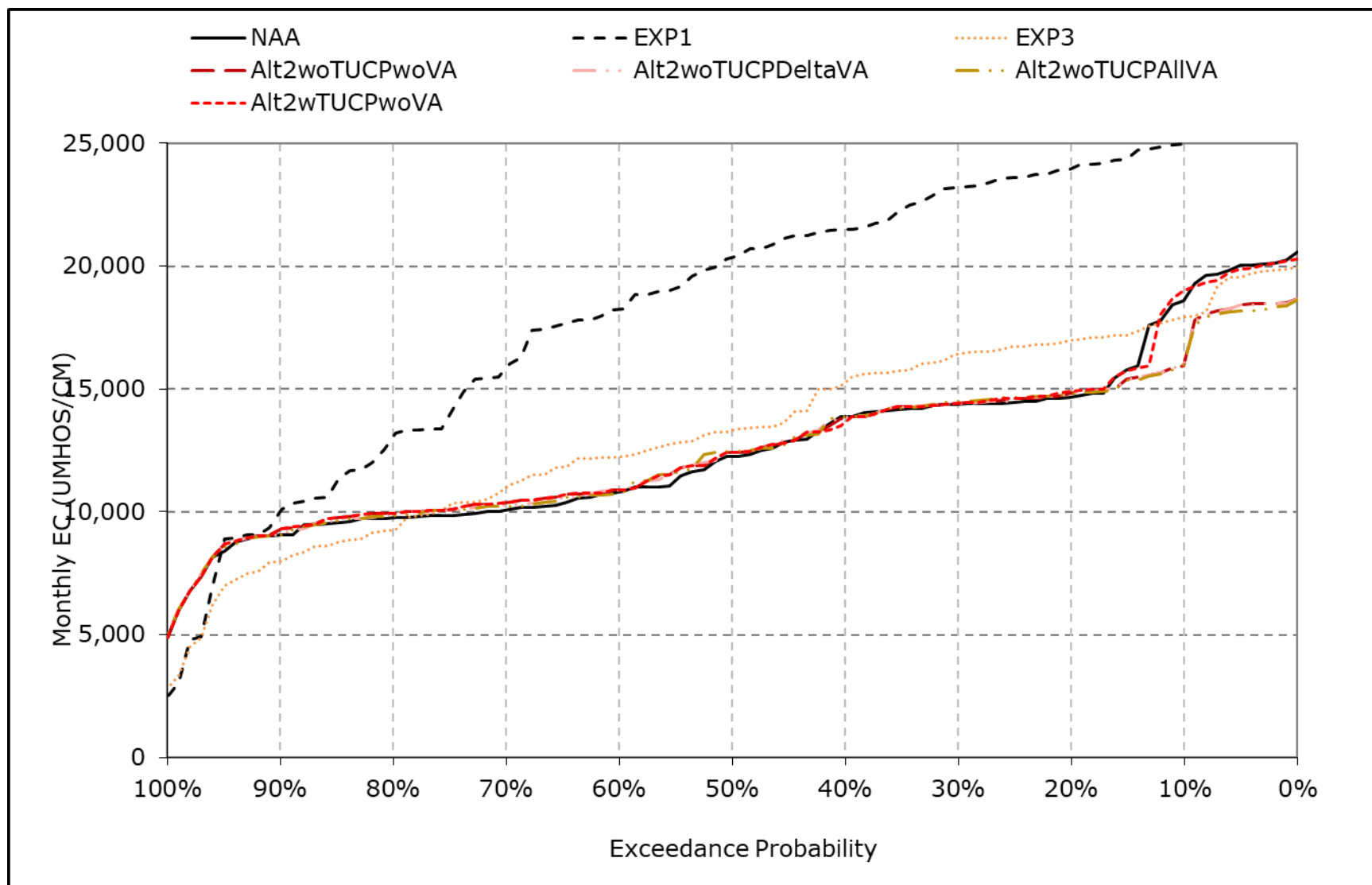
**Figure F.2.5-15-12. Sacramento River at Port Chicago Salinity, June EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

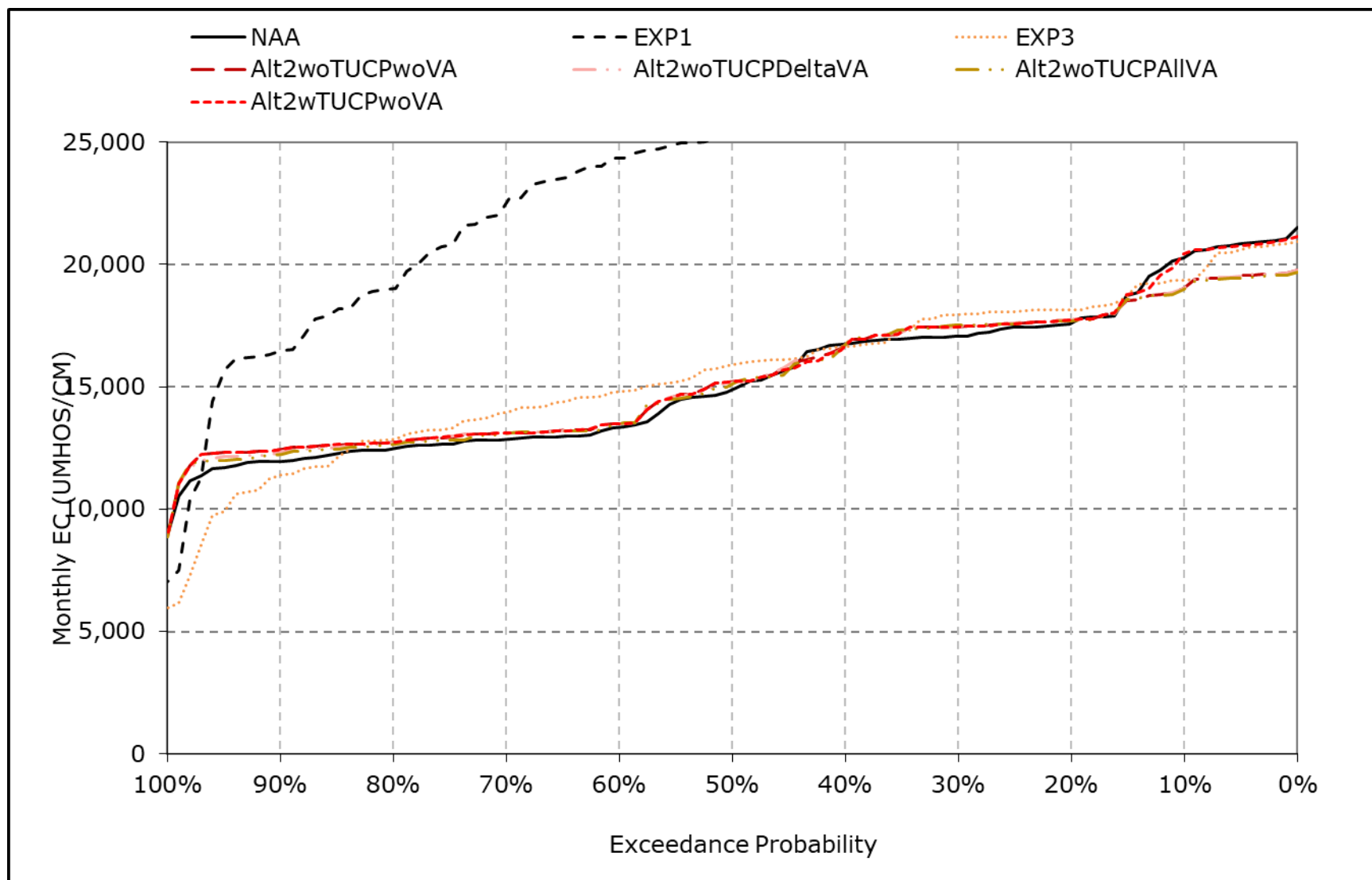


**Figure F.2.5-15-13. Sacramento River at Port Chicago Salinity, July EC**



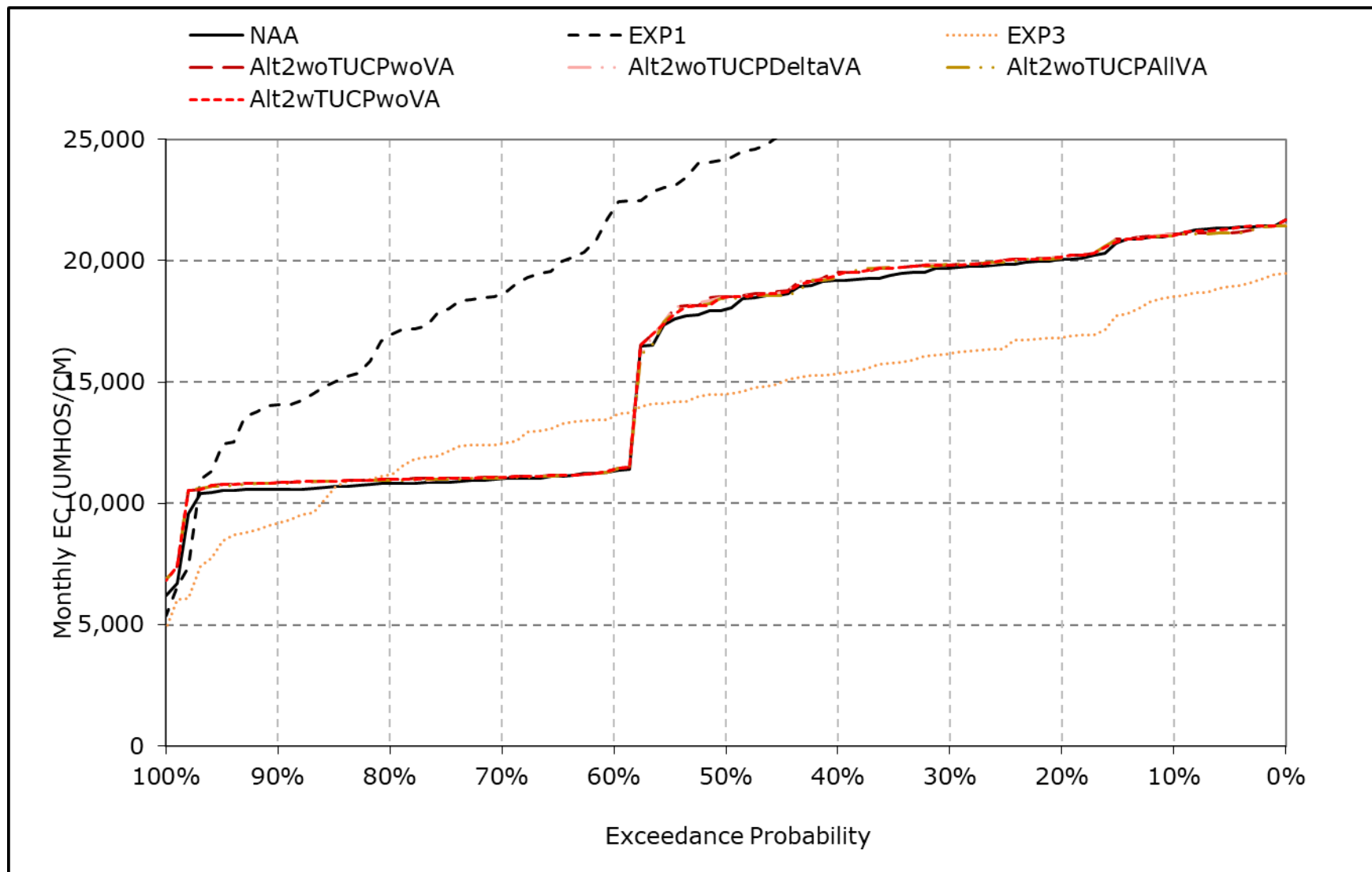
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-14. Sacramento River at Port Chicago Salinity, August EC**



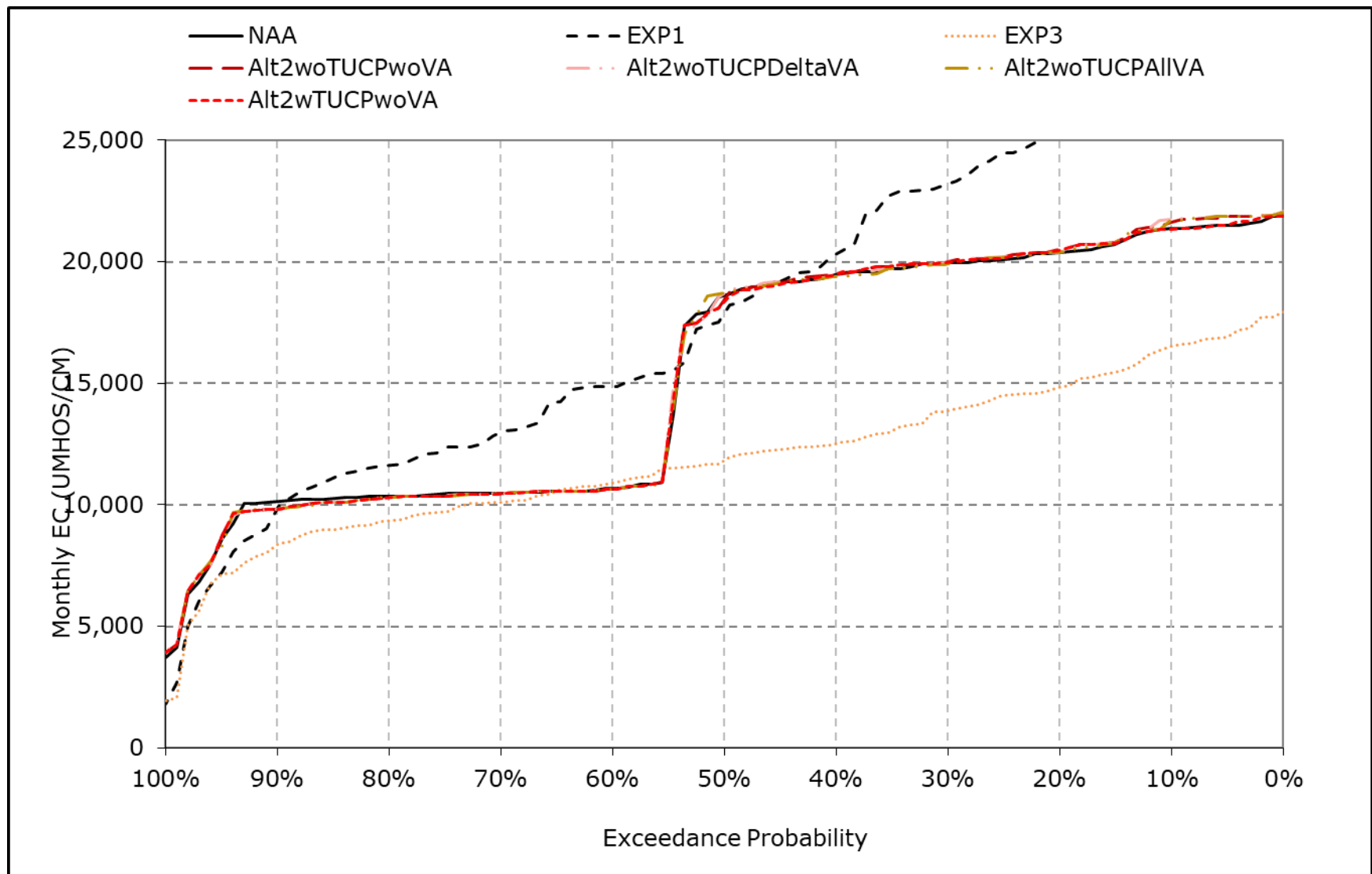
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-15. Sacramento River at Port Chicago Salinity, September EC**



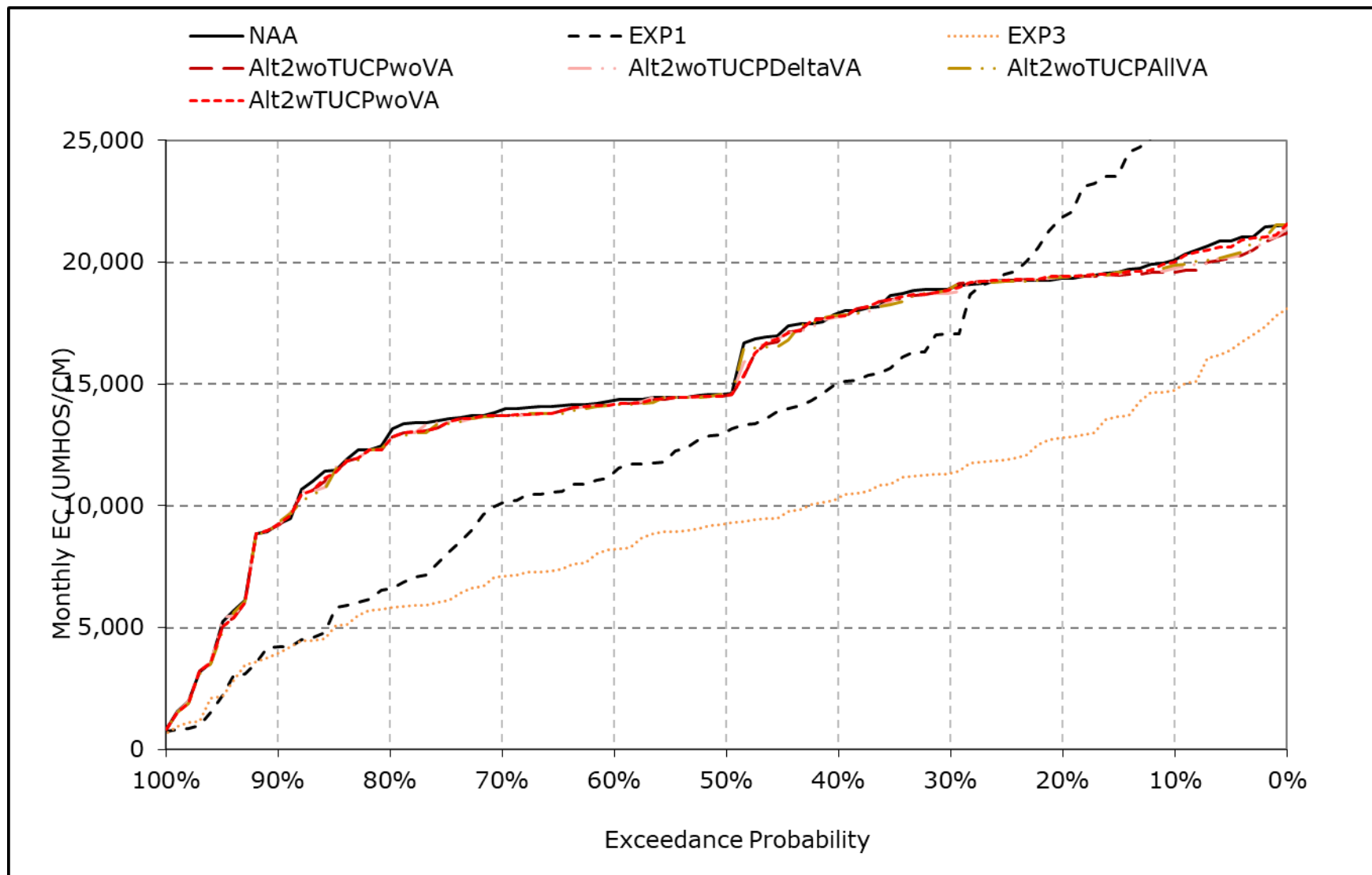
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-16. Sacramento River at Port Chicago Salinity, October EC**



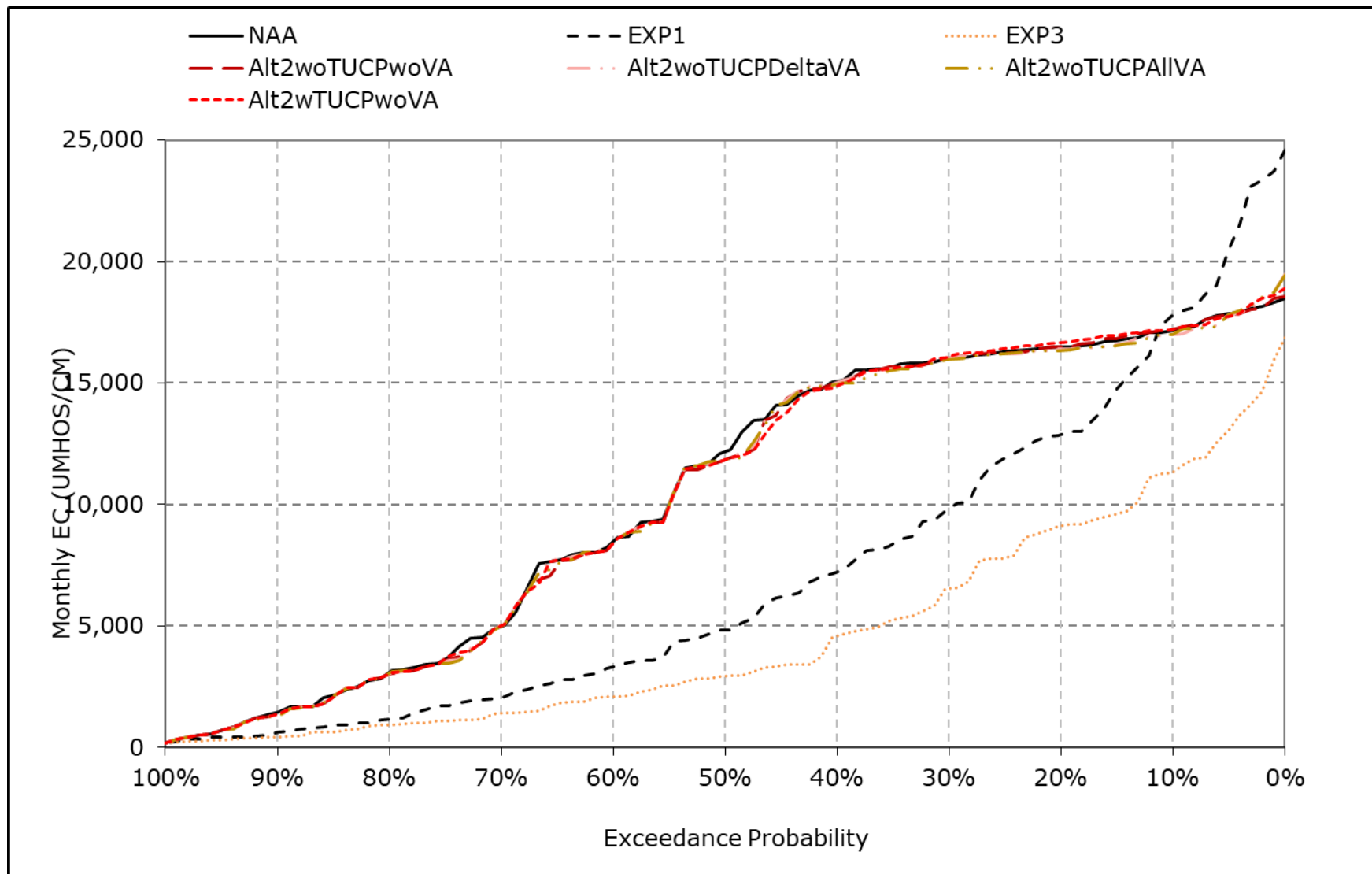
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-17. Sacramento River at Port Chicago Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-15-18. Sacramento River at Port Chicago Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-16-1a. Jones Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 626 | 726 | 765 | 773 | 720 | 658 | 600 | 520 | 511 | 533 | 569 | 586 |
| 20% Exceedance                              | 613 | 688 | 746 | 733 | 662 | 615 | 569 | 485 | 397 | 393 | 451 | 529 |
| 30% Exceedance                              | 592 | 637 | 726 | 708 | 605 | 592 | 546 | 468 | 383 | 372 | 414 | 502 |
| 40% Exceedance                              | 585 | 609 | 715 | 654 | 578 | 574 | 535 | 460 | 374 | 360 | 397 | 490 |
| 50% Exceedance                              | 561 | 571 | 680 | 602 | 543 | 554 | 518 | 444 | 370 | 354 | 377 | 458 |
| 60% Exceedance                              | 414 | 430 | 646 | 562 | 517 | 507 | 429 | 397 | 361 | 345 | 356 | 373 |
| 70% Exceedance                              | 386 | 397 | 583 | 505 | 473 | 407 | 360 | 352 | 352 | 338 | 342 | 358 |
| 80% Exceedance                              | 369 | 381 | 517 | 444 | 352 | 358 | 307 | 271 | 336 | 329 | 332 | 353 |
| 90% Exceedance                              | 353 | 372 | 426 | 312 | 209 | 249 | 192 | 124 | 265 | 318 | 322 | 347 |
| Full Simulation Period Average <sup>a</sup> | 502 | 533 | 630 | 579 | 516 | 493 | 445 | 387 | 370 | 379 | 403 | 450 |
| Wet Water Years (28%)                       | 363 | 388 | 533 | 437 | 360 | 317 | 260 | 222 | 285 | 343 | 337 | 350 |
| Above Normal Years (14%)                    | 397 | 390 | 632 | 592 | 501 | 469 | 427 | 387 | 355 | 340 | 331 | 355 |
| Below Normal Years (18%)                    | 572 | 594 | 641 | 605 | 528 | 538 | 473 | 414 | 365 | 351 | 389 | 494 |
| Dry Water Years (24%)                       | 594 | 623 | 650 | 646 | 606 | 575 | 542 | 463 | 373 | 357 | 419 | 486 |
| Critical Water Years (16%)                  | 633 | 731 | 766 | 685 | 652 | 647 | 609 | 534 | 530 | 538 | 571 | 601 |

**Table F.2.5-16-1b. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 633 | 738 | 759 | 777 | 725 | 665 | 583 | 510 | 470 | 450 | 491 | 536 |
| 20% Exceedance                              | 617 | 705 | 735 | 740 | 663 | 628 | 557 | 470 | 411 | 401 | 435 | 521 |
| 30% Exceedance                              | 605 | 641 | 721 | 704 | 616 | 597 | 543 | 461 | 387 | 383 | 418 | 501 |
| 40% Exceedance                              | 586 | 601 | 704 | 652 | 575 | 579 | 532 | 454 | 378 | 367 | 404 | 490 |
| 50% Exceedance                              | 565 | 562 | 670 | 609 | 552 | 557 | 513 | 427 | 374 | 354 | 383 | 463 |
| 60% Exceedance                              | 421 | 427 | 638 | 563 | 521 | 501 | 438 | 388 | 364 | 346 | 363 | 383 |
| 70% Exceedance                              | 388 | 401 | 571 | 508 | 480 | 403 | 360 | 344 | 353 | 338 | 350 | 367 |
| 80% Exceedance                              | 371 | 381 | 520 | 451 | 351 | 353 | 308 | 262 | 333 | 330 | 342 | 361 |
| 90% Exceedance                              | 356 | 371 | 420 | 312 | 208 | 238 | 195 | 127 | 264 | 320 | 328 | 347 |
| Full Simulation Period Average <sup>a</sup> | 505 | 536 | 623 | 582 | 518 | 498 | 440 | 377 | 365 | 371 | 394 | 444 |
| Wet Water Years (28%)                       | 364 | 388 | 529 | 434 | 357 | 315 | 261 | 220 | 286 | 347 | 343 | 354 |
| Above Normal Years (14%)                    | 399 | 387 | 626 | 597 | 503 | 468 | 423 | 372 | 355 | 335 | 340 | 367 |
| Below Normal Years (18%)                    | 578 | 590 | 635 | 609 | 532 | 535 | 473 | 407 | 369 | 356 | 396 | 489 |
| Dry Water Years (24%)                       | 600 | 627 | 650 | 649 | 610 | 578 | 540 | 456 | 381 | 366 | 429 | 498 |
| Critical Water Years (16%)                  | 635 | 748 | 741 | 695 | 657 | 682 | 584 | 506 | 483 | 468 | 474 | 534 |

**Table F.2.5-16-1c. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 7   | 11  | -6  | 4   | 5   | 7   | -16 | -10 | -41 | -83 | -78 | -49 |
| 20% Exceedance                              | 4   | 16  | -11 | 7   | 2   | 12  | -12 | -15 | 13  | 8   | -16 | -8  |
| 30% Exceedance                              | 12  | 5   | -5  | -5  | 11  | 5   | -3  | -7  | 4   | 11  | 4   | -1  |
| 40% Exceedance                              | 1   | -8  | -10 | -2  | -3  | 5   | -3  | -6  | 4   | 7   | 7   | 0   |
| 50% Exceedance                              | 3   | -8  | -11 | 6   | 10  | 3   | -4  | -17 | 4   | 0   | 6   | 4   |
| 60% Exceedance                              | 8   | -3  | -8  | 1   | 4   | -6  | 8   | -9  | 3   | 1   | 7   | 10  |
| 70% Exceedance                              | 2   | 4   | -12 | 3   | 7   | -5  | 0   | -8  | 1   | 1   | 9   | 9   |
| 80% Exceedance                              | 2   | -1  | 3   | 7   | -1  | -4  | 1   | -9  | -3  | 2   | 10  | 8   |
| 90% Exceedance                              | 3   | -1  | -6  | 1   | -1  | -10 | 3   | 3   | -1  | 2   | 6   | 0   |
| Full Simulation Period Average <sup>a</sup> | 4   | 3   | -7  | 3   | 2   | 5   | -5  | -10 | -4  | -8  | -9  | -6  |
| Wet Water Years (28%)                       | 1   | 0   | -4  | -3  | -3  | -2  | 1   | -2  | 1   | 4   | 6   | 4   |
| Above Normal Years (14%)                    | 3   | -3  | -5  | 5   | 2   | -1  | -4  | -15 | 0   | -5  | 9   | 13  |
| Below Normal Years (18%)                    | 7   | -4  | -6  | 4   | 3   | -3  | 0   | -7  | 4   | 5   | 7   | -5  |
| Dry Water Years (24%)                       | 6   | 4   | 0   | 3   | 3   | 3   | -2  | -7  | 8   | 8   | 10  | 12  |
| Critical Water Years (16%)                  | 2   | 17  | -26 | 10  | 5   | 35  | -25 | -28 | -47 | -69 | -97 | -67 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-16-2a. Jones Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 626 | 726 | 765 | 773 | 720 | 658 | 600 | 520 | 511 | 533 | 569 | 586 |
| 20% Exceedance                              | 613 | 688 | 746 | 733 | 662 | 615 | 569 | 485 | 397 | 393 | 451 | 529 |
| 30% Exceedance                              | 592 | 637 | 726 | 708 | 605 | 592 | 546 | 468 | 383 | 372 | 414 | 502 |
| 40% Exceedance                              | 585 | 609 | 715 | 654 | 578 | 574 | 535 | 460 | 374 | 360 | 397 | 490 |
| 50% Exceedance                              | 561 | 571 | 680 | 602 | 543 | 554 | 518 | 444 | 370 | 354 | 377 | 458 |
| 60% Exceedance                              | 414 | 430 | 646 | 562 | 517 | 507 | 429 | 397 | 361 | 345 | 356 | 373 |
| 70% Exceedance                              | 386 | 397 | 583 | 505 | 473 | 407 | 360 | 352 | 352 | 338 | 342 | 358 |
| 80% Exceedance                              | 369 | 381 | 517 | 444 | 352 | 358 | 307 | 271 | 336 | 329 | 332 | 353 |
| 90% Exceedance                              | 353 | 372 | 426 | 312 | 209 | 249 | 192 | 124 | 265 | 318 | 322 | 347 |
| Full Simulation Period Average <sup>a</sup> | 502 | 533 | 630 | 579 | 516 | 493 | 445 | 387 | 370 | 379 | 403 | 450 |
| Wet Water Years (28%)                       | 363 | 388 | 533 | 437 | 360 | 317 | 260 | 222 | 285 | 343 | 337 | 350 |
| Above Normal Years (14%)                    | 397 | 390 | 632 | 592 | 501 | 469 | 427 | 387 | 355 | 340 | 331 | 355 |
| Below Normal Years (18%)                    | 572 | 594 | 641 | 605 | 528 | 538 | 473 | 414 | 365 | 351 | 389 | 494 |
| Dry Water Years (24%)                       | 594 | 623 | 650 | 646 | 606 | 575 | 542 | 463 | 373 | 357 | 419 | 486 |
| Critical Water Years (16%)                  | 633 | 731 | 766 | 685 | 652 | 647 | 609 | 534 | 530 | 538 | 571 | 601 |

**Table F.2.5-16-2b. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 637 | 740 | 765 | 766 | 715 | 736 | 619 | 522 | 475 | 452 | 491 | 540 |
| 20% Exceedance                              | 616 | 706 | 739 | 738 | 662 | 705 | 594 | 497 | 410 | 396 | 442 | 528 |
| 30% Exceedance                              | 602 | 649 | 722 | 691 | 617 | 662 | 575 | 481 | 392 | 383 | 420 | 508 |
| 40% Exceedance                              | 586 | 599 | 703 | 650 | 576 | 640 | 562 | 471 | 386 | 369 | 408 | 493 |
| 50% Exceedance                              | 564 | 571 | 670 | 611 | 555 | 592 | 531 | 448 | 378 | 356 | 392 | 472 |
| 60% Exceedance                              | 419 | 429 | 639 | 564 | 521 | 521 | 446 | 401 | 370 | 349 | 363 | 382 |
| 70% Exceedance                              | 384 | 403 | 572 | 509 | 481 | 413 | 362 | 351 | 361 | 341 | 351 | 367 |
| 80% Exceedance                              | 372 | 385 | 521 | 451 | 351 | 355 | 307 | 264 | 338 | 330 | 342 | 360 |
| 90% Exceedance                              | 356 | 371 | 421 | 312 | 208 | 238 | 192 | 127 | 264 | 320 | 326 | 347 |
| Full Simulation Period Average <sup>a</sup> | 507 | 537 | 625 | 580 | 520 | 533 | 458 | 388 | 368 | 372 | 396 | 447 |
| Wet Water Years (28%)                       | 364 | 388 | 530 | 435 | 357 | 323 | 263 | 222 | 286 | 348 | 343 | 354 |
| Above Normal Years (14%)                    | 398 | 389 | 630 | 598 | 503 | 502 | 443 | 389 | 360 | 342 | 341 | 365 |
| Below Normal Years (18%)                    | 579 | 591 | 638 | 611 | 534 | 603 | 500 | 420 | 373 | 357 | 400 | 495 |
| Dry Water Years (24%)                       | 601 | 630 | 648 | 642 | 611 | 633 | 576 | 478 | 387 | 365 | 435 | 506 |
| Critical Water Years (16%)                  | 644 | 752 | 746 | 688 | 669 | 698 | 590 | 508 | 487 | 468 | 475 | 538 |

**Table F.2.5-16-2c. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 11  | 14  | 0   | -6  | -5  | 78  | 19  | 2   | -36 | -81 | -78 | -46 |
| 20% Exceedance                              | 3   | 17  | -7  | 4   | 1   | 90  | 25  | 12  | 13  | 4   | -9  | 0   |
| 30% Exceedance                              | 10  | 12  | -4  | -17 | 11  | 71  | 28  | 13  | 9   | 11  | 6   | 6   |
| 40% Exceedance                              | 0   | -10 | -11 | -4  | -2  | 65  | 27  | 11  | 12  | 9   | 11  | 2   |
| 50% Exceedance                              | 3   | 0   | -10 | 8   | 12  | 38  | 13  | 4   | 8   | 2   | 15  | 14  |
| 60% Exceedance                              | 5   | -1  | -8  | 2   | 3   | 14  | 17  | 3   | 9   | 4   | 7   | 9   |
| 70% Exceedance                              | -2  | 5   | -11 | 5   | 8   | 6   | 1   | -1  | 8   | 3   | 9   | 9   |
| 80% Exceedance                              | 4   | 3   | 4   | 8   | -1  | -3  | 0   | -8  | 3   | 1   | 10  | 7   |
| 90% Exceedance                              | 2   | -1  | -5  | 0   | -1  | -10 | 0   | 3   | 0   | 2   | 4   | 0   |
| Full Simulation Period Average <sup>a</sup> | 5   | 4   | -5  | 1   | 4   | 40  | 13  | 1   | -1  | -7  | -7  | -3  |
| Wet Water Years (28%)                       | 1   | 1   | -3  | -2  | -3  | 6   | 3   | 0   | 2   | 5   | 5   | 4   |
| Above Normal Years (14%)                    | 1   | 0   | -2  | 5   | 2   | 33  | 16  | 2   | 5   | 2   | 11  | 10  |
| Below Normal Years (18%)                    | 7   | -3  | -4  | 7   | 6   | 66  | 26  | 6   | 8   | 6   | 12  | 1   |
| Dry Water Years (24%)                       | 7   | 7   | -2  | -4  | 5   | 58  | 35  | 15  | 14  | 8   | 15  | 20  |
| Critical Water Years (16%)                  | 10  | 21  | -20 | 3   | 17  | 52  | -19 | -26 | -44 | -70 | -96 | -63 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-16-3a. Jones Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 626 | 726 | 765 | 773 | 720 | 658 | 600 | 520 | 511 | 533 | 569 | 586 |
| 20% Exceedance                              | 613 | 688 | 746 | 733 | 662 | 615 | 569 | 485 | 397 | 393 | 451 | 529 |
| 30% Exceedance                              | 592 | 637 | 726 | 708 | 605 | 592 | 546 | 468 | 383 | 372 | 414 | 502 |
| 40% Exceedance                              | 585 | 609 | 715 | 654 | 578 | 574 | 535 | 460 | 374 | 360 | 397 | 490 |
| 50% Exceedance                              | 561 | 571 | 680 | 602 | 543 | 554 | 518 | 444 | 370 | 354 | 377 | 458 |
| 60% Exceedance                              | 414 | 430 | 646 | 562 | 517 | 507 | 429 | 397 | 361 | 345 | 356 | 373 |
| 70% Exceedance                              | 386 | 397 | 583 | 505 | 473 | 407 | 360 | 352 | 352 | 338 | 342 | 358 |
| 80% Exceedance                              | 369 | 381 | 517 | 444 | 352 | 358 | 307 | 271 | 336 | 329 | 332 | 353 |
| 90% Exceedance                              | 353 | 372 | 426 | 312 | 209 | 249 | 192 | 124 | 265 | 318 | 322 | 347 |
| Full Simulation Period Average <sup>a</sup> | 502 | 533 | 630 | 579 | 516 | 493 | 445 | 387 | 370 | 379 | 403 | 450 |
| Wet Water Years (28%)                       | 363 | 388 | 533 | 437 | 360 | 317 | 260 | 222 | 285 | 343 | 337 | 350 |
| Above Normal Years (14%)                    | 397 | 390 | 632 | 592 | 501 | 469 | 427 | 387 | 355 | 340 | 331 | 355 |
| Below Normal Years (18%)                    | 572 | 594 | 641 | 605 | 528 | 538 | 473 | 414 | 365 | 351 | 389 | 494 |
| Dry Water Years (24%)                       | 594 | 623 | 650 | 646 | 606 | 575 | 542 | 463 | 373 | 357 | 419 | 486 |
| Critical Water Years (16%)                  | 633 | 731 | 766 | 685 | 652 | 647 | 609 | 534 | 530 | 538 | 571 | 601 |

**Table F.2.5-16-3b. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 637 | 737 | 765 | 774 | 713 | 737 | 619 | 521 | 471 | 440 | 482 | 540 |
| 20% Exceedance                              | 613 | 682 | 741 | 739 | 653 | 705 | 594 | 500 | 406 | 401 | 439 | 527 |
| 30% Exceedance                              | 602 | 645 | 723 | 690 | 616 | 662 | 577 | 482 | 389 | 381 | 418 | 511 |
| 40% Exceedance                              | 586 | 593 | 701 | 641 | 577 | 639 | 562 | 472 | 382 | 375 | 406 | 494 |
| 50% Exceedance                              | 565 | 573 | 667 | 608 | 552 | 594 | 530 | 447 | 375 | 357 | 391 | 472 |
| 60% Exceedance                              | 414 | 427 | 639 | 568 | 524 | 520 | 446 | 400 | 368 | 348 | 364 | 381 |
| 70% Exceedance                              | 386 | 401 | 573 | 509 | 482 | 413 | 362 | 350 | 360 | 342 | 351 | 366 |
| 80% Exceedance                              | 371 | 384 | 522 | 451 | 351 | 355 | 307 | 264 | 337 | 332 | 339 | 359 |
| 90% Exceedance                              | 355 | 371 | 423 | 312 | 208 | 239 | 193 | 127 | 264 | 324 | 324 | 347 |
| Full Simulation Period Average <sup>a</sup> | 506 | 536 | 624 | 579 | 520 | 533 | 458 | 388 | 365 | 372 | 395 | 446 |
| Wet Water Years (28%)                       | 364 | 388 | 530 | 437 | 357 | 322 | 263 | 222 | 286 | 349 | 343 | 354 |
| Above Normal Years (14%)                    | 397 | 389 | 631 | 597 | 503 | 502 | 443 | 389 | 358 | 343 | 337 | 362 |
| Below Normal Years (18%)                    | 576 | 590 | 638 | 608 | 534 | 604 | 499 | 419 | 370 | 361 | 399 | 495 |
| Dry Water Years (24%)                       | 599 | 623 | 646 | 637 | 604 | 634 | 576 | 480 | 384 | 367 | 437 | 507 |
| Critical Water Years (16%)                  | 649 | 757 | 743 | 691 | 675 | 701 | 590 | 507 | 477 | 457 | 469 | 534 |

**Table F.2.5-16-3c. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| 10% Exceedance                              | 11  | 11  | -1  | 1   | -7  | 79  | 19  | 1   | -40 | -93 | -87  | -45 |
| 20% Exceedance                              | 0   | -6  | -5  | 5   | -9  | 90  | 25  | 15  | 8   | 8   | -12  | -2  |
| 30% Exceedance                              | 10  | 8   | -3  | -19 | 10  | 71  | 31  | 14  | 6   | 9   | 4    | 10  |
| 40% Exceedance                              | 1   | -17 | -13 | -12 | -1  | 65  | 27  | 11  | 8   | 15  | 10   | 4   |
| 50% Exceedance                              | 4   | 3   | -13 | 5   | 9   | 40  | 13  | 3   | 5   | 3   | 13   | 14  |
| 60% Exceedance                              | 0   | -3  | -7  | 6   | 7   | 13  | 17  | 3   | 7   | 3   | 8    | 8   |
| 70% Exceedance                              | 0   | 4   | -10 | 4   | 9   | 6   | 1   | -2  | 8   | 5   | 9    | 8   |
| 80% Exceedance                              | 2   | 3   | 4   | 7   | -1  | -3  | 0   | -8  | 2   | 3   | 7    | 7   |
| 90% Exceedance                              | 2   | -1  | -3  | 1   | -1  | -10 | 0   | 3   | 0   | 5   | 2    | 0   |
| Full Simulation Period Average <sup>a</sup> | 5   | 3   | -6  | 0   | 4   | 41  | 13  | 1   | -4  | -7  | -8   | -4  |
| Wet Water Years (28%)                       | 0   | 1   | -3  | 0   | -3  | 6   | 2   | 0   | 2   | 6   | 5    | 4   |
| Above Normal Years (14%)                    | 0   | -1  | -1  | 5   | 2   | 33  | 16  | 2   | 3   | 3   | 6    | 7   |
| Below Normal Years (18%)                    | 4   | -4  | -4  | 4   | 6   | 66  | 25  | 6   | 5   | 9   | 10   | 1   |
| Dry Water Years (24%)                       | 6   | 0   | -4  | -9  | -2  | 59  | 35  | 17  | 11  | 10  | 18   | 21  |
| Critical Water Years (16%)                  | 16  | 26  | -23 | 6   | 23  | 54  | -18 | -27 | -54 | -80 | -102 | -67 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-16-4a. Jones Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 626 | 726 | 765 | 773 | 720 | 658 | 600 | 520 | 511 | 533 | 569 | 586 |
| 20% Exceedance                              | 613 | 688 | 746 | 733 | 662 | 615 | 569 | 485 | 397 | 393 | 451 | 529 |
| 30% Exceedance                              | 592 | 637 | 726 | 708 | 605 | 592 | 546 | 468 | 383 | 372 | 414 | 502 |
| 40% Exceedance                              | 585 | 609 | 715 | 654 | 578 | 574 | 535 | 460 | 374 | 360 | 397 | 490 |
| 50% Exceedance                              | 561 | 571 | 680 | 602 | 543 | 554 | 518 | 444 | 370 | 354 | 377 | 458 |
| 60% Exceedance                              | 414 | 430 | 646 | 562 | 517 | 507 | 429 | 397 | 361 | 345 | 356 | 373 |
| 70% Exceedance                              | 386 | 397 | 583 | 505 | 473 | 407 | 360 | 352 | 352 | 338 | 342 | 358 |
| 80% Exceedance                              | 369 | 381 | 517 | 444 | 352 | 358 | 307 | 271 | 336 | 329 | 332 | 353 |
| 90% Exceedance                              | 353 | 372 | 426 | 312 | 209 | 249 | 192 | 124 | 265 | 318 | 322 | 347 |
| Full Simulation Period Average <sup>a</sup> | 502 | 533 | 630 | 579 | 516 | 493 | 445 | 387 | 370 | 379 | 403 | 450 |
| Wet Water Years (28%)                       | 363 | 388 | 533 | 437 | 360 | 317 | 260 | 222 | 285 | 343 | 337 | 350 |
| Above Normal Years (14%)                    | 397 | 390 | 632 | 592 | 501 | 469 | 427 | 387 | 355 | 340 | 331 | 355 |
| Below Normal Years (18%)                    | 572 | 594 | 641 | 605 | 528 | 538 | 473 | 414 | 365 | 351 | 389 | 494 |
| Dry Water Years (24%)                       | 594 | 623 | 650 | 646 | 606 | 575 | 542 | 463 | 373 | 357 | 419 | 486 |
| Critical Water Years (16%)                  | 633 | 731 | 766 | 685 | 652 | 647 | 609 | 534 | 530 | 538 | 571 | 601 |

**Table F.2.5-16-4b. Jones Pumping Plant South Delta Exports Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 631 | 734 | 765 | 776 | 720 | 665 | 599 | 517 | 486 | 534 | 570 | 583 |
| 20% Exceedance                              | 615 | 691 | 743 | 722 | 663 | 623 | 559 | 470 | 410 | 402 | 443 | 524 |
| 30% Exceedance                              | 601 | 641 | 724 | 706 | 621 | 591 | 543 | 461 | 387 | 384 | 421 | 506 |
| 40% Exceedance                              | 586 | 592 | 708 | 667 | 579 | 577 | 532 | 453 | 379 | 367 | 406 | 494 |
| 50% Exceedance                              | 559 | 562 | 669 | 608 | 552 | 557 | 512 | 428 | 372 | 354 | 390 | 472 |
| 60% Exceedance                              | 421 | 428 | 641 | 567 | 521 | 501 | 428 | 388 | 365 | 347 | 363 | 386 |
| 70% Exceedance                              | 388 | 401 | 572 | 509 | 480 | 403 | 360 | 339 | 353 | 339 | 349 | 367 |
| 80% Exceedance                              | 370 | 380 | 520 | 451 | 351 | 353 | 308 | 262 | 332 | 330 | 342 | 361 |
| 90% Exceedance                              | 358 | 371 | 419 | 312 | 208 | 238 | 195 | 127 | 264 | 320 | 328 | 347 |
| Full Simulation Period Average <sup>a</sup> | 504 | 534 | 626 | 582 | 517 | 494 | 443 | 380 | 372 | 381 | 408 | 454 |
| Wet Water Years (28%)                       | 364 | 388 | 529 | 434 | 357 | 314 | 260 | 220 | 286 | 347 | 344 | 355 |
| Above Normal Years (14%)                    | 400 | 388 | 627 | 596 | 502 | 467 | 423 | 372 | 355 | 336 | 339 | 368 |
| Below Normal Years (18%)                    | 577 | 587 | 637 | 603 | 531 | 539 | 474 | 405 | 368 | 355 | 398 | 495 |
| Dry Water Years (24%)                       | 600 | 627 | 651 | 654 | 611 | 578 | 540 | 456 | 382 | 366 | 430 | 498 |
| Critical Water Years (16%)                  | 630 | 743 | 752 | 698 | 654 | 657 | 602 | 526 | 527 | 533 | 560 | 593 |

**Table F.2.5-16-4c. Jones Pumping Plant South Delta Exports Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 5   | 7   | 0   | 3   | 0   | 7   | 0   | -3  | -25 | 1   | 1   | -3  |
| 20% Exceedance                              | 2   | 3   | -3  | -11 | 1   | 7   | -11 | -15 | 13  | 10  | -8  | -5  |
| 30% Exceedance                              | 8   | 5   | -2  | -3  | 15  | 0   | -3  | -7  | 4   | 12  | 8   | 4   |
| 40% Exceedance                              | 1   | -17 | -6  | 13  | 1   | 3   | -3  | -7  | 4   | 7   | 9   | 3   |
| 50% Exceedance                              | -2  | -8  | -11 | 6   | 10  | 3   | -5  | -17 | 2   | 0   | 13  | 14  |
| 60% Exceedance                              | 8   | -2  | -6  | 5   | 4   | -6  | -1  | -9  | 3   | 2   | 7   | 13  |
| 70% Exceedance                              | 1   | 4   | -11 | 5   | 7   | -5  | 0   | -13 | 1   | 1   | 7   | 9   |
| 80% Exceedance                              | 2   | -1  | 3   | 7   | -1  | -4  | 1   | -9  | -3  | 2   | 10  | 8   |
| 90% Exceedance                              | 5   | -1  | -6  | 1   | -1  | -10 | 3   | 3   | -1  | 2   | 6   | 0   |
| Full Simulation Period Average <sup>a</sup> | 3   | 1   | -5  | 3   | 1   | 2   | -2  | -7  | 2   | 3   | 5   | 5   |
| Wet Water Years (28%)                       | 1   | 0   | -4  | -3  | -4  | -3  | 0   | -2  | 1   | 4   | 6   | 4   |
| Above Normal Years (14%)                    | 3   | -2  | -5  | 4   | 1   | -2  | -4  | -15 | 0   | -5  | 8   | 13  |
| Below Normal Years (18%)                    | 5   | -7  | -5  | -2  | 2   | 2   | 1   | -8  | 3   | 4   | 9   | 1   |
| Dry Water Years (24%)                       | 6   | 4   | 1   | 8   | 5   | 3   | -2  | -7  | 9   | 9   | 11  | 12  |
| Critical Water Years (16%)                  | -4  | 11  | -15 | 13  | 3   | 10  | -6  | -8  | -4  | -5  | -11 | -8  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-16-5a. Jones Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 626 | 726 | 765 | 773 | 720 | 658 | 600 | 520 | 511 | 533 | 569 | 586 |
| 20% Exceedance                              | 613 | 688 | 746 | 733 | 662 | 615 | 569 | 485 | 397 | 393 | 451 | 529 |
| 30% Exceedance                              | 592 | 637 | 726 | 708 | 605 | 592 | 546 | 468 | 383 | 372 | 414 | 502 |
| 40% Exceedance                              | 585 | 609 | 715 | 654 | 578 | 574 | 535 | 460 | 374 | 360 | 397 | 490 |
| 50% Exceedance                              | 561 | 571 | 680 | 602 | 543 | 554 | 518 | 444 | 370 | 354 | 377 | 458 |
| 60% Exceedance                              | 414 | 430 | 646 | 562 | 517 | 507 | 429 | 397 | 361 | 345 | 356 | 373 |
| 70% Exceedance                              | 386 | 397 | 583 | 505 | 473 | 407 | 360 | 352 | 352 | 338 | 342 | 358 |
| 80% Exceedance                              | 369 | 381 | 517 | 444 | 352 | 358 | 307 | 271 | 336 | 329 | 332 | 353 |
| 90% Exceedance                              | 353 | 372 | 426 | 312 | 209 | 249 | 192 | 124 | 265 | 318 | 322 | 347 |
| Full Simulation Period Average <sup>a</sup> | 502 | 533 | 630 | 579 | 516 | 493 | 445 | 387 | 370 | 379 | 403 | 450 |
| Wet Water Years (28%)                       | 363 | 388 | 533 | 437 | 360 | 317 | 260 | 222 | 285 | 343 | 337 | 350 |
| Above Normal Years (14%)                    | 397 | 390 | 632 | 592 | 501 | 469 | 427 | 387 | 355 | 340 | 331 | 355 |
| Below Normal Years (18%)                    | 572 | 594 | 641 | 605 | 528 | 538 | 473 | 414 | 365 | 351 | 389 | 494 |
| Dry Water Years (24%)                       | 594 | 623 | 650 | 646 | 606 | 575 | 542 | 463 | 373 | 357 | 419 | 486 |
| Critical Water Years (16%)                  | 633 | 731 | 766 | 685 | 652 | 647 | 609 | 534 | 530 | 538 | 571 | 601 |

**Table F.2.5-16-5b. Jones Pumping Plant South Delta Exports Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 623 | 650 | 698 | 759 | 783 | 780 | 790 | 720 | 654 | 623 | 614 | 616 |
| 20% Exceedance                              | 607 | 637 | 691 | 738 | 752 | 757 | 767 | 713 | 647 | 610 | 603 | 599 |
| 30% Exceedance                              | 598 | 631 | 678 | 718 | 742 | 741 | 761 | 702 | 633 | 602 | 592 | 589 |
| 40% Exceedance                              | 590 | 624 | 670 | 706 | 727 | 730 | 745 | 685 | 607 | 584 | 579 | 578 |
| 50% Exceedance                              | 582 | 616 | 661 | 699 | 709 | 710 | 712 | 651 | 573 | 550 | 565 | 567 |
| 60% Exceedance                              | 571 | 609 | 657 | 683 | 692 | 661 | 598 | 539 | 456 | 490 | 531 | 558 |
| 70% Exceedance                              | 558 | 589 | 629 | 651 | 636 | 621 | 516 | 420 | 392 | 447 | 504 | 545 |
| 80% Exceedance                              | 543 | 563 | 577 | 604 | 593 | 479 | 456 | 383 | 332 | 389 | 465 | 520 |
| 90% Exceedance                              | 446 | 481 | 541 | 544 | 477 | 387 | 358 | 345 | 284 | 289 | 388 | 439 |
| Full Simulation Period Average <sup>a</sup> | 564 | 593 | 639 | 667 | 665 | 645 | 623 | 560 | 502 | 501 | 530 | 550 |
| Wet Water Years (28%)                       | 497 | 524 | 572 | 620 | 581 | 521 | 448 | 371 | 321 | 352 | 427 | 473 |
| Above Normal Years (14%)                    | 568 | 595 | 642 | 687 | 681 | 640 | 589 | 521 | 473 | 480 | 518 | 549 |
| Below Normal Years (18%)                    | 575 | 608 | 659 | 657 | 664 | 649 | 642 | 582 | 528 | 524 | 545 | 561 |
| Dry Water Years (24%)                       | 590 | 624 | 666 | 693 | 711 | 721 | 737 | 682 | 615 | 592 | 588 | 584 |
| Critical Water Years (16%)                  | 631 | 655 | 692 | 705 | 730 | 750 | 769 | 715 | 647 | 616 | 613 | 621 |

**Table F.2.5-16-5c. Jones Pumping Plant South Delta Exports Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -3  | -76 | -67 | -13 | 64  | 122 | 190 | 200 | 143 | 90  | 45  | 30  |
| 20% Exceedance                              | -6  | -51 | -54 | 5   | 90  | 142 | 198 | 228 | 249 | 217 | 152 | 70  |
| 30% Exceedance                              | 6   | -6  | -47 | 10  | 137 | 149 | 215 | 234 | 250 | 230 | 178 | 87  |
| 40% Exceedance                              | 4   | 14  | -45 | 52  | 149 | 156 | 210 | 224 | 233 | 224 | 183 | 88  |
| 50% Exceedance                              | 21  | 46  | -19 | 97  | 167 | 156 | 195 | 207 | 203 | 196 | 188 | 109 |
| 60% Exceedance                              | 158 | 179 | 11  | 121 | 175 | 154 | 169 | 142 | 94  | 145 | 174 | 185 |
| 70% Exceedance                              | 172 | 191 | 46  | 147 | 163 | 214 | 156 | 69  | 40  | 109 | 162 | 187 |
| 80% Exceedance                              | 174 | 181 | 59  | 161 | 240 | 122 | 148 | 112 | -4  | 60  | 133 | 167 |
| 90% Exceedance                              | 93  | 109 | 115 | 232 | 267 | 138 | 166 | 221 | 19  | -29 | 66  | 92  |
| Full Simulation Period Average <sup>a</sup> | 62  | 60  | 8   | 88  | 149 | 153 | 178 | 172 | 133 | 122 | 127 | 100 |
| Wet Water Years (28%)                       | 133 | 136 | 39  | 184 | 220 | 204 | 188 | 149 | 37  | 9   | 90  | 123 |
| Above Normal Years (14%)                    | 172 | 205 | 10  | 94  | 180 | 171 | 162 | 134 | 118 | 140 | 187 | 195 |
| Below Normal Years (18%)                    | 4   | 14  | 17  | 52  | 136 | 112 | 168 | 169 | 163 | 173 | 156 | 67  |
| Dry Water Years (24%)                       | -4  | 1   | 16  | 47  | 104 | 147 | 195 | 219 | 242 | 235 | 169 | 98  |
| Critical Water Years (16%)                  | -3  | -76 | -74 | 20  | 78  | 103 | 161 | 181 | 116 | 78  | 42  | 20  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-16-6a. Jones Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 789 | 772 | 783 | 802 | 796 | 780 | 781 | 718 | 661 | 630 | 653 | 725 |
| 20% Exceedance                              | 720 | 726 | 748 | 767 | 759 | 741 | 748 | 687 | 631 | 609 | 616 | 671 |
| 30% Exceedance                              | 660 | 685 | 721 | 756 | 744 | 726 | 712 | 655 | 607 | 590 | 599 | 630 |
| 40% Exceedance                              | 630 | 667 | 700 | 731 | 720 | 703 | 700 | 634 | 581 | 564 | 574 | 604 |
| 50% Exceedance                              | 603 | 646 | 694 | 712 | 704 | 679 | 662 | 569 | 511 | 513 | 539 | 571 |
| 60% Exceedance                              | 594 | 637 | 681 | 693 | 683 | 648 | 573 | 451 | 425 | 457 | 516 | 557 |
| 70% Exceedance                              | 575 | 617 | 657 | 678 | 659 | 608 | 485 | 392 | 372 | 425 | 490 | 537 |
| 80% Exceedance                              | 547 | 581 | 631 | 658 | 613 | 489 | 416 | 356 | 296 | 365 | 445 | 505 |
| 90% Exceedance                              | 509 | 557 | 609 | 600 | 467 | 386 | 356 | 317 | 260 | 266 | 372 | 461 |
| Full Simulation Period Average <sup>a</sup> | 642 | 665 | 692 | 699 | 672 | 633 | 594 | 527 | 477 | 483 | 529 | 596 |
| Wet Water Years (28%)                       | 536 | 578 | 624 | 635 | 565 | 488 | 411 | 338 | 294 | 327 | 408 | 480 |
| Above Normal Years (14%)                    | 579 | 617 | 667 | 724 | 688 | 623 | 546 | 471 | 428 | 449 | 499 | 545 |
| Below Normal Years (18%)                    | 634 | 661 | 697 | 695 | 681 | 648 | 613 | 545 | 499 | 505 | 539 | 588 |
| Dry Water Years (24%)                       | 687 | 702 | 716 | 724 | 723 | 713 | 705 | 644 | 585 | 571 | 588 | 638 |
| Critical Water Years (16%)                  | 842 | 817 | 799 | 753 | 759 | 760 | 766 | 714 | 655 | 627 | 668 | 787 |

**Table F.2.5-16-6b. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 633 | 738 | 759 | 777 | 725 | 665 | 583 | 510 | 470 | 450 | 491 | 536 |
| 20% Exceedance                              | 617 | 705 | 735 | 740 | 663 | 628 | 557 | 470 | 411 | 401 | 435 | 521 |
| 30% Exceedance                              | 605 | 641 | 721 | 704 | 616 | 597 | 543 | 461 | 387 | 383 | 418 | 501 |
| 40% Exceedance                              | 586 | 601 | 704 | 652 | 575 | 579 | 532 | 454 | 378 | 367 | 404 | 490 |
| 50% Exceedance                              | 565 | 562 | 670 | 609 | 552 | 557 | 513 | 427 | 374 | 354 | 383 | 463 |
| 60% Exceedance                              | 421 | 427 | 638 | 563 | 521 | 501 | 438 | 388 | 364 | 346 | 363 | 383 |
| 70% Exceedance                              | 388 | 401 | 571 | 508 | 480 | 403 | 360 | 344 | 353 | 338 | 350 | 367 |
| 80% Exceedance                              | 371 | 381 | 520 | 451 | 351 | 353 | 308 | 262 | 333 | 330 | 342 | 361 |
| 90% Exceedance                              | 356 | 371 | 420 | 312 | 208 | 238 | 195 | 127 | 264 | 320 | 328 | 347 |
| Full Simulation Period Average <sup>a</sup> | 505 | 536 | 623 | 582 | 518 | 498 | 440 | 377 | 365 | 371 | 394 | 444 |
| Wet Water Years (28%)                       | 364 | 388 | 529 | 434 | 357 | 315 | 261 | 220 | 286 | 347 | 343 | 354 |
| Above Normal Years (14%)                    | 399 | 387 | 626 | 597 | 503 | 468 | 423 | 372 | 355 | 335 | 340 | 367 |
| Below Normal Years (18%)                    | 578 | 590 | 635 | 609 | 532 | 535 | 473 | 407 | 369 | 356 | 396 | 489 |
| Dry Water Years (24%)                       | 600 | 627 | 650 | 649 | 610 | 578 | 540 | 456 | 381 | 366 | 429 | 498 |
| Critical Water Years (16%)                  | 635 | 748 | 741 | 695 | 657 | 682 | 584 | 506 | 483 | 468 | 474 | 534 |

**Table F.2.5-16-6c. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -156 | -34  | -24  | -25  | -72  | -115 | -198 | -207 | -191 | -180 | -163 | -189 |
| 20% Exceedance                              | -103 | -21  | -14  | -26  | -96  | -114 | -190 | -217 | -220 | -209 | -180 | -150 |
| 30% Exceedance                              | -55  | -43  | 0    | -53  | -128 | -129 | -169 | -194 | -220 | -207 | -182 | -129 |
| 40% Exceedance                              | -44  | -66  | 4    | -80  | -145 | -124 | -168 | -180 | -203 | -196 | -170 | -114 |
| 50% Exceedance                              | -39  | -84  | -24  | -103 | -151 | -122 | -148 | -141 | -137 | -159 | -155 | -108 |
| 60% Exceedance                              | -172 | -210 | -42  | -129 | -162 | -147 | -135 | -62  | -61  | -111 | -153 | -174 |
| 70% Exceedance                              | -187 | -216 | -86  | -170 | -178 | -205 | -125 | -48  | -18  | -87  | -140 | -170 |
| 80% Exceedance                              | -176 | -201 | -110 | -207 | -262 | -136 | -108 | -94  | 37   | -35  | -103 | -145 |
| 90% Exceedance                              | -153 | -186 | -190 | -288 | -258 | -148 | -161 | -190 | 4    | 54   | -44  | -114 |
| Full Simulation Period Average <sup>a</sup> | -137 | -129 | -69  | -117 | -155 | -135 | -153 | -150 | -112 | -112 | -135 | -152 |
| Wet Water Years (28%)                       | -172 | -191 | -95  | -201 | -208 | -173 | -150 | -117 | -8   | 20   | -64  | -126 |
| Above Normal Years (14%)                    | -180 | -230 | -41  | -127 | -186 | -155 | -123 | -98  | -73  | -113 | -160 | -178 |
| Below Normal Years (18%)                    | -56  | -71  | -62  | -86  | -149 | -113 | -139 | -138 | -129 | -149 | -144 | -99  |
| Dry Water Years (24%)                       | -88  | -75  | -67  | -75  | -114 | -135 | -166 | -187 | -203 | -206 | -159 | -140 |
| Critical Water Years (16%)                  | -207 | -69  | -59  | -57  | -103 | -78  | -182 | -209 | -171 | -158 | -193 | -253 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-16-7a. Jones Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 789 | 772 | 783 | 802 | 796 | 780 | 781 | 718 | 661 | 630 | 653 | 725 |
| 20% Exceedance                              | 720 | 726 | 748 | 767 | 759 | 741 | 748 | 687 | 631 | 609 | 616 | 671 |
| 30% Exceedance                              | 660 | 685 | 721 | 756 | 744 | 726 | 712 | 655 | 607 | 590 | 599 | 630 |
| 40% Exceedance                              | 630 | 667 | 700 | 731 | 720 | 703 | 700 | 634 | 581 | 564 | 574 | 604 |
| 50% Exceedance                              | 603 | 646 | 694 | 712 | 704 | 679 | 662 | 569 | 511 | 513 | 539 | 571 |
| 60% Exceedance                              | 594 | 637 | 681 | 693 | 683 | 648 | 573 | 451 | 425 | 457 | 516 | 557 |
| 70% Exceedance                              | 575 | 617 | 657 | 678 | 659 | 608 | 485 | 392 | 372 | 425 | 490 | 537 |
| 80% Exceedance                              | 547 | 581 | 631 | 658 | 613 | 489 | 416 | 356 | 296 | 365 | 445 | 505 |
| 90% Exceedance                              | 509 | 557 | 609 | 600 | 467 | 386 | 356 | 317 | 260 | 266 | 372 | 461 |
| Full Simulation Period Average <sup>a</sup> | 642 | 665 | 692 | 699 | 672 | 633 | 594 | 527 | 477 | 483 | 529 | 596 |
| Wet Water Years (28%)                       | 536 | 578 | 624 | 635 | 565 | 488 | 411 | 338 | 294 | 327 | 408 | 480 |
| Above Normal Years (14%)                    | 579 | 617 | 667 | 724 | 688 | 623 | 546 | 471 | 428 | 449 | 499 | 545 |
| Below Normal Years (18%)                    | 634 | 661 | 697 | 695 | 681 | 648 | 613 | 545 | 499 | 505 | 539 | 588 |
| Dry Water Years (24%)                       | 687 | 702 | 716 | 724 | 723 | 713 | 705 | 644 | 585 | 571 | 588 | 638 |
| Critical Water Years (16%)                  | 842 | 817 | 799 | 753 | 759 | 760 | 766 | 714 | 655 | 627 | 668 | 787 |

**Table F.2.5-16-7b. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 637 | 740 | 765 | 766 | 715 | 736 | 619 | 522 | 475 | 452 | 491 | 540 |
| 20% Exceedance                              | 616 | 706 | 739 | 738 | 662 | 705 | 594 | 497 | 410 | 396 | 442 | 528 |
| 30% Exceedance                              | 602 | 649 | 722 | 691 | 617 | 662 | 575 | 481 | 392 | 383 | 420 | 508 |
| 40% Exceedance                              | 586 | 599 | 703 | 650 | 576 | 640 | 562 | 471 | 386 | 369 | 408 | 493 |
| 50% Exceedance                              | 564 | 571 | 670 | 611 | 555 | 592 | 531 | 448 | 378 | 356 | 392 | 472 |
| 60% Exceedance                              | 419 | 429 | 639 | 564 | 521 | 521 | 446 | 401 | 370 | 349 | 363 | 382 |
| 70% Exceedance                              | 384 | 403 | 572 | 509 | 481 | 413 | 362 | 351 | 361 | 341 | 351 | 367 |
| 80% Exceedance                              | 372 | 385 | 521 | 451 | 351 | 355 | 307 | 264 | 338 | 330 | 342 | 360 |
| 90% Exceedance                              | 356 | 371 | 421 | 312 | 208 | 238 | 192 | 127 | 264 | 320 | 326 | 347 |
| Full Simulation Period Average <sup>a</sup> | 507 | 537 | 625 | 580 | 520 | 533 | 458 | 388 | 368 | 372 | 396 | 447 |
| Wet Water Years (28%)                       | 364 | 388 | 530 | 435 | 357 | 323 | 263 | 222 | 286 | 348 | 343 | 354 |
| Above Normal Years (14%)                    | 398 | 389 | 630 | 598 | 503 | 502 | 443 | 389 | 360 | 342 | 341 | 365 |
| Below Normal Years (18%)                    | 579 | 591 | 638 | 611 | 534 | 603 | 500 | 420 | 373 | 357 | 400 | 495 |
| Dry Water Years (24%)                       | 601 | 630 | 648 | 642 | 611 | 633 | 576 | 478 | 387 | 365 | 435 | 506 |
| Critical Water Years (16%)                  | 644 | 752 | 746 | 688 | 669 | 698 | 590 | 508 | 487 | 468 | 475 | 538 |

**Table F.2.5-16-7c. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -152 | -32  | -18  | -35  | -82  | -44  | -162 | -196 | -186 | -177 | -162 | -185 |
| 20% Exceedance                              | -104 | -20  | -10  | -29  | -97  | -36  | -153 | -190 | -221 | -213 | -174 | -142 |
| 30% Exceedance                              | -58  | -36  | 1    | -65  | -128 | -63  | -138 | -174 | -215 | -207 | -179 | -122 |
| 40% Exceedance                              | -44  | -68  | 3    | -82  | -144 | -63  | -138 | -163 | -196 | -194 | -166 | -111 |
| 50% Exceedance                              | -40  | -76  | -24  | -101 | -149 | -87  | -131 | -120 | -133 | -157 | -146 | -99  |
| 60% Exceedance                              | -175 | -208 | -42  | -129 | -162 | -127 | -127 | -50  | -55  | -108 | -153 | -176 |
| 70% Exceedance                              | -191 | -215 | -85  | -168 | -177 | -194 | -123 | -41  | -11  | -85  | -139 | -170 |
| 80% Exceedance                              | -175 | -197 | -109 | -207 | -262 | -134 | -109 | -93  | 43   | -35  | -103 | -145 |
| 90% Exceedance                              | -153 | -186 | -189 | -288 | -258 | -148 | -164 | -190 | 4    | 55   | -46  | -114 |
| Full Simulation Period Average <sup>a</sup> | -136 | -127 | -67  | -119 | -152 | -100 | -135 | -139 | -109 | -111 | -133 | -149 |
| Wet Water Years (28%)                       | -172 | -190 | -94  | -200 | -208 | -165 | -148 | -116 | -8   | 21   | -65  | -126 |
| Above Normal Years (14%)                    | -181 | -228 | -37  | -127 | -186 | -121 | -103 | -82  | -69  | -107 | -158 | -181 |
| Below Normal Years (18%)                    | -55  | -70  | -60  | -84  | -147 | -44  | -113 | -125 | -125 | -148 | -139 | -92  |
| Dry Water Years (24%)                       | -86  | -73  | -69  | -82  | -113 | -81  | -129 | -166 | -198 | -206 | -154 | -132 |
| Critical Water Years (16%)                  | -198 | -66  | -53  | -64  | -90  | -61  | -176 | -206 | -168 | -159 | -192 | -250 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-16-8a. Jones Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 789 | 772 | 783 | 802 | 796 | 780 | 781 | 718 | 661 | 630 | 653 | 725 |
| 20% Exceedance                              | 720 | 726 | 748 | 767 | 759 | 741 | 748 | 687 | 631 | 609 | 616 | 671 |
| 30% Exceedance                              | 660 | 685 | 721 | 756 | 744 | 726 | 712 | 655 | 607 | 590 | 599 | 630 |
| 40% Exceedance                              | 630 | 667 | 700 | 731 | 720 | 703 | 700 | 634 | 581 | 564 | 574 | 604 |
| 50% Exceedance                              | 603 | 646 | 694 | 712 | 704 | 679 | 662 | 569 | 511 | 513 | 539 | 571 |
| 60% Exceedance                              | 594 | 637 | 681 | 693 | 683 | 648 | 573 | 451 | 425 | 457 | 516 | 557 |
| 70% Exceedance                              | 575 | 617 | 657 | 678 | 659 | 608 | 485 | 392 | 372 | 425 | 490 | 537 |
| 80% Exceedance                              | 547 | 581 | 631 | 658 | 613 | 489 | 416 | 356 | 296 | 365 | 445 | 505 |
| 90% Exceedance                              | 509 | 557 | 609 | 600 | 467 | 386 | 356 | 317 | 260 | 266 | 372 | 461 |
| Full Simulation Period Average <sup>a</sup> | 642 | 665 | 692 | 699 | 672 | 633 | 594 | 527 | 477 | 483 | 529 | 596 |
| Wet Water Years (28%)                       | 536 | 578 | 624 | 635 | 565 | 488 | 411 | 338 | 294 | 327 | 408 | 480 |
| Above Normal Years (14%)                    | 579 | 617 | 667 | 724 | 688 | 623 | 546 | 471 | 428 | 449 | 499 | 545 |
| Below Normal Years (18%)                    | 634 | 661 | 697 | 695 | 681 | 648 | 613 | 545 | 499 | 505 | 539 | 588 |
| Dry Water Years (24%)                       | 687 | 702 | 716 | 724 | 723 | 713 | 705 | 644 | 585 | 571 | 588 | 638 |
| Critical Water Years (16%)                  | 842 | 817 | 799 | 753 | 759 | 760 | 766 | 714 | 655 | 627 | 668 | 787 |

**Table F.2.5-16-8b. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 637 | 737 | 765 | 774 | 713 | 737 | 619 | 521 | 471 | 440 | 482 | 540 |
| 20% Exceedance                              | 613 | 682 | 741 | 739 | 653 | 705 | 594 | 500 | 406 | 401 | 439 | 527 |
| 30% Exceedance                              | 602 | 645 | 723 | 690 | 616 | 662 | 577 | 482 | 389 | 381 | 418 | 511 |
| 40% Exceedance                              | 586 | 593 | 701 | 641 | 577 | 639 | 562 | 472 | 382 | 375 | 406 | 494 |
| 50% Exceedance                              | 565 | 573 | 667 | 608 | 552 | 594 | 530 | 447 | 375 | 357 | 391 | 472 |
| 60% Exceedance                              | 414 | 427 | 639 | 568 | 524 | 520 | 446 | 400 | 368 | 348 | 364 | 381 |
| 70% Exceedance                              | 386 | 401 | 573 | 509 | 482 | 413 | 362 | 350 | 360 | 342 | 351 | 366 |
| 80% Exceedance                              | 371 | 384 | 522 | 451 | 351 | 355 | 307 | 264 | 337 | 332 | 339 | 359 |
| 90% Exceedance                              | 355 | 371 | 423 | 312 | 208 | 239 | 193 | 127 | 264 | 324 | 324 | 347 |
| Full Simulation Period Average <sup>a</sup> | 506 | 536 | 624 | 579 | 520 | 533 | 458 | 388 | 365 | 372 | 395 | 446 |
| Wet Water Years (28%)                       | 364 | 388 | 530 | 437 | 357 | 322 | 263 | 222 | 286 | 349 | 343 | 354 |
| Above Normal Years (14%)                    | 397 | 389 | 631 | 597 | 503 | 502 | 443 | 389 | 358 | 343 | 337 | 362 |
| Below Normal Years (18%)                    | 576 | 590 | 638 | 608 | 534 | 604 | 499 | 419 | 370 | 361 | 399 | 495 |
| Dry Water Years (24%)                       | 599 | 623 | 646 | 637 | 604 | 634 | 576 | 480 | 384 | 367 | 437 | 507 |
| Critical Water Years (16%)                  | 649 | 757 | 743 | 691 | 675 | 701 | 590 | 507 | 477 | 457 | 469 | 534 |

**Table F.2.5-16-8c. Jones Pumping Plant South Delta Exports Salinity, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -152 | -35  | -18  | -28  | -83  | -43  | -162 | -197 | -190 | -190 | -172 | -185 |
| 20% Exceedance                              | -107 | -44  | -8   | -28  | -107 | -36  | -154 | -187 | -226 | -209 | -176 | -144 |
| 30% Exceedance                              | -58  | -40  | 2    | -67  | -129 | -63  | -135 | -173 | -218 | -209 | -181 | -118 |
| 40% Exceedance                              | -44  | -74  | 1    | -90  | -143 | -64  | -138 | -162 | -199 | -189 | -168 | -110 |
| 50% Exceedance                              | -38  | -73  | -27  | -104 | -152 | -85  | -131 | -121 | -136 | -156 | -148 | -99  |
| 60% Exceedance                              | -180 | -210 | -42  | -125 | -159 | -128 | -127 | -51  | -57  | -110 | -151 | -176 |
| 70% Exceedance                              | -189 | -217 | -83  | -169 | -177 | -194 | -123 | -41  | -12  | -83  | -139 | -172 |
| 80% Exceedance                              | -176 | -198 | -109 | -207 | -262 | -134 | -109 | -93  | 42   | -34  | -106 | -146 |
| 90% Exceedance                              | -154 | -186 | -187 | -288 | -258 | -148 | -164 | -190 | 4    | 58   | -48  | -114 |
| Full Simulation Period Average <sup>a</sup> | -136 | -129 | -68  | -120 | -153 | -100 | -136 | -139 | -112 | -111 | -134 | -150 |
| Wet Water Years (28%)                       | -172 | -190 | -93  | -198 | -208 | -166 | -148 | -116 | -8   | 22   | -65  | -127 |
| Above Normal Years (14%)                    | -183 | -229 | -36  | -127 | -186 | -121 | -103 | -82  | -70  | -106 | -162 | -184 |
| Below Normal Years (18%)                    | -58  | -71  | -60  | -87  | -147 | -44  | -114 | -125 | -128 | -145 | -140 | -92  |
| Dry Water Years (24%)                       | -88  | -80  | -70  | -87  | -119 | -79  | -129 | -164 | -201 | -204 | -151 | -132 |
| Critical Water Years (16%)                  | -193 | -61  | -56  | -62  | -85  | -58  | -175 | -208 | -178 | -169 | -198 | -253 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-16-9a. Jones Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 789 | 772 | 783 | 802 | 796 | 780 | 781 | 718 | 661 | 630 | 653 | 725 |
| 20% Exceedance                              | 720 | 726 | 748 | 767 | 759 | 741 | 748 | 687 | 631 | 609 | 616 | 671 |
| 30% Exceedance                              | 660 | 685 | 721 | 756 | 744 | 726 | 712 | 655 | 607 | 590 | 599 | 630 |
| 40% Exceedance                              | 630 | 667 | 700 | 731 | 720 | 703 | 700 | 634 | 581 | 564 | 574 | 604 |
| 50% Exceedance                              | 603 | 646 | 694 | 712 | 704 | 679 | 662 | 569 | 511 | 513 | 539 | 571 |
| 60% Exceedance                              | 594 | 637 | 681 | 693 | 683 | 648 | 573 | 451 | 425 | 457 | 516 | 557 |
| 70% Exceedance                              | 575 | 617 | 657 | 678 | 659 | 608 | 485 | 392 | 372 | 425 | 490 | 537 |
| 80% Exceedance                              | 547 | 581 | 631 | 658 | 613 | 489 | 416 | 356 | 296 | 365 | 445 | 505 |
| 90% Exceedance                              | 509 | 557 | 609 | 600 | 467 | 386 | 356 | 317 | 260 | 266 | 372 | 461 |
| Full Simulation Period Average <sup>a</sup> | 642 | 665 | 692 | 699 | 672 | 633 | 594 | 527 | 477 | 483 | 529 | 596 |
| Wet Water Years (28%)                       | 536 | 578 | 624 | 635 | 565 | 488 | 411 | 338 | 294 | 327 | 408 | 480 |
| Above Normal Years (14%)                    | 579 | 617 | 667 | 724 | 688 | 623 | 546 | 471 | 428 | 449 | 499 | 545 |
| Below Normal Years (18%)                    | 634 | 661 | 697 | 695 | 681 | 648 | 613 | 545 | 499 | 505 | 539 | 588 |
| Dry Water Years (24%)                       | 687 | 702 | 716 | 724 | 723 | 713 | 705 | 644 | 585 | 571 | 588 | 638 |
| Critical Water Years (16%)                  | 842 | 817 | 799 | 753 | 759 | 760 | 766 | 714 | 655 | 627 | 668 | 787 |

**Table F.2.5-16-9b. Jones Pumping Plant South Delta Exports Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 631 | 734 | 765 | 776 | 720 | 665 | 599 | 517 | 486 | 534 | 570 | 583 |
| 20% Exceedance                              | 615 | 691 | 743 | 722 | 663 | 623 | 559 | 470 | 410 | 402 | 443 | 524 |
| 30% Exceedance                              | 601 | 641 | 724 | 706 | 621 | 591 | 543 | 461 | 387 | 384 | 421 | 506 |
| 40% Exceedance                              | 586 | 592 | 708 | 667 | 579 | 577 | 532 | 453 | 379 | 367 | 406 | 494 |
| 50% Exceedance                              | 559 | 562 | 669 | 608 | 552 | 557 | 512 | 428 | 372 | 354 | 390 | 472 |
| 60% Exceedance                              | 421 | 428 | 641 | 567 | 521 | 501 | 428 | 388 | 365 | 347 | 363 | 386 |
| 70% Exceedance                              | 388 | 401 | 572 | 509 | 480 | 403 | 360 | 339 | 353 | 339 | 349 | 367 |
| 80% Exceedance                              | 370 | 380 | 520 | 451 | 351 | 353 | 308 | 262 | 332 | 330 | 342 | 361 |
| 90% Exceedance                              | 358 | 371 | 419 | 312 | 208 | 238 | 195 | 127 | 264 | 320 | 328 | 347 |
| Full Simulation Period Average <sup>a</sup> | 504 | 534 | 626 | 582 | 517 | 494 | 443 | 380 | 372 | 381 | 408 | 454 |
| Wet Water Years (28%)                       | 364 | 388 | 529 | 434 | 357 | 314 | 260 | 220 | 286 | 347 | 344 | 355 |
| Above Normal Years (14%)                    | 400 | 388 | 627 | 596 | 502 | 467 | 423 | 372 | 355 | 336 | 339 | 368 |
| Below Normal Years (18%)                    | 577 | 587 | 637 | 603 | 531 | 539 | 474 | 405 | 368 | 355 | 398 | 495 |
| Dry Water Years (24%)                       | 600 | 627 | 651 | 654 | 611 | 578 | 540 | 456 | 382 | 366 | 430 | 498 |
| Critical Water Years (16%)                  | 630 | 743 | 752 | 698 | 654 | 657 | 602 | 526 | 527 | 533 | 560 | 593 |

**Table F.2.5-16-9c. Jones Pumping Plant South Delta Exports Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -158 | -38  | -17  | -26  | -76  | -115 | -182 | -201 | -175 | -96  | -84  | -142 |
| 20% Exceedance                              | -105 | -35  | -6   | -45  | -96  | -119 | -189 | -218 | -221 | -207 | -173 | -147 |
| 30% Exceedance                              | -59  | -43  | 3    | -51  | -124 | -134 | -169 | -194 | -220 | -205 | -178 | -124 |
| 40% Exceedance                              | -44  | -75  | 8    | -65  | -141 | -126 | -168 | -181 | -203 | -196 | -168 | -110 |
| 50% Exceedance                              | -44  | -84  | -25  | -104 | -151 | -122 | -149 | -141 | -138 | -159 | -148 | -99  |
| 60% Exceedance                              | -172 | -209 | -40  | -126 | -162 | -147 | -145 | -63  | -61  | -110 | -152 | -171 |
| 70% Exceedance                              | -188 | -216 | -85  | -168 | -178 | -205 | -125 | -53  | -18  | -87  | -141 | -170 |
| 80% Exceedance                              | -177 | -201 | -110 | -207 | -262 | -136 | -108 | -94  | 37   | -35  | -103 | -144 |
| 90% Exceedance                              | -151 | -186 | -190 | -288 | -258 | -148 | -161 | -190 | 4    | 54   | -44  | -114 |
| Full Simulation Period Average <sup>a</sup> | -138 | -131 | -66  | -116 | -155 | -139 | -150 | -147 | -105 | -102 | -121 | -142 |
| Wet Water Years (28%)                       | -172 | -191 | -95  | -201 | -209 | -174 | -151 | -118 | -8   | 20   | -64  | -126 |
| Above Normal Years (14%)                    | -180 | -229 | -40  | -128 | -187 | -156 | -123 | -98  | -73  | -113 | -161 | -178 |
| Below Normal Years (18%)                    | -57  | -75  | -61  | -93  | -150 | -108 | -138 | -140 | -130 | -151 | -141 | -93  |
| Dry Water Years (24%)                       | -88  | -75  | -66  | -71  | -112 | -135 | -166 | -187 | -203 | -205 | -158 | -140 |
| Critical Water Years (16%)                  | -212 | -75  | -48  | -55  | -105 | -102 | -164 | -189 | -128 | -94  | -107 | -194 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-16-10a. Jones Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 789 | 772 | 783 | 802 | 796 | 780 | 781 | 718 | 661 | 630 | 653 | 725 |
| 20% Exceedance                              | 720 | 726 | 748 | 767 | 759 | 741 | 748 | 687 | 631 | 609 | 616 | 671 |
| 30% Exceedance                              | 660 | 685 | 721 | 756 | 744 | 726 | 712 | 655 | 607 | 590 | 599 | 630 |
| 40% Exceedance                              | 630 | 667 | 700 | 731 | 720 | 703 | 700 | 634 | 581 | 564 | 574 | 604 |
| 50% Exceedance                              | 603 | 646 | 694 | 712 | 704 | 679 | 662 | 569 | 511 | 513 | 539 | 571 |
| 60% Exceedance                              | 594 | 637 | 681 | 693 | 683 | 648 | 573 | 451 | 425 | 457 | 516 | 557 |
| 70% Exceedance                              | 575 | 617 | 657 | 678 | 659 | 608 | 485 | 392 | 372 | 425 | 490 | 537 |
| 80% Exceedance                              | 547 | 581 | 631 | 658 | 613 | 489 | 416 | 356 | 296 | 365 | 445 | 505 |
| 90% Exceedance                              | 509 | 557 | 609 | 600 | 467 | 386 | 356 | 317 | 260 | 266 | 372 | 461 |
| Full Simulation Period Average <sup>a</sup> | 642 | 665 | 692 | 699 | 672 | 633 | 594 | 527 | 477 | 483 | 529 | 596 |
| Wet Water Years (28%)                       | 536 | 578 | 624 | 635 | 565 | 488 | 411 | 338 | 294 | 327 | 408 | 480 |
| Above Normal Years (14%)                    | 579 | 617 | 667 | 724 | 688 | 623 | 546 | 471 | 428 | 449 | 499 | 545 |
| Below Normal Years (18%)                    | 634 | 661 | 697 | 695 | 681 | 648 | 613 | 545 | 499 | 505 | 539 | 588 |
| Dry Water Years (24%)                       | 687 | 702 | 716 | 724 | 723 | 713 | 705 | 644 | 585 | 571 | 588 | 638 |
| Critical Water Years (16%)                  | 842 | 817 | 799 | 753 | 759 | 760 | 766 | 714 | 655 | 627 | 668 | 787 |

**Table F.2.5-16-10b. Jones Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 626 | 726 | 765 | 773 | 720 | 658 | 600 | 520 | 511 | 533 | 569 | 586 |
| 20% Exceedance                              | 613 | 688 | 746 | 733 | 662 | 615 | 569 | 485 | 397 | 393 | 451 | 529 |
| 30% Exceedance                              | 592 | 637 | 726 | 708 | 605 | 592 | 546 | 468 | 383 | 372 | 414 | 502 |
| 40% Exceedance                              | 585 | 609 | 715 | 654 | 578 | 574 | 535 | 460 | 374 | 360 | 397 | 490 |
| 50% Exceedance                              | 561 | 571 | 680 | 602 | 543 | 554 | 518 | 444 | 370 | 354 | 377 | 458 |
| 60% Exceedance                              | 414 | 430 | 646 | 562 | 517 | 507 | 429 | 397 | 361 | 345 | 356 | 373 |
| 70% Exceedance                              | 386 | 397 | 583 | 505 | 473 | 407 | 360 | 352 | 352 | 338 | 342 | 358 |
| 80% Exceedance                              | 369 | 381 | 517 | 444 | 352 | 358 | 307 | 271 | 336 | 329 | 332 | 353 |
| 90% Exceedance                              | 353 | 372 | 426 | 312 | 209 | 249 | 192 | 124 | 265 | 318 | 322 | 347 |
| Full Simulation Period Average <sup>a</sup> | 502 | 533 | 630 | 579 | 516 | 493 | 445 | 387 | 370 | 379 | 403 | 450 |
| Wet Water Years (28%)                       | 363 | 388 | 533 | 437 | 360 | 317 | 260 | 222 | 285 | 343 | 337 | 350 |
| Above Normal Years (14%)                    | 397 | 390 | 632 | 592 | 501 | 469 | 427 | 387 | 355 | 340 | 331 | 355 |
| Below Normal Years (18%)                    | 572 | 594 | 641 | 605 | 528 | 538 | 473 | 414 | 365 | 351 | 389 | 494 |
| Dry Water Years (24%)                       | 594 | 623 | 650 | 646 | 606 | 575 | 542 | 463 | 373 | 357 | 419 | 486 |
| Critical Water Years (16%)                  | 633 | 731 | 766 | 685 | 652 | 647 | 609 | 534 | 530 | 538 | 571 | 601 |

**Table F.2.5-16-10c. Jones Pumping Plant South Delta Exports Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -163 | -46  | -18  | -29  | -76  | -122 | -181 | -198 | -150 | -96  | -85  | -139 |
| 20% Exceedance                              | -107 | -37  | -2   | -33  | -97  | -126 | -178 | -202 | -234 | -217 | -165 | -142 |
| 30% Exceedance                              | -68  | -48  | 5    | -48  | -139 | -134 | -166 | -187 | -224 | -218 | -185 | -128 |
| 40% Exceedance                              | -45  | -58  | 14   | -78  | -142 | -129 | -165 | -174 | -207 | -203 | -177 | -114 |
| 50% Exceedance                              | -42  | -76  | -14  | -110 | -161 | -125 | -144 | -124 | -141 | -159 | -161 | -113 |
| 60% Exceedance                              | -180 | -207 | -34  | -131 | -166 | -141 | -144 | -53  | -64  | -112 | -160 | -184 |
| 70% Exceedance                              | -189 | -220 | -74  | -173 | -186 | -200 | -125 | -40  | -19  | -88  | -148 | -179 |
| 80% Exceedance                              | -178 | -200 | -113 | -214 | -261 | -131 | -109 | -85  | 40   | -37  | -113 | -152 |
| 90% Exceedance                              | -155 | -185 | -184 | -289 | -257 | -138 | -164 | -193 | 4    | 52   | -50  | -114 |
| Full Simulation Period Average <sup>a</sup> | -141 | -132 | -62  | -120 | -156 | -141 | -148 | -140 | -108 | -104 | -126 | -146 |
| Wet Water Years (28%)                       | -173 | -191 | -91  | -198 | -205 | -171 | -151 | -116 | -10  | 16   | -70  | -130 |
| Above Normal Years (14%)                    | -183 | -227 | -35  | -132 | -188 | -154 | -119 | -84  | -73  | -109 | -168 | -191 |
| Below Normal Years (18%)                    | -62  | -67  | -56  | -91  | -153 | -110 | -139 | -131 | -133 | -154 | -150 | -93  |
| Dry Water Years (24%)                       | -93  | -79  | -67  | -78  | -117 | -139 | -164 | -181 | -212 | -214 | -169 | -152 |
| Critical Water Years (16%)                  | -209 | -86  | -33  | -68  | -108 | -113 | -157 | -180 | -124 | -89  | -97  | -186 |

<sup>a</sup> Based on the 100-year simulation period.

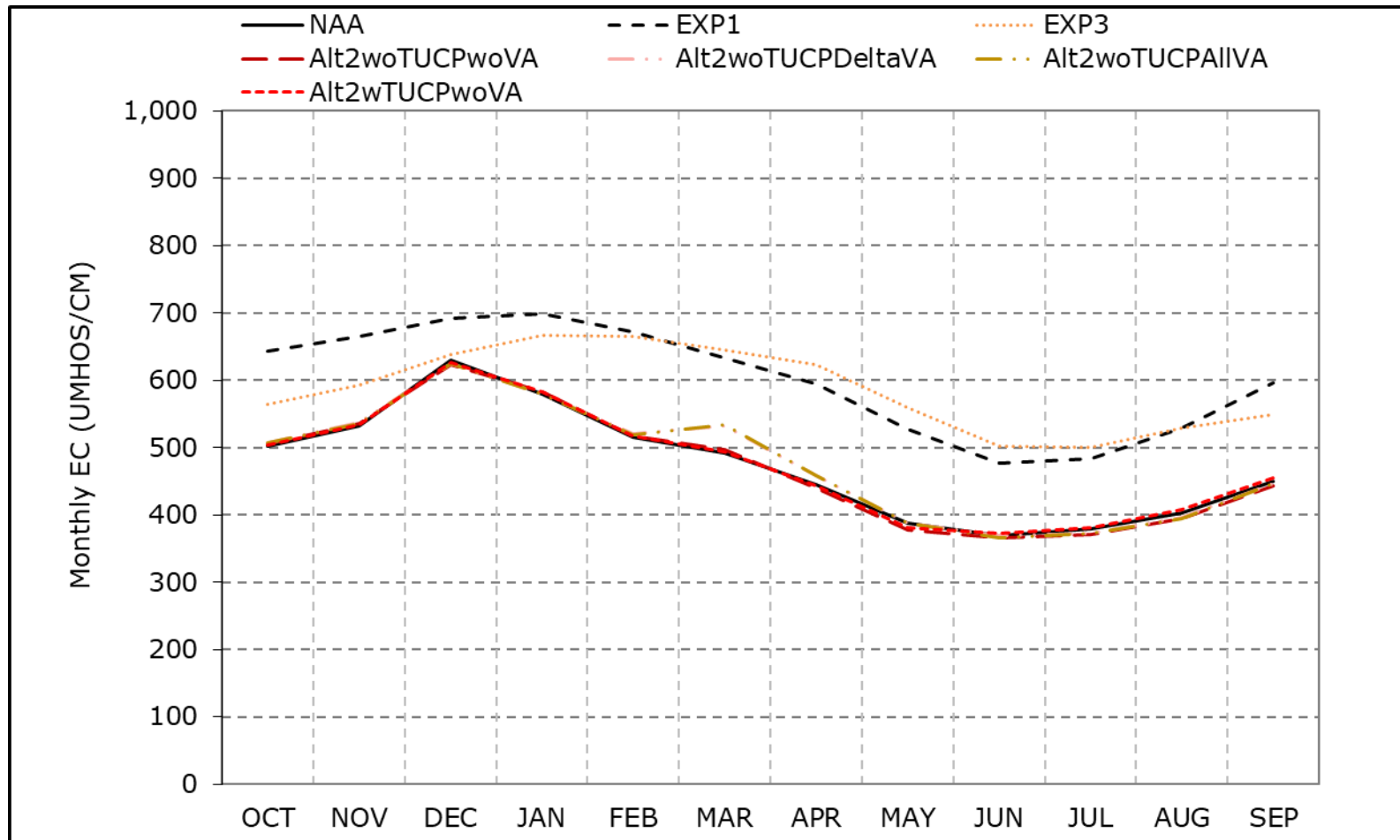
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-16-1. Jones Pumping Plant South Delta Exports Salinity, Long-Term Average EC**

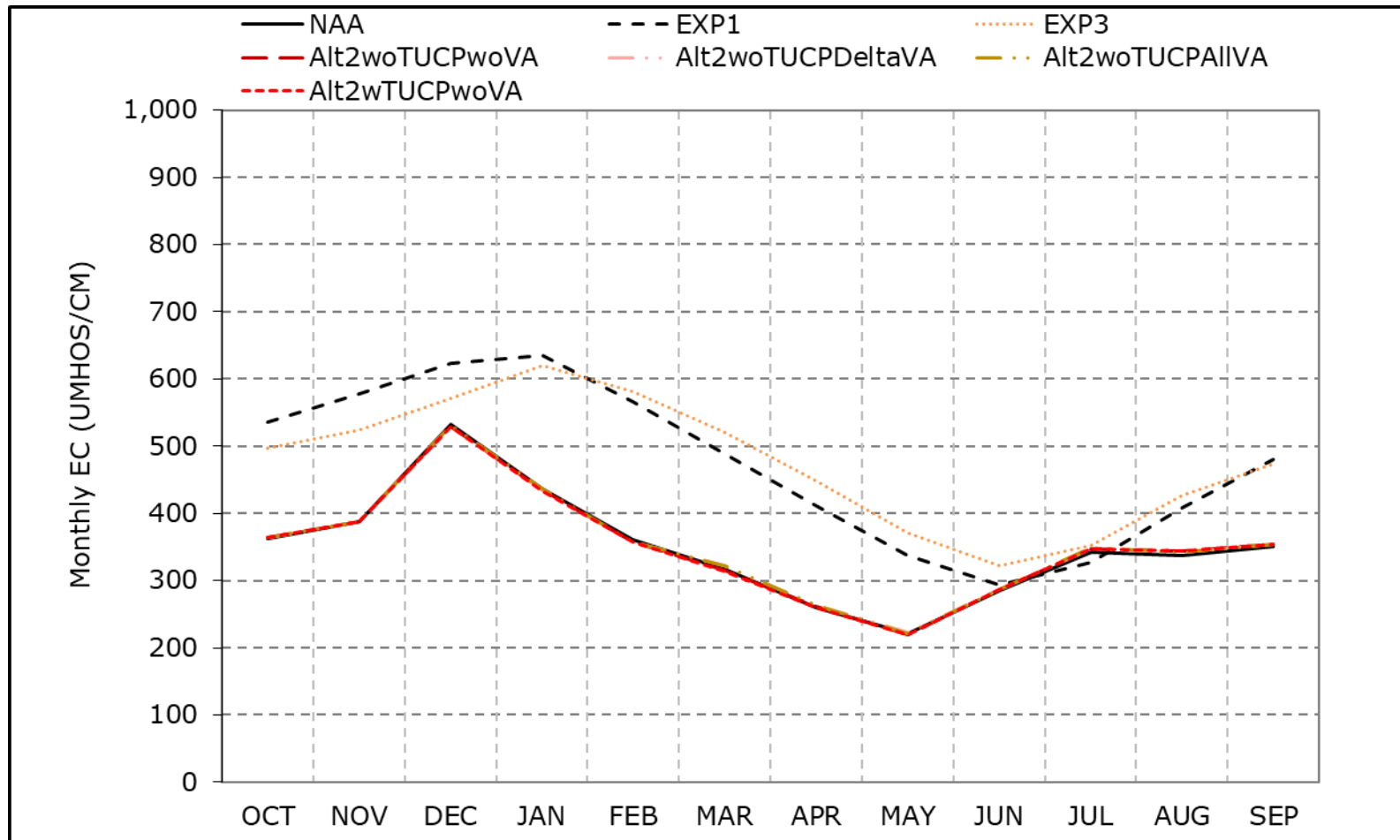


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-2. Jones Pumping Plant South Delta Exports Salinity, Wet Year  
Average EC**

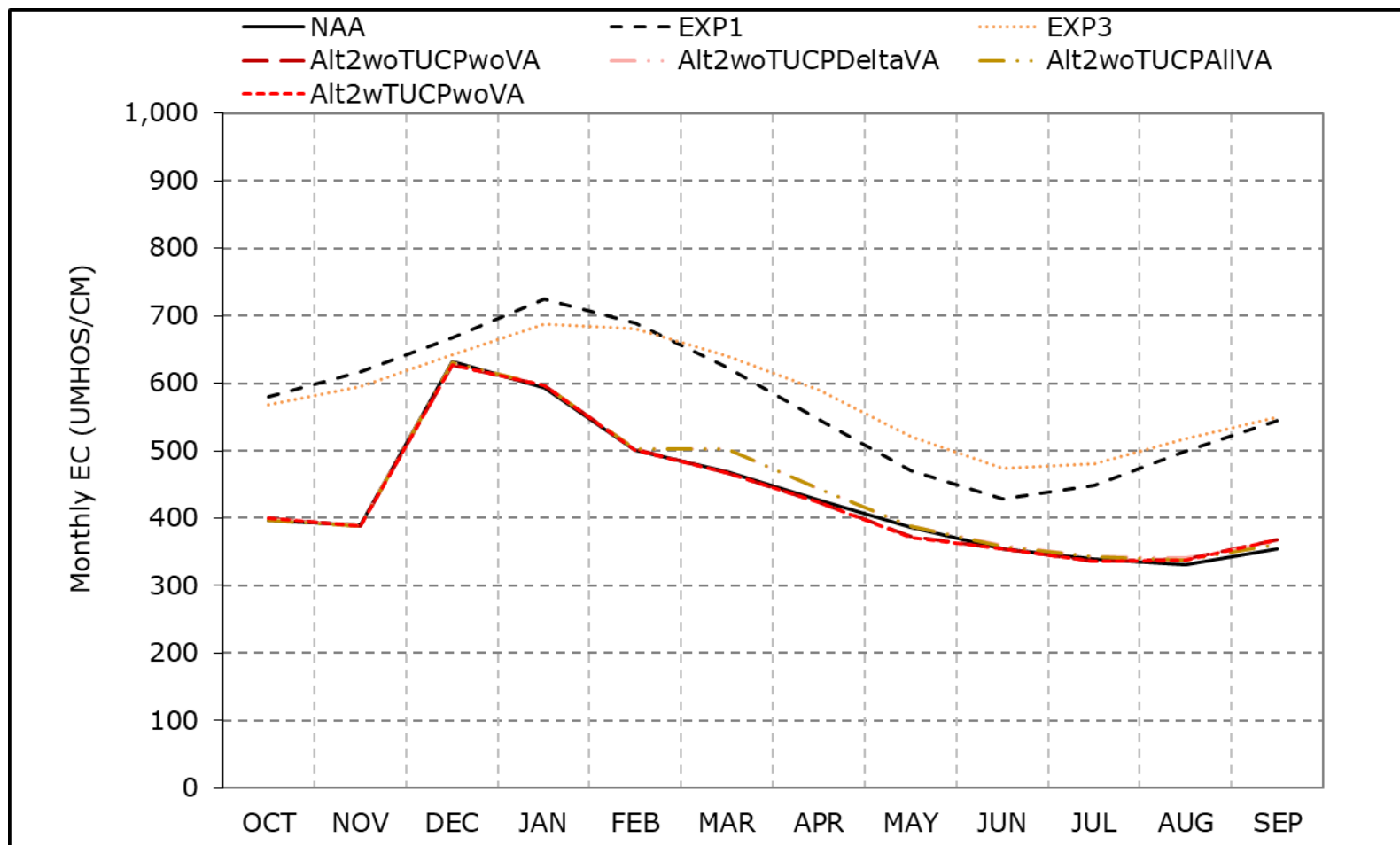


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-3. Jones Pumping Plant South Delta Exports Salinity, Above Normal Year Average EC**

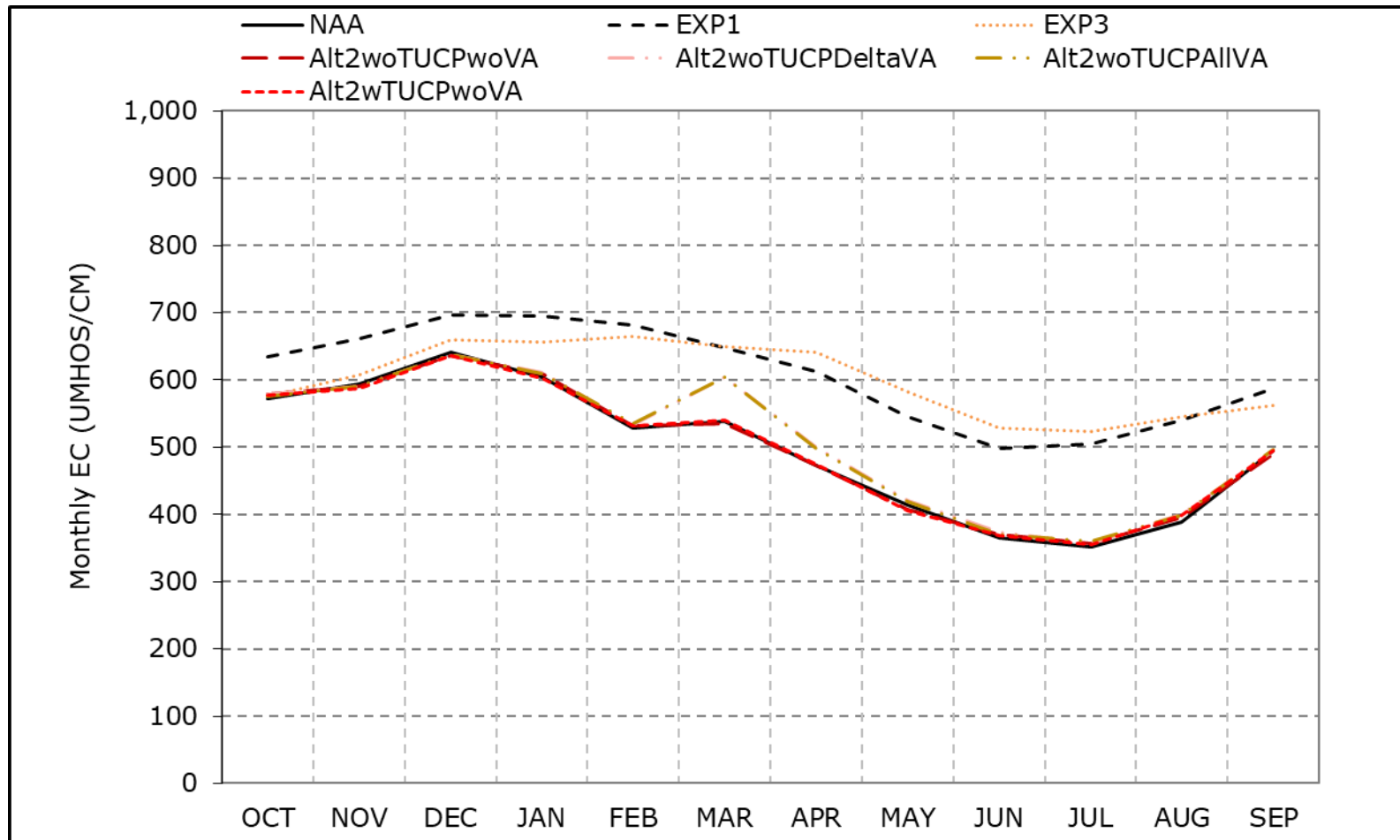


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-4. Jones Pumping Plant South Delta Exports Salinity, Below Normal Year Average EC**

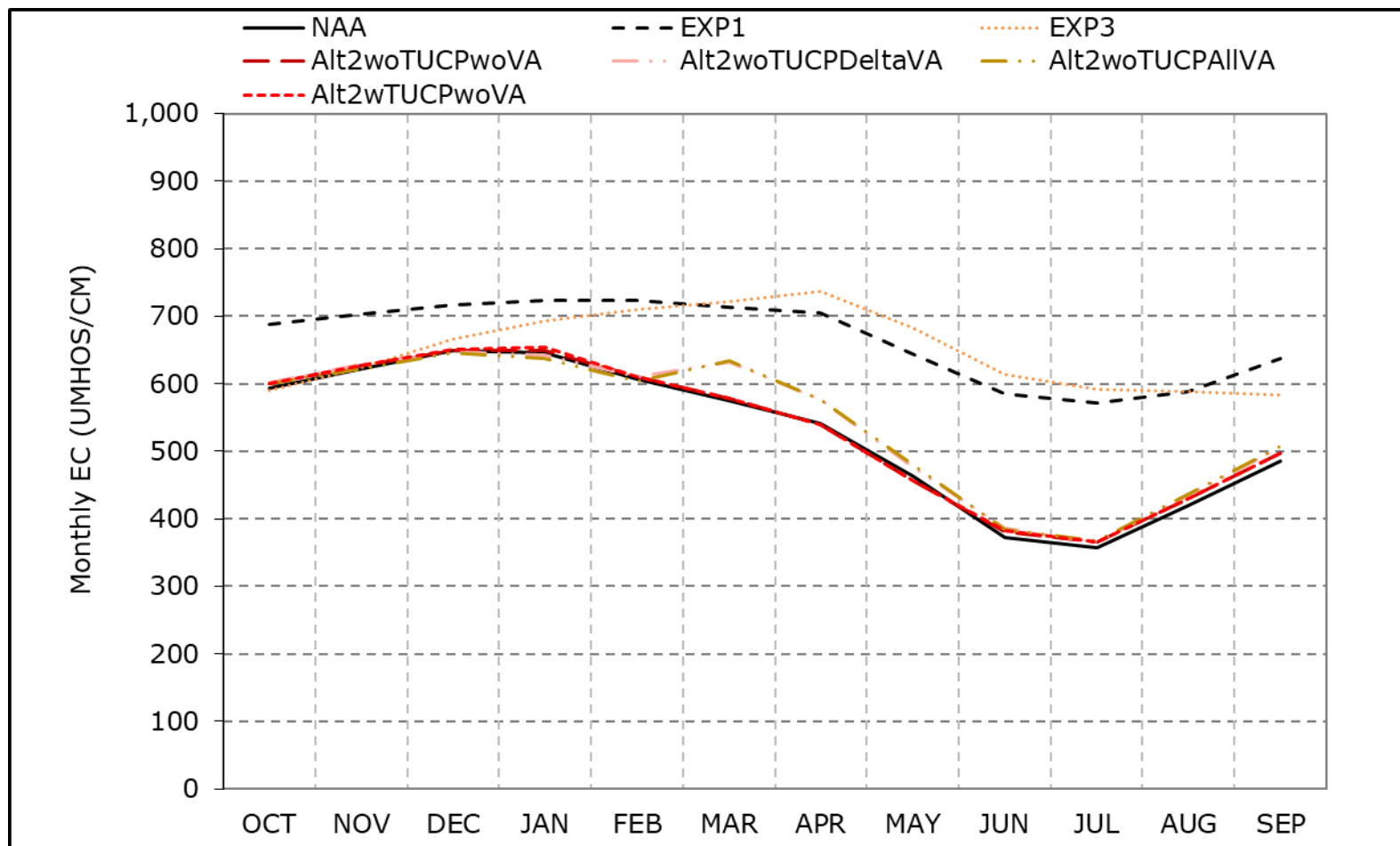


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-5. Jones Pumping Plant South Delta Exports Salinity, Dry Year  
Average EC**

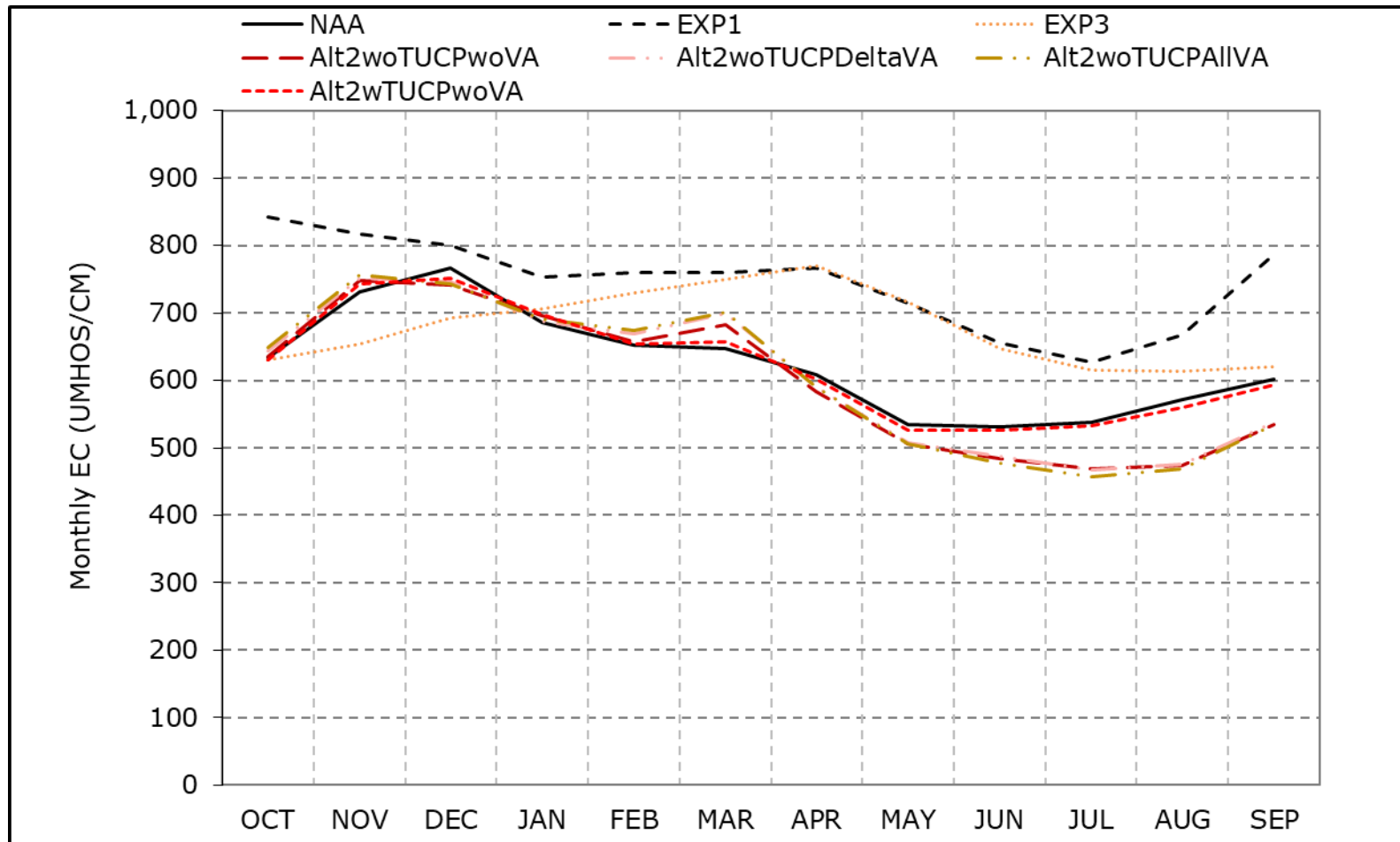


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-6. Jones Pumping Plant South Delta Exports Salinity, Critical Year Average EC**

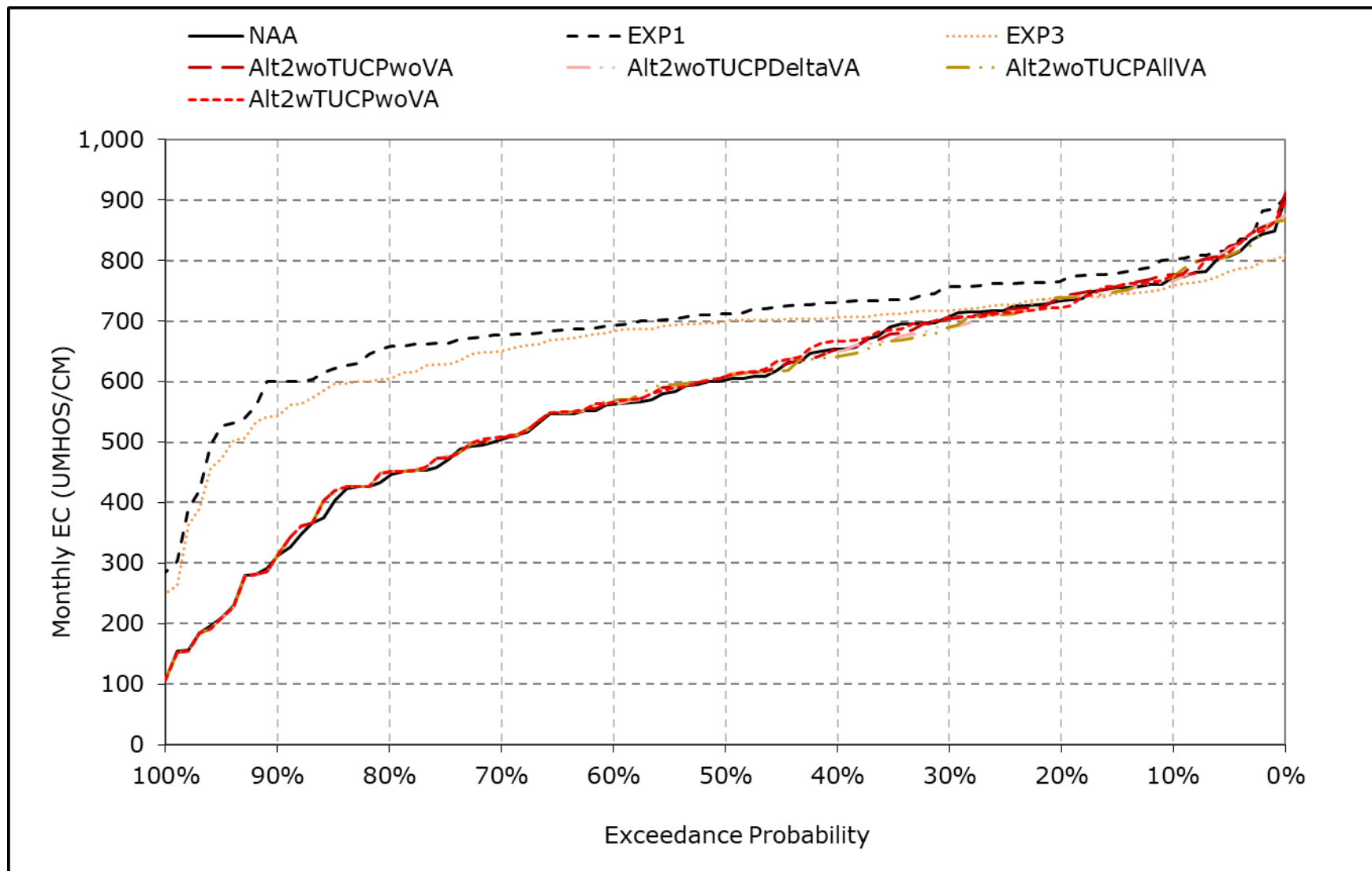


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

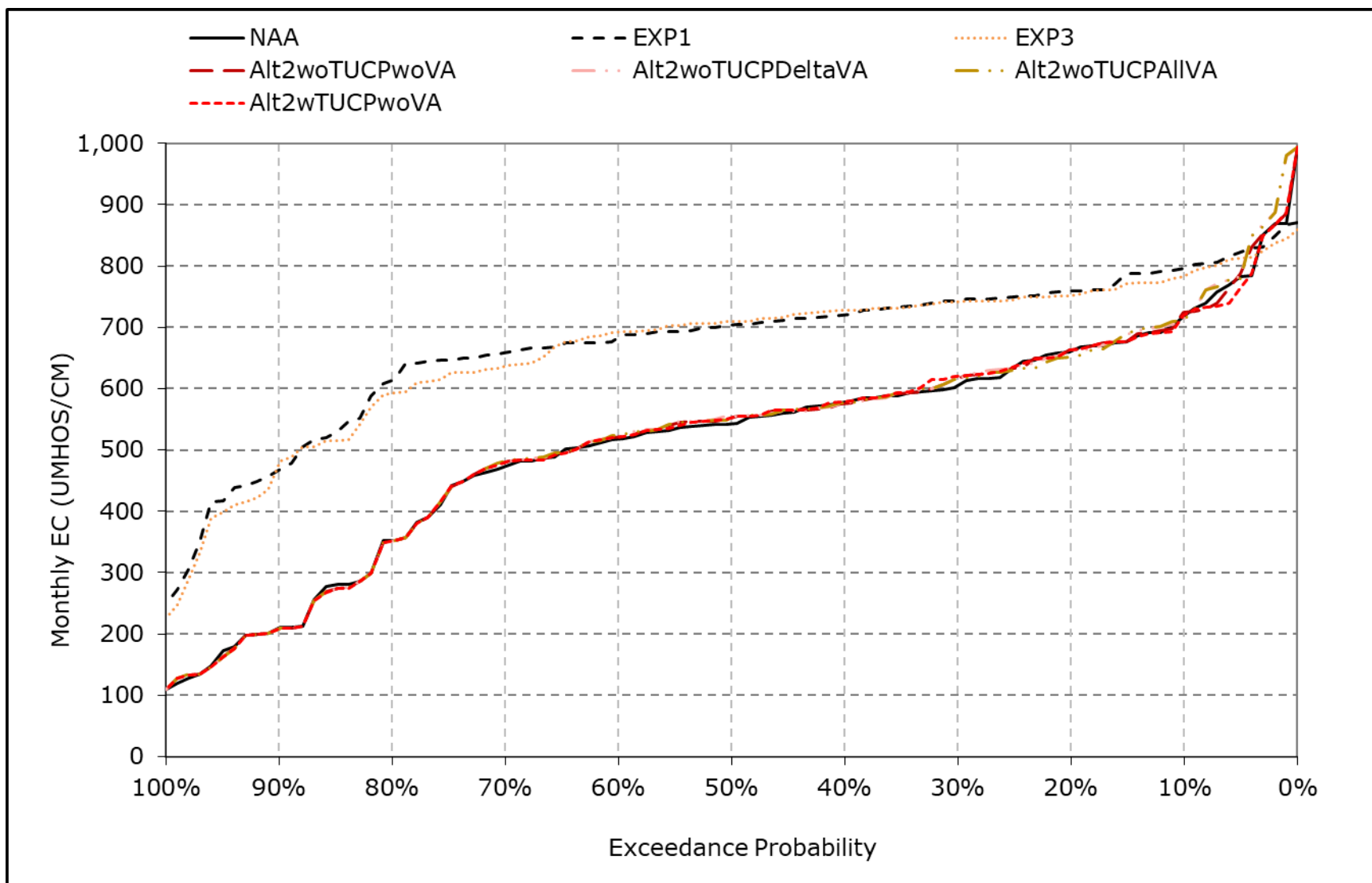
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-7. Jones Pumping Plant South Delta Exports Salinity, January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

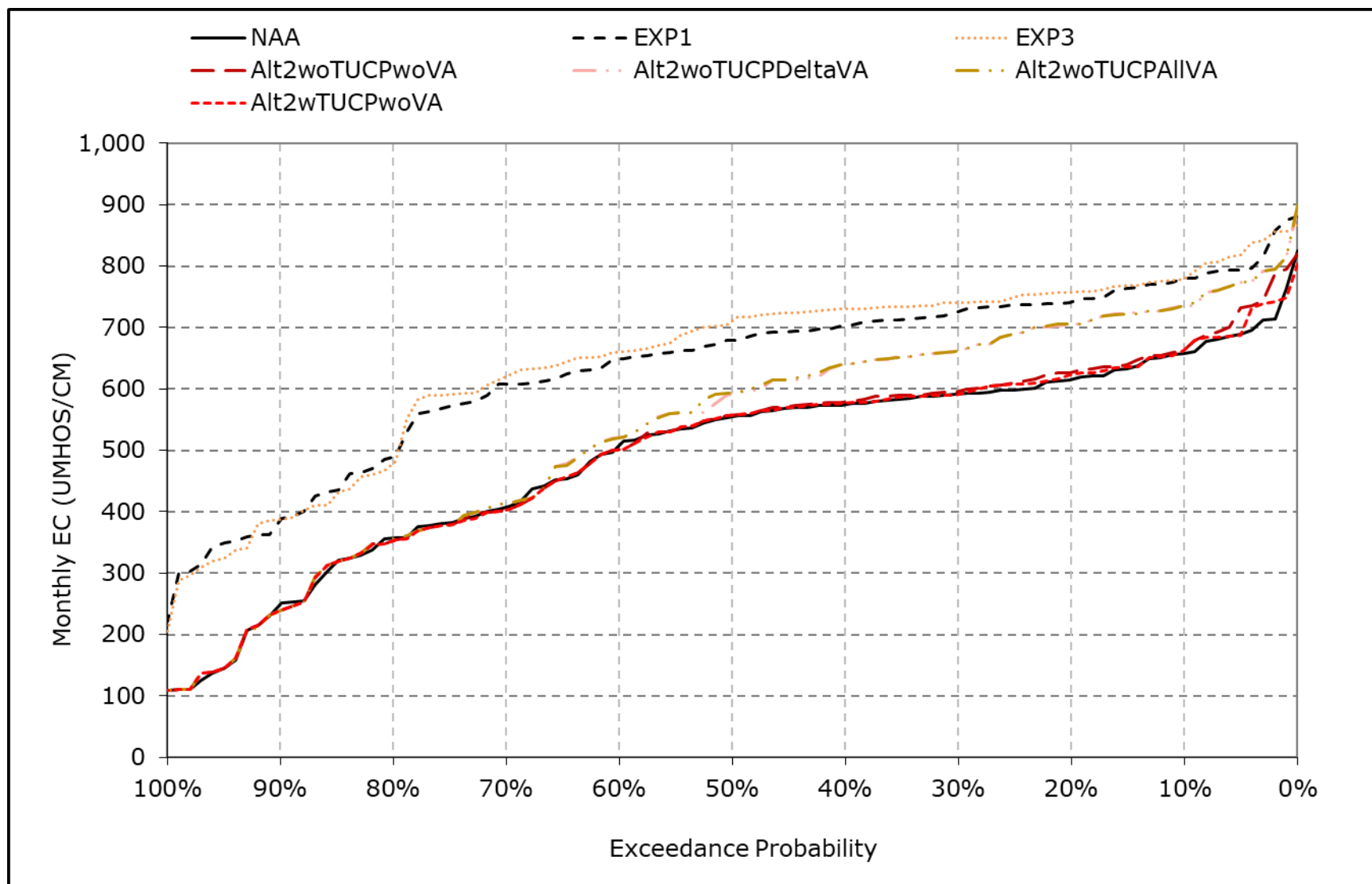
**Figure F.2.5-16-8. Jones Pumping Plant South Delta Exports Salinity, February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

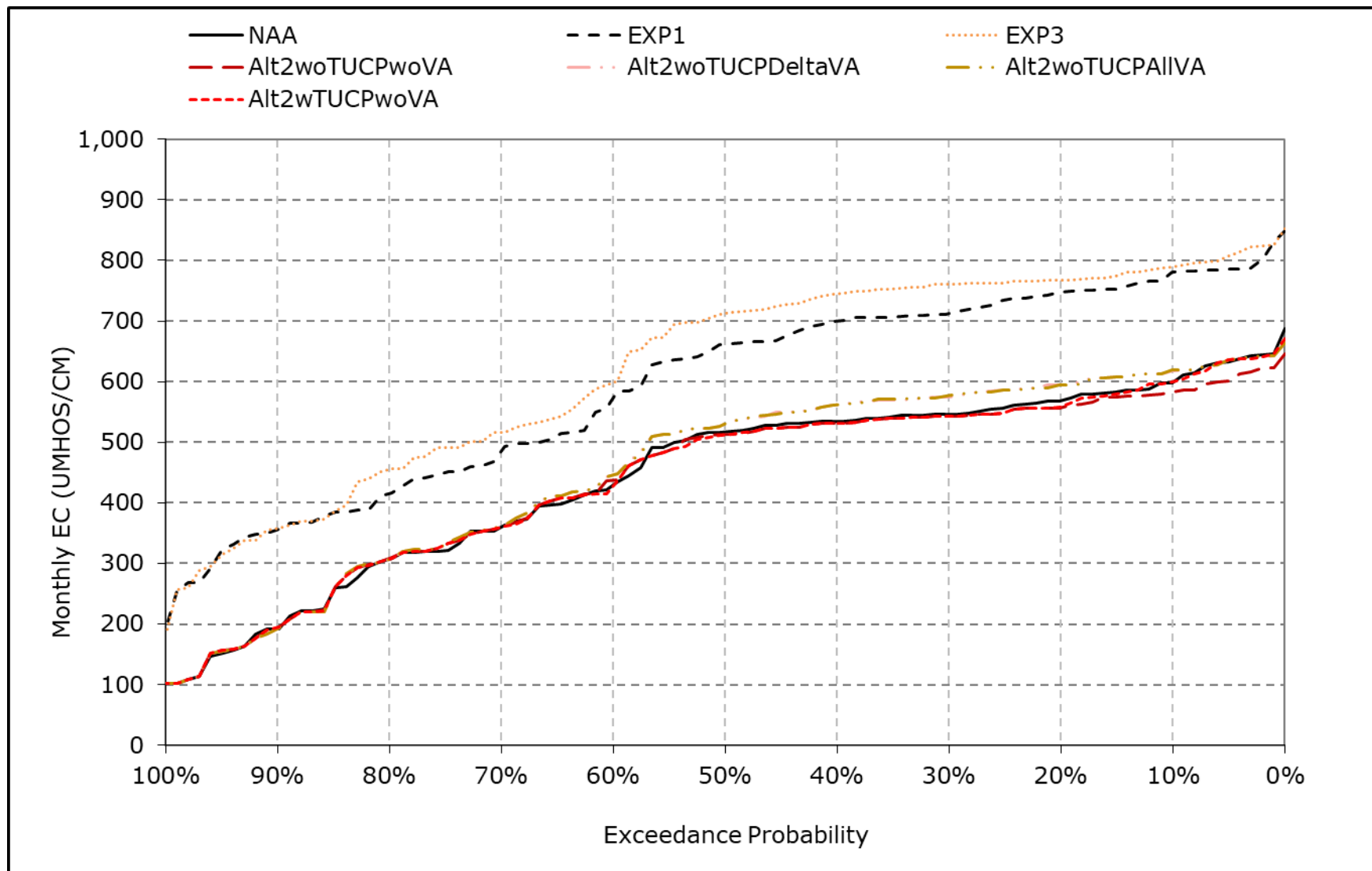


**Figure F.2.5-16-9. Jones Pumping Plant South Delta Exports Salinity, March EC**



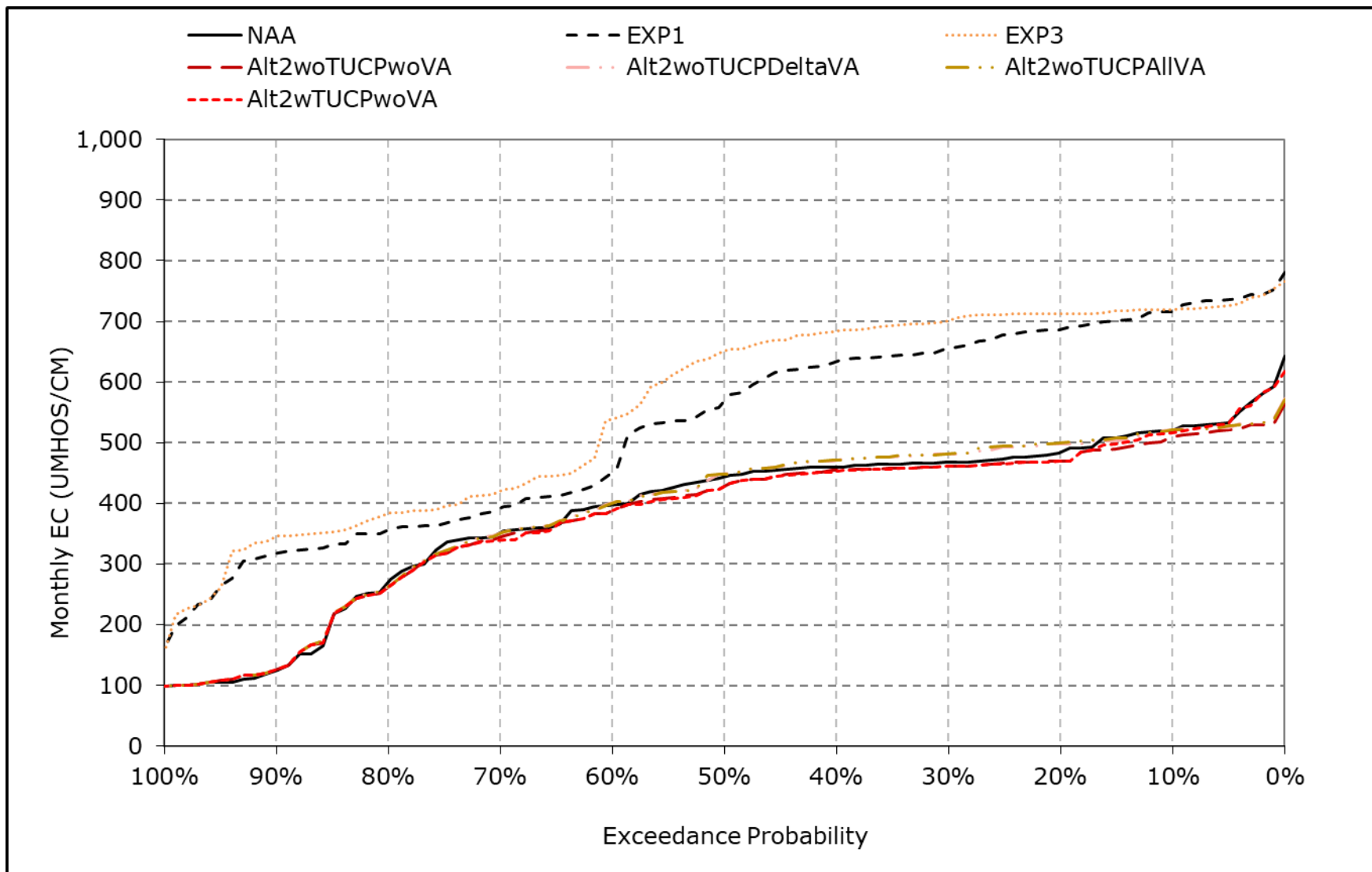
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-10. Jones Pumping Plant South Delta Exports Salinity, April EC**



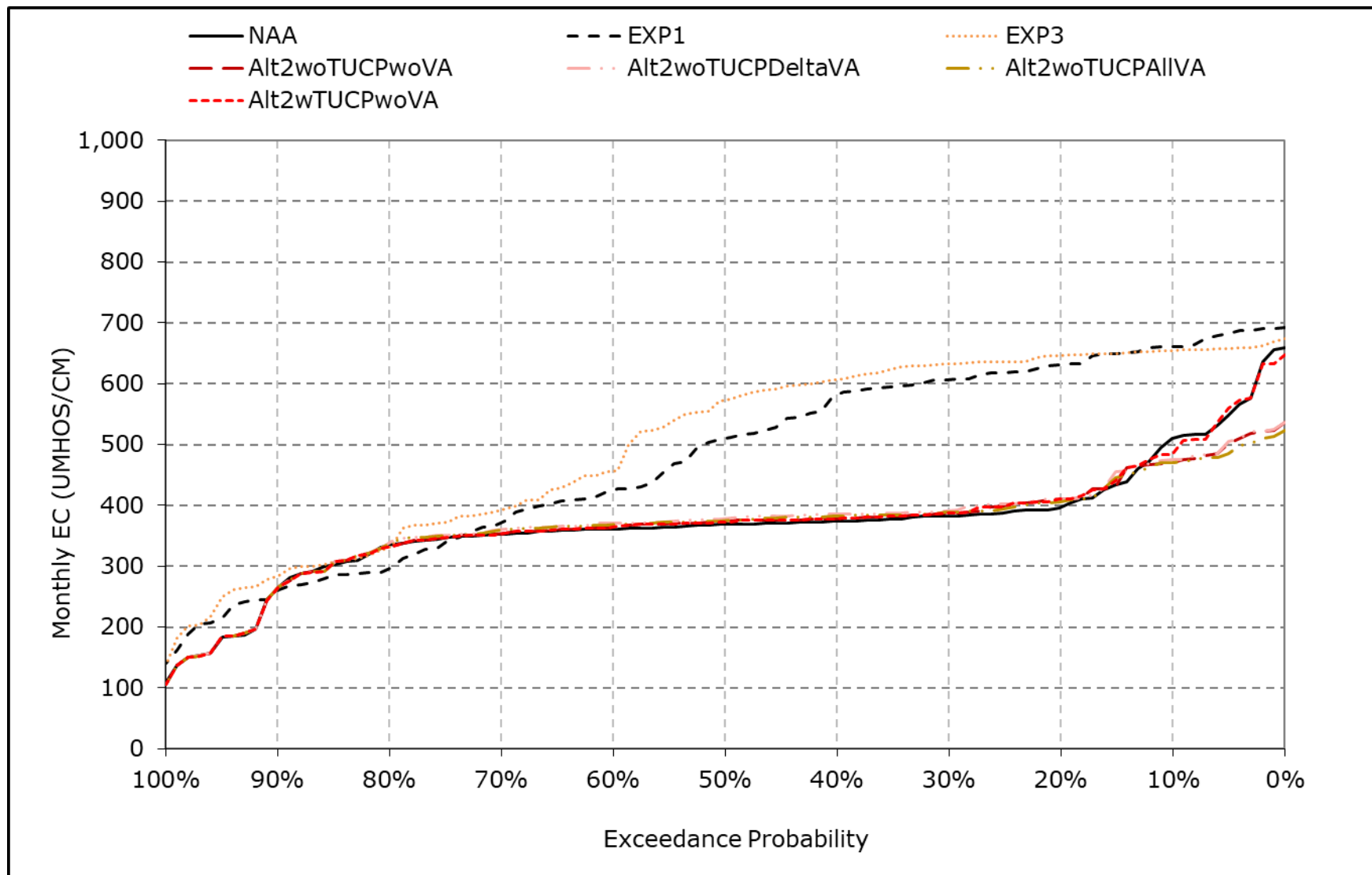
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-11. Jones Pumping Plant South Delta Exports Salinity, May EC**



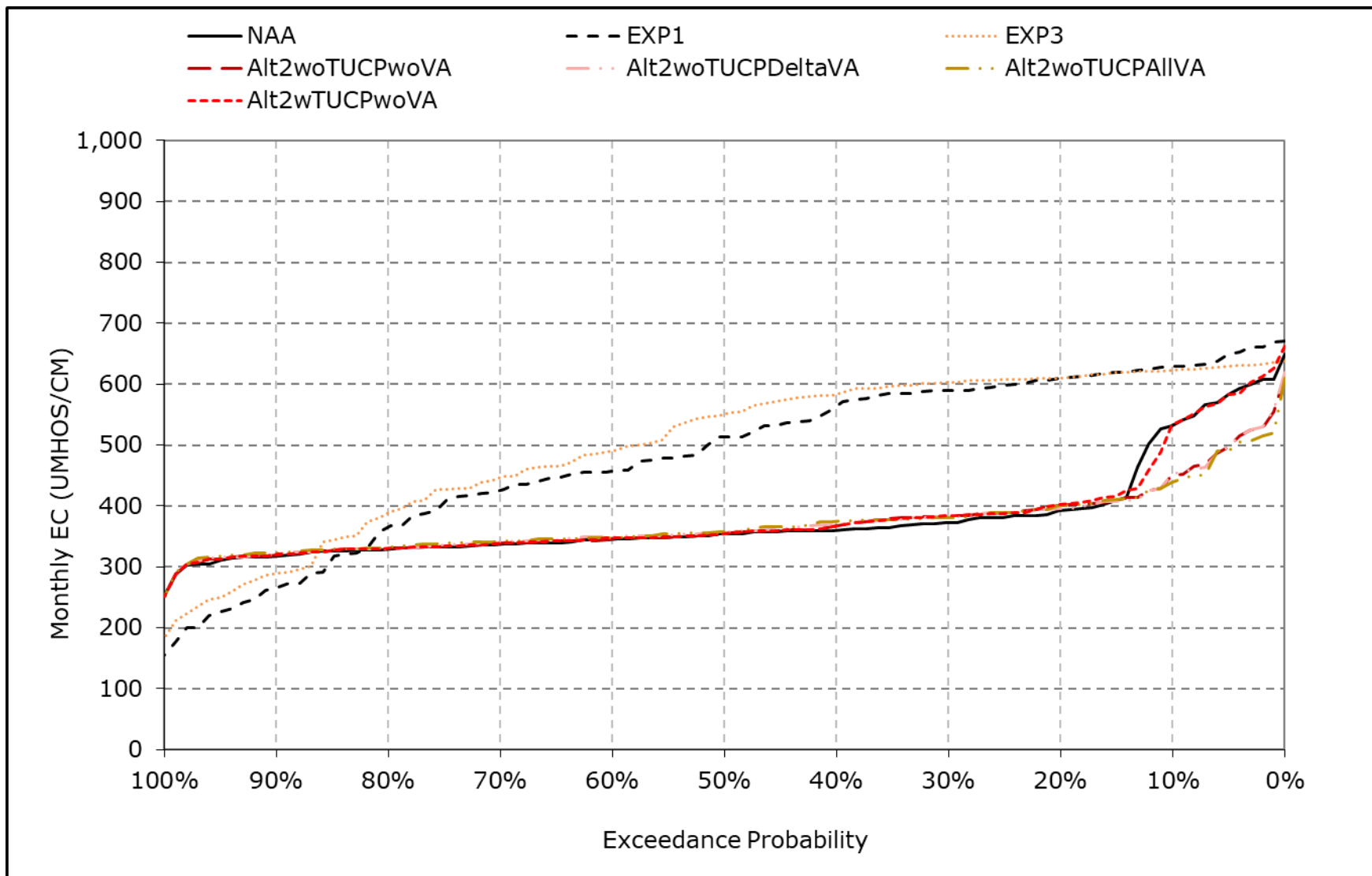
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-12. Jones Pumping Plant South Delta Exports Salinity, June EC**



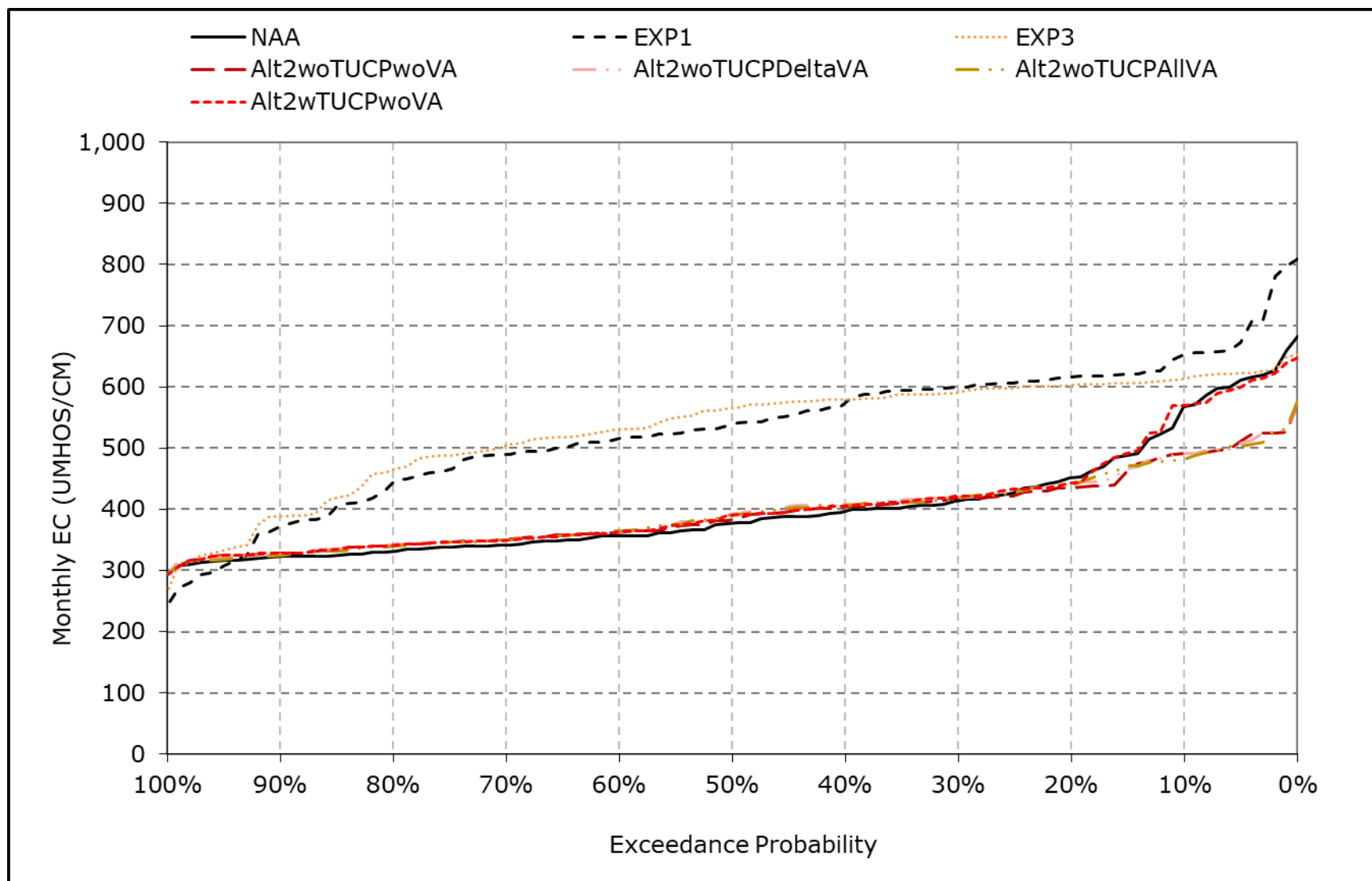
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-13. Jones Pumping Plant South Delta Exports Salinity, July EC**



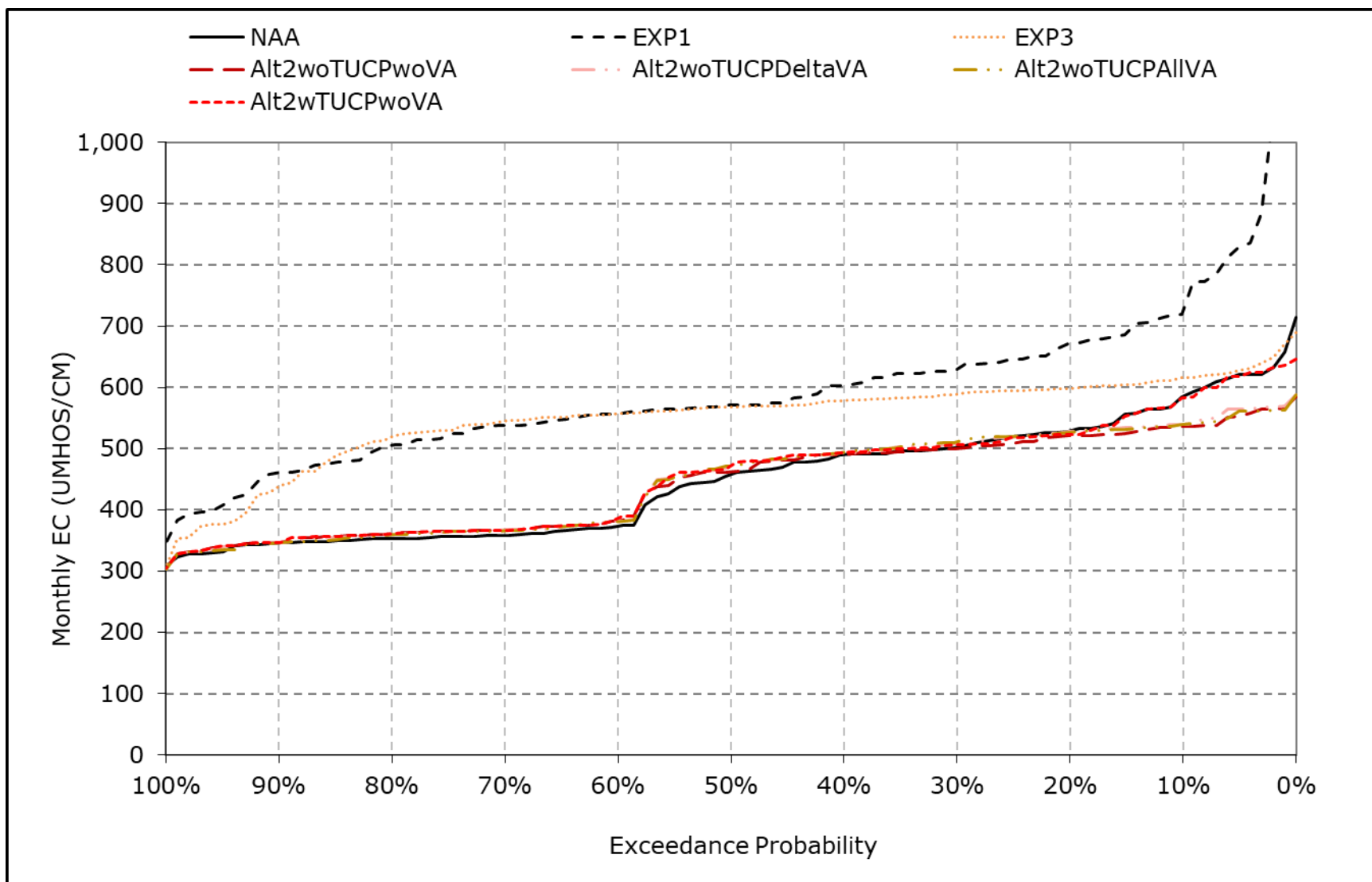
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-14. Jones Pumping Plant South Delta Exports Salinity, August EC**



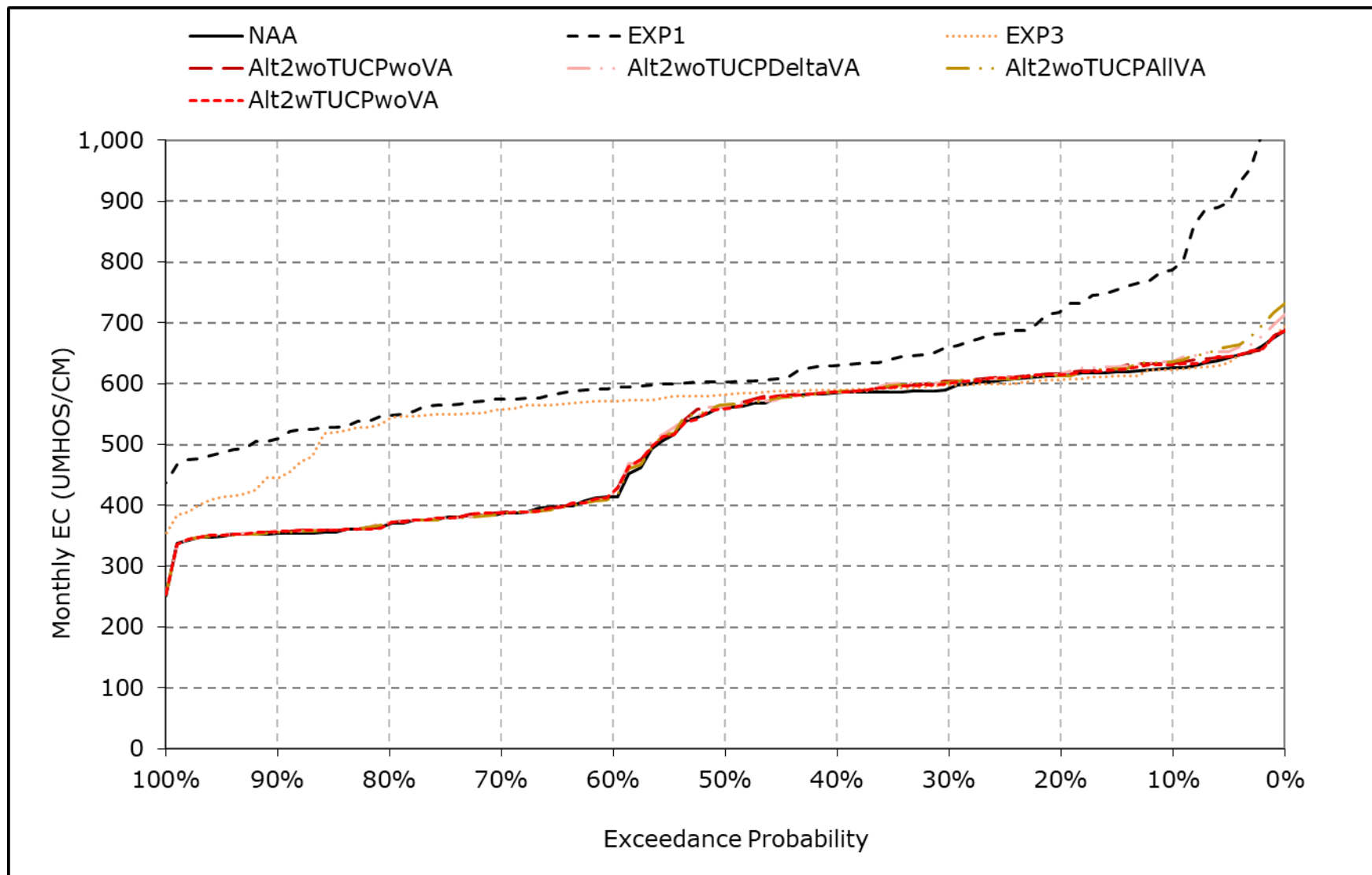
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-15. Jones Pumping Plant South Delta Exports Salinity, September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

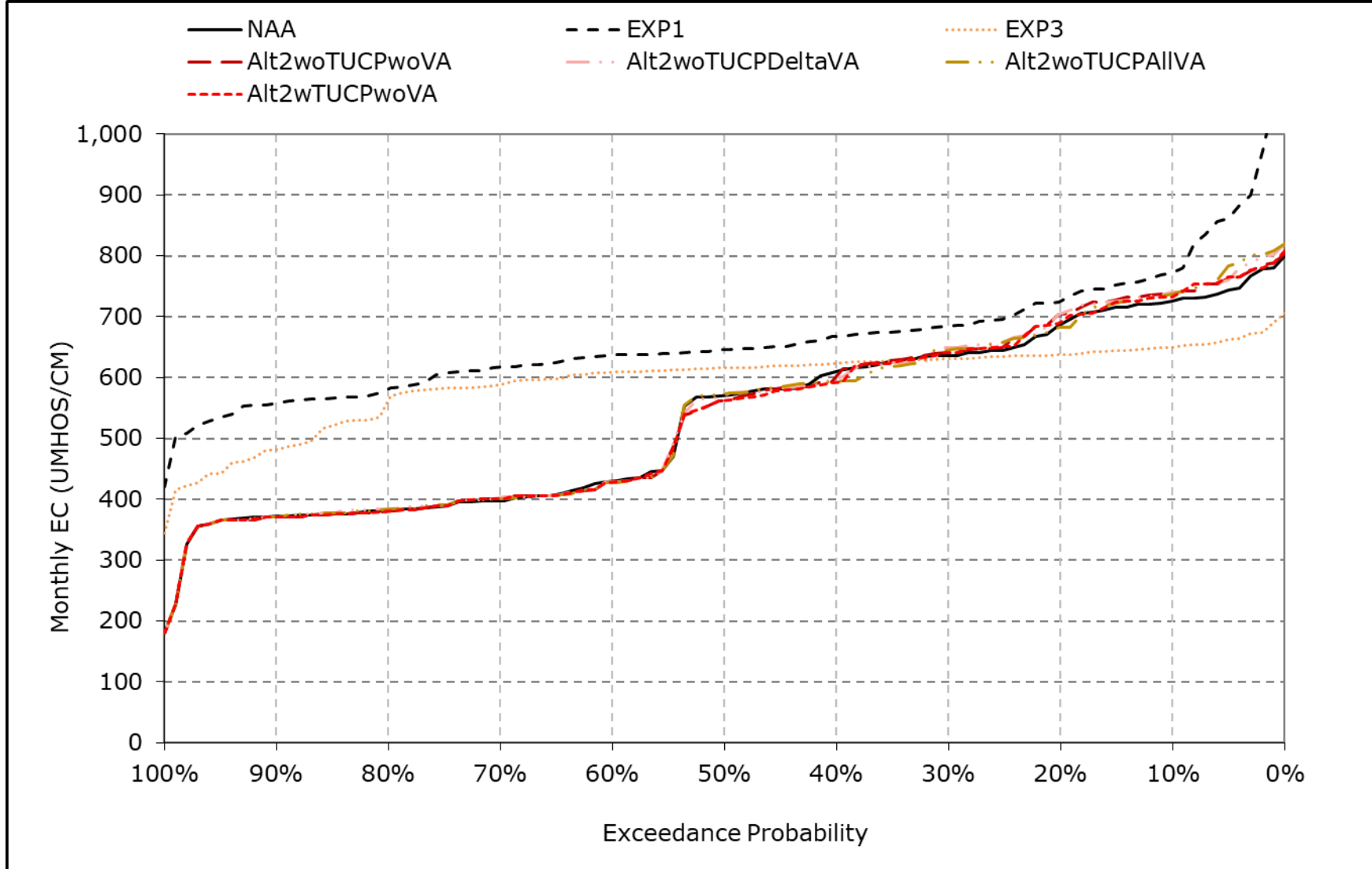
**Figure F.2.5-16-16. Jones Pumping Plant South Delta Exports Salinity, October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

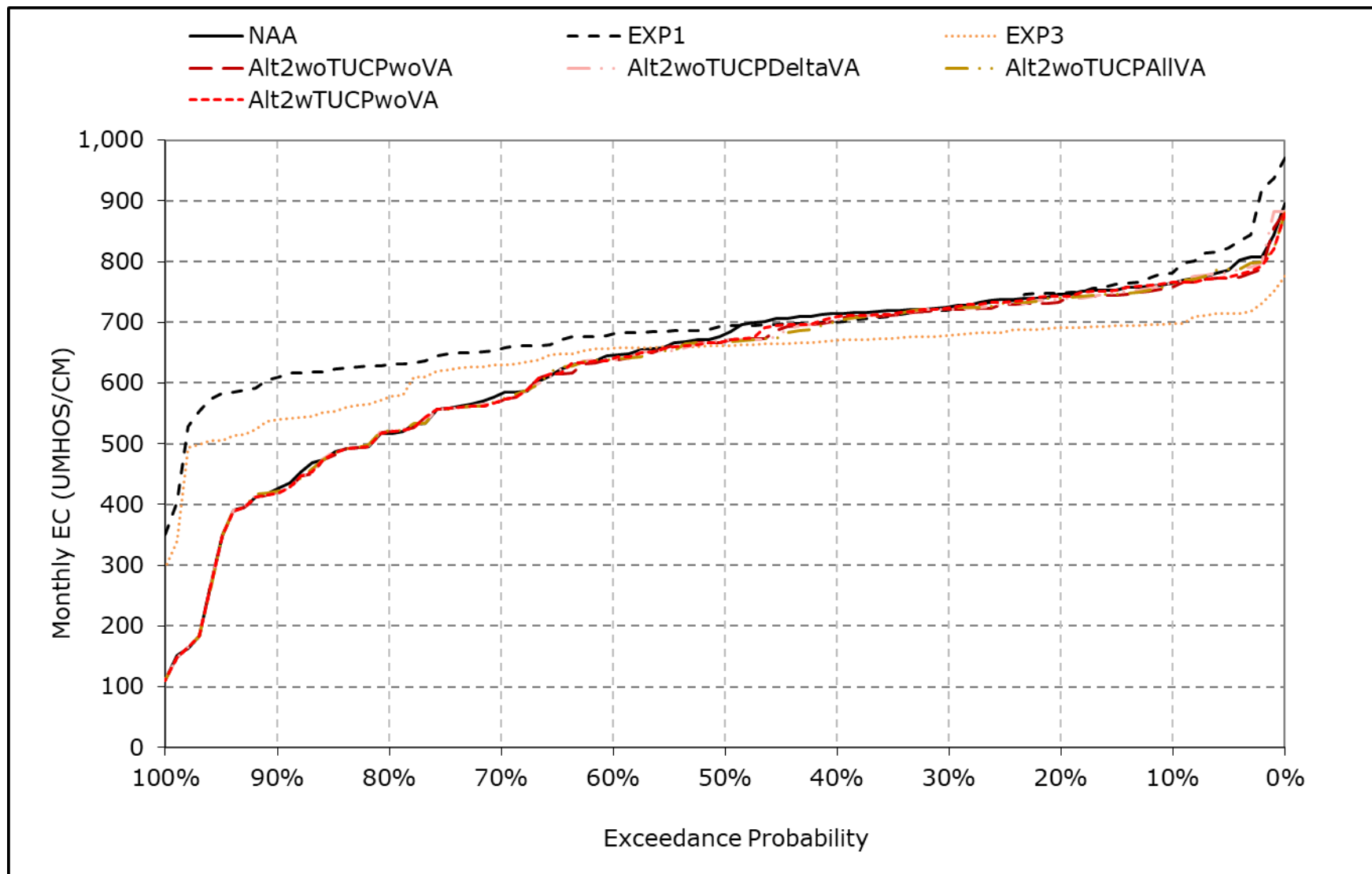


**Figure F.2.5-16-17. Jones Pumping Plant South Delta Exports Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-16-18. Jones Pumping Plant South Delta Exports Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-17-1a. Banks Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 596 | 681 | 760 | 815 | 689 | 521 | 505 | 484 | 456 | 494 | 548 | 574 |
| 20% Exceedance                              | 562 | 611 | 732 | 723 | 621 | 481 | 452 | 463 | 365 | 333 | 405 | 505 |
| 30% Exceedance                              | 555 | 590 | 697 | 675 | 515 | 454 | 436 | 440 | 348 | 311 | 365 | 469 |
| 40% Exceedance                              | 529 | 563 | 662 | 628 | 488 | 430 | 417 | 417 | 341 | 301 | 343 | 448 |
| 50% Exceedance                              | 501 | 524 | 627 | 567 | 459 | 415 | 412 | 407 | 336 | 294 | 314 | 402 |
| 60% Exceedance                              | 295 | 316 | 568 | 456 | 404 | 395 | 397 | 393 | 328 | 283 | 291 | 334 |
| 70% Exceedance                              | 278 | 294 | 512 | 405 | 369 | 379 | 377 | 368 | 315 | 272 | 275 | 299 |
| 80% Exceedance                              | 268 | 285 | 452 | 367 | 313 | 349 | 326 | 333 | 294 | 266 | 268 | 296 |
| 90% Exceedance                              | 263 | 280 | 346 | 294 | 250 | 264 | 203 | 175 | 215 | 255 | 261 | 287 |
| Full Simulation Period Average <sup>a</sup> | 432 | 462 | 585 | 546 | 462 | 410 | 390 | 381 | 339 | 323 | 351 | 407 |
| Wet Water Years (28%)                       | 268 | 288 | 470 | 388 | 329 | 304 | 270 | 247 | 252 | 268 | 271 | 295 |
| Above Normal Years (14%)                    | 279 | 290 | 542 | 544 | 436 | 406 | 408 | 405 | 326 | 268 | 266 | 303 |
| Below Normal Years (18%)                    | 533 | 541 | 606 | 573 | 464 | 426 | 418 | 401 | 331 | 294 | 337 | 462 |
| Dry Water Years (24%)                       | 536 | 570 | 615 | 632 | 534 | 445 | 424 | 423 | 344 | 314 | 376 | 444 |
| Critical Water Years (16%)                  | 605 | 689 | 773 | 666 | 605 | 527 | 506 | 507 | 503 | 516 | 545 | 578 |

**Table F.2.5-17-1b. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 572 | 676 | 746 | 804 | 690 | 532 | 485 | 451 | 427 | 422 | 458 | 511 |
| 20% Exceedance                              | 558 | 622 | 722 | 747 | 612 | 489 | 455 | 425 | 363 | 333 | 395 | 486 |
| 30% Exceedance                              | 547 | 589 | 681 | 690 | 520 | 453 | 434 | 409 | 340 | 318 | 365 | 469 |
| 40% Exceedance                              | 536 | 550 | 646 | 621 | 485 | 432 | 416 | 396 | 334 | 302 | 351 | 445 |
| 50% Exceedance                              | 509 | 496 | 613 | 569 | 466 | 417 | 409 | 383 | 326 | 295 | 323 | 413 |
| 60% Exceedance                              | 302 | 314 | 565 | 455 | 413 | 399 | 390 | 369 | 312 | 285 | 296 | 352 |
| 70% Exceedance                              | 280 | 293 | 503 | 408 | 377 | 381 | 357 | 331 | 300 | 272 | 278 | 316 |
| 80% Exceedance                              | 272 | 285 | 451 | 369 | 316 | 349 | 331 | 301 | 278 | 265 | 272 | 306 |
| 90% Exceedance                              | 265 | 278 | 345 | 294 | 246 | 271 | 224 | 176 | 207 | 257 | 268 | 294 |
| Full Simulation Period Average <sup>a</sup> | 429 | 460 | 576 | 548 | 464 | 413 | 389 | 355 | 322 | 315 | 342 | 400 |
| Wet Water Years (28%)                       | 270 | 288 | 466 | 380 | 327 | 301 | 271 | 232 | 243 | 269 | 275 | 301 |
| Above Normal Years (14%)                    | 284 | 288 | 534 | 540 | 438 | 403 | 394 | 359 | 310 | 265 | 274 | 316 |
| Below Normal Years (18%)                    | 535 | 538 | 598 | 580 | 470 | 427 | 414 | 374 | 321 | 295 | 343 | 457 |
| Dry Water Years (24%)                       | 545 | 577 | 617 | 638 | 534 | 451 | 425 | 402 | 338 | 319 | 383 | 457 |
| Critical Water Years (16%)                  | 561 | 675 | 729 | 681 | 614 | 542 | 508 | 474 | 450 | 454 | 458 | 494 |

**Table F.2.5-17-1c. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -24 | -5  | -14 | -11 | 2   | 11  | -20 | -33 | -29 | -72 | -91 | -64 |
| 20% Exceedance                              | -5  | 11  | -10 | 24  | -9  | 8   | 2   | -38 | -2  | 0   | -9  | -19 |
| 30% Exceedance                              | -7  | -1  | -16 | 15  | 5   | -1  | -2  | -32 | -8  | 7   | -1  | -1  |
| 40% Exceedance                              | 7   | -12 | -15 | -7  | -3  | 2   | -1  | -21 | -7  | 1   | 8   | -4  |
| 50% Exceedance                              | 8   | -28 | -14 | 2   | 7   | 3   | -3  | -24 | -11 | 1   | 9   | 12  |
| 60% Exceedance                              | 6   | -2  | -3  | -1  | 9   | 3   | -7  | -24 | -16 | 2   | 5   | 17  |
| 70% Exceedance                              | 3   | -1  | -9  | 2   | 8   | 2   | -20 | -37 | -14 | 0   | 3   | 17  |
| 80% Exceedance                              | 3   | 0   | 0   | 2   | 3   | -1  | 6   | -33 | -16 | -1  | 5   | 11  |
| 90% Exceedance                              | 1   | -3  | -1  | 0   | -4  | 7   | 21  | 1   | -8  | 3   | 8   | 7   |
| Full Simulation Period Average <sup>a</sup> | -3  | -1  | -10 | 2   | 2   | 3   | -2  | -26 | -16 | -8  | -9  | -8  |
| Wet Water Years (28%)                       | 2   | 0   | -4  | -8  | -2  | -3  | 1   | -15 | -9  | 2   | 4   | 6   |
| Above Normal Years (14%)                    | 5   | -2  | -8  | -4  | 1   | -3  | -14 | -47 | -16 | -3  | 8   | 14  |
| Below Normal Years (18%)                    | 2   | -4  | -8  | 7   | 6   | 2   | -5  | -27 | -10 | 2   | 6   | -5  |
| Dry Water Years (24%)                       | 9   | 7   | 2   | 6   | 0   | 5   | 1   | -21 | -6  | 5   | 7   | 13  |
| Critical Water Years (16%)                  | -43 | -14 | -44 | 15  | 8   | 15  | 3   | -33 | -53 | -62 | -86 | -84 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-17-2a. Banks Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 596 | 681 | 760 | 815 | 689 | 521 | 505 | 484 | 456 | 494 | 548 | 574 |
| 20% Exceedance                              | 562 | 611 | 732 | 723 | 621 | 481 | 452 | 463 | 365 | 333 | 405 | 505 |
| 30% Exceedance                              | 555 | 590 | 697 | 675 | 515 | 454 | 436 | 440 | 348 | 311 | 365 | 469 |
| 40% Exceedance                              | 529 | 563 | 662 | 628 | 488 | 430 | 417 | 417 | 341 | 301 | 343 | 448 |
| 50% Exceedance                              | 501 | 524 | 627 | 567 | 459 | 415 | 412 | 407 | 336 | 294 | 314 | 402 |
| 60% Exceedance                              | 295 | 316 | 568 | 456 | 404 | 395 | 397 | 393 | 328 | 283 | 291 | 334 |
| 70% Exceedance                              | 278 | 294 | 512 | 405 | 369 | 379 | 377 | 368 | 315 | 272 | 275 | 299 |
| 80% Exceedance                              | 268 | 285 | 452 | 367 | 313 | 349 | 326 | 333 | 294 | 266 | 268 | 296 |
| 90% Exceedance                              | 263 | 280 | 346 | 294 | 250 | 264 | 203 | 175 | 215 | 255 | 261 | 287 |
| Full Simulation Period Average <sup>a</sup> | 432 | 462 | 585 | 546 | 462 | 410 | 390 | 381 | 339 | 323 | 351 | 407 |
| Wet Water Years (28%)                       | 268 | 288 | 470 | 388 | 329 | 304 | 270 | 247 | 252 | 268 | 271 | 295 |
| Above Normal Years (14%)                    | 279 | 290 | 542 | 544 | 436 | 406 | 408 | 405 | 326 | 268 | 266 | 303 |
| Below Normal Years (18%)                    | 533 | 541 | 606 | 573 | 464 | 426 | 418 | 401 | 331 | 294 | 337 | 462 |
| Dry Water Years (24%)                       | 536 | 570 | 615 | 632 | 534 | 445 | 424 | 423 | 344 | 314 | 376 | 444 |
| Critical Water Years (16%)                  | 605 | 689 | 773 | 666 | 605 | 527 | 506 | 507 | 503 | 516 | 545 | 578 |

**Table F.2.5-17-2b. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 578 | 682 | 746 | 798 | 699 | 573 | 567 | 493 | 427 | 395 | 466 | 516 |
| 20% Exceedance                              | 561 | 623 | 727 | 730 | 618 | 525 | 522 | 469 | 384 | 339 | 401 | 500 |
| 30% Exceedance                              | 548 | 583 | 682 | 668 | 520 | 486 | 498 | 453 | 355 | 319 | 375 | 474 |
| 40% Exceedance                              | 537 | 554 | 643 | 622 | 487 | 464 | 476 | 442 | 348 | 307 | 352 | 449 |
| 50% Exceedance                              | 508 | 509 | 608 | 570 | 465 | 448 | 453 | 430 | 341 | 296 | 332 | 416 |
| 60% Exceedance                              | 298 | 315 | 568 | 456 | 413 | 428 | 424 | 393 | 326 | 288 | 299 | 345 |
| 70% Exceedance                              | 276 | 293 | 503 | 408 | 378 | 410 | 391 | 347 | 306 | 275 | 279 | 312 |
| 80% Exceedance                              | 271 | 286 | 453 | 369 | 316 | 349 | 337 | 310 | 278 | 266 | 271 | 304 |
| 90% Exceedance                              | 267 | 280 | 345 | 294 | 246 | 271 | 206 | 180 | 207 | 259 | 268 | 290 |
| Full Simulation Period Average <sup>a</sup> | 431 | 462 | 578 | 545 | 466 | 441 | 427 | 383 | 331 | 316 | 344 | 404 |
| Wet Water Years (28%)                       | 269 | 289 | 468 | 381 | 327 | 308 | 275 | 238 | 244 | 270 | 274 | 300 |
| Above Normal Years (14%)                    | 282 | 289 | 540 | 541 | 438 | 436 | 445 | 403 | 323 | 271 | 276 | 312 |
| Below Normal Years (18%)                    | 537 | 537 | 602 | 585 | 474 | 480 | 489 | 414 | 330 | 296 | 346 | 466 |
| Dry Water Years (24%)                       | 550 | 578 | 614 | 626 | 533 | 484 | 482 | 451 | 357 | 320 | 391 | 468 |
| Critical Water Years (16%)                  | 565 | 680 | 737 | 670 | 623 | 567 | 526 | 484 | 454 | 451 | 454 | 498 |

**Table F.2.5-17-2c. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -18 | 1   | -14 | -18 | 11  | 52  | 63  | 9   | -29 | -98 | -83 | -58 |
| 20% Exceedance                              | -2  | 12  | -6  | 7   | -3  | 44  | 70  | 6   | 19  | 6   | -4  | -5  |
| 30% Exceedance                              | -6  | -6  | -15 | -7  | 5   | 32  | 62  | 12  | 6   | 8   | 10  | 5   |
| 40% Exceedance                              | 8   | -9  | -18 | -5  | -1  | 34  | 58  | 25  | 6   | 6   | 9   | 0   |
| 50% Exceedance                              | 6   | -15 | -19 | 3   | 6   | 33  | 41  | 23  | 5   | 2   | 18  | 14  |
| 60% Exceedance                              | 2   | -1  | 0   | 0   | 9   | 33  | 26  | 0   | -1  | 5   | 8   | 11  |
| 70% Exceedance                              | -2  | -1  | -9  | 3   | 9   | 31  | 15  | -20 | -8  | 3   | 4   | 12  |
| 80% Exceedance                              | 2   | 1   | 1   | 2   | 3   | 0   | 12  | -23 | -16 | -1  | 4   | 9   |
| 90% Exceedance                              | 4   | 0   | -1  | 0   | -4  | 7   | 2   | 4   | -8  | 5   | 7   | 3   |
| Full Simulation Period Average <sup>a</sup> | -1  | 0   | -7  | -1  | 4   | 31  | 36  | 2   | -8  | -7  | -7  | -4  |
| Wet Water Years (28%)                       | 1   | 1   | -2  | -6  | -1  | 4   | 5   | -10 | -8  | 2   | 3   | 5   |
| Above Normal Years (14%)                    | 3   | -1  | -2  | -3  | 2   | 30  | 37  | -3  | -4  | 3   | 10  | 9   |
| Below Normal Years (18%)                    | 4   | -4  | -4  | 12  | 10  | 55  | 71  | 13  | -1  | 3   | 9   | 3   |
| Dry Water Years (24%)                       | 14  | 8   | -1  | -6  | 0   | 38  | 58  | 28  | 13  | 6   | 15  | 24  |
| Critical Water Years (16%)                  | -39 | -9  | -36 | 4   | 18  | 40  | 20  | -23 | -49 | -66 | -90 | -79 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-17-3a. Banks Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 596 | 681 | 760 | 815 | 689 | 521 | 505 | 484 | 456 | 494 | 548 | 574 |
| 20% Exceedance                              | 562 | 611 | 732 | 723 | 621 | 481 | 452 | 463 | 365 | 333 | 405 | 505 |
| 30% Exceedance                              | 555 | 590 | 697 | 675 | 515 | 454 | 436 | 440 | 348 | 311 | 365 | 469 |
| 40% Exceedance                              | 529 | 563 | 662 | 628 | 488 | 430 | 417 | 417 | 341 | 301 | 343 | 448 |
| 50% Exceedance                              | 501 | 524 | 627 | 567 | 459 | 415 | 412 | 407 | 336 | 294 | 314 | 402 |
| 60% Exceedance                              | 295 | 316 | 568 | 456 | 404 | 395 | 397 | 393 | 328 | 283 | 291 | 334 |
| 70% Exceedance                              | 278 | 294 | 512 | 405 | 369 | 379 | 377 | 368 | 315 | 272 | 275 | 299 |
| 80% Exceedance                              | 268 | 285 | 452 | 367 | 313 | 349 | 326 | 333 | 294 | 266 | 268 | 296 |
| 90% Exceedance                              | 263 | 280 | 346 | 294 | 250 | 264 | 203 | 175 | 215 | 255 | 261 | 287 |
| Full Simulation Period Average <sup>a</sup> | 432 | 462 | 585 | 546 | 462 | 410 | 390 | 381 | 339 | 323 | 351 | 407 |
| Wet Water Years (28%)                       | 268 | 288 | 470 | 388 | 329 | 304 | 270 | 247 | 252 | 268 | 271 | 295 |
| Above Normal Years (14%)                    | 279 | 290 | 542 | 544 | 436 | 406 | 408 | 405 | 326 | 268 | 266 | 303 |
| Below Normal Years (18%)                    | 533 | 541 | 606 | 573 | 464 | 426 | 418 | 401 | 331 | 294 | 337 | 462 |
| Dry Water Years (24%)                       | 536 | 570 | 615 | 632 | 534 | 445 | 424 | 423 | 344 | 314 | 376 | 444 |
| Critical Water Years (16%)                  | 605 | 689 | 773 | 666 | 605 | 527 | 506 | 507 | 503 | 516 | 545 | 578 |

**Table F.2.5-17-3b. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPAILVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 575 | 679 | 745 | 798 | 700 | 573 | 568 | 491 | 431 | 397 | 460 | 511 |
| 20% Exceedance                              | 557 | 619 | 720 | 733 | 600 | 525 | 522 | 469 | 376 | 336 | 402 | 496 |
| 30% Exceedance                              | 548 | 577 | 678 | 662 | 519 | 486 | 499 | 453 | 353 | 319 | 370 | 479 |
| 40% Exceedance                              | 535 | 551 | 640 | 617 | 484 | 464 | 475 | 444 | 343 | 305 | 348 | 454 |
| 50% Exceedance                              | 515 | 521 | 609 | 565 | 464 | 447 | 453 | 430 | 336 | 299 | 331 | 415 |
| 60% Exceedance                              | 296 | 315 | 575 | 456 | 413 | 432 | 425 | 392 | 326 | 285 | 297 | 341 |
| 70% Exceedance                              | 275 | 293 | 505 | 410 | 378 | 411 | 393 | 344 | 305 | 276 | 277 | 310 |
| 80% Exceedance                              | 270 | 285 | 451 | 369 | 316 | 349 | 337 | 310 | 278 | 266 | 271 | 303 |
| 90% Exceedance                              | 265 | 280 | 339 | 295 | 246 | 271 | 205 | 180 | 207 | 258 | 263 | 290 |
| Full Simulation Period Average <sup>a</sup> | 430 | 460 | 577 | 544 | 465 | 441 | 427 | 383 | 329 | 314 | 342 | 402 |
| Wet Water Years (28%)                       | 269 | 288 | 468 | 384 | 328 | 308 | 274 | 237 | 243 | 270 | 274 | 300 |
| Above Normal Years (14%)                    | 280 | 288 | 541 | 540 | 438 | 435 | 445 | 403 | 321 | 268 | 269 | 308 |
| Below Normal Years (18%)                    | 537 | 538 | 599 | 579 | 473 | 480 | 489 | 413 | 327 | 298 | 344 | 466 |
| Dry Water Years (24%)                       | 550 | 572 | 608 | 620 | 527 | 482 | 482 | 452 | 356 | 321 | 395 | 470 |
| Critical Water Years (16%)                  | 561 | 682 | 736 | 671 | 630 | 572 | 527 | 482 | 447 | 438 | 445 | 491 |

**Table F.2.5-17-3c. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPAILVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| 10% Exceedance                              | -21 | -2  | -15 | -17 | 11  | 52  | 63  | 7   | -26 | -97 | -89  | -63 |
| 20% Exceedance                              | -5  | 8   | -13 | 11  | -22 | 44  | 70  | 6   | 11  | 3   | -2   | -9  |
| 30% Exceedance                              | -7  | -12 | -19 | -13 | 4   | 32  | 63  | 13  | 4   | 8   | 5    | 10  |
| 40% Exceedance                              | 6   | -12 | -22 | -10 | -4  | 33  | 58  | 27  | 1   | 4   | 5    | 5   |
| 50% Exceedance                              | 14  | -3  | -18 | -2  | 5   | 32  | 41  | 23  | 0   | 4   | 17   | 13  |
| 60% Exceedance                              | 0   | -1  | 7   | 0   | 9   | 36  | 28  | -1  | -2  | 2   | 5    | 7   |
| 70% Exceedance                              | -2  | -1  | -7  | 4   | 9   | 32  | 16  | -24 | -10 | 4   | 2    | 11  |
| 80% Exceedance                              | 2   | 0   | -1  | 2   | 3   | 0   | 12  | -23 | -16 | 0   | 4    | 8   |
| 90% Exceedance                              | 2   | 0   | -7  | 1   | -4  | 7   | 2   | 5   | -8  | 3   | 3    | 3   |
| Full Simulation Period Average <sup>a</sup> | -2  | -1  | -9  | -3  | 4   | 31  | 37  | 2   | -10 | -9  | -9   | -5  |
| Wet Water Years (28%)                       | 1   | 0   | -2  | -3  | -1  | 3   | 5   | -10 | -8  | 2   | 3    | 5   |
| Above Normal Years (14%)                    | 1   | -1  | -1  | -4  | 2   | 30  | 37  | -2  | -5  | 0   | 3    | 5   |
| Below Normal Years (18%)                    | 4   | -3  | -8  | 6   | 9   | 55  | 70  | 11  | -5  | 5   | 7    | 3   |
| Dry Water Years (24%)                       | 14  | 2   | -7  | -12 | -7  | 37  | 59  | 29  | 12  | 7   | 18   | 26  |
| Critical Water Years (16%)                  | -43 | -7  | -36 | 5   | 25  | 45  | 21  | -25 | -56 | -78 | -100 | -86 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-17-4a. Banks Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 596 | 681 | 760 | 815 | 689 | 521 | 505 | 484 | 456 | 494 | 548 | 574 |
| 20% Exceedance                              | 562 | 611 | 732 | 723 | 621 | 481 | 452 | 463 | 365 | 333 | 405 | 505 |
| 30% Exceedance                              | 555 | 590 | 697 | 675 | 515 | 454 | 436 | 440 | 348 | 311 | 365 | 469 |
| 40% Exceedance                              | 529 | 563 | 662 | 628 | 488 | 430 | 417 | 417 | 341 | 301 | 343 | 448 |
| 50% Exceedance                              | 501 | 524 | 627 | 567 | 459 | 415 | 412 | 407 | 336 | 294 | 314 | 402 |
| 60% Exceedance                              | 295 | 316 | 568 | 456 | 404 | 395 | 397 | 393 | 328 | 283 | 291 | 334 |
| 70% Exceedance                              | 278 | 294 | 512 | 405 | 369 | 379 | 377 | 368 | 315 | 272 | 275 | 299 |
| 80% Exceedance                              | 268 | 285 | 452 | 367 | 313 | 349 | 326 | 333 | 294 | 266 | 268 | 296 |
| 90% Exceedance                              | 263 | 280 | 346 | 294 | 250 | 264 | 203 | 175 | 215 | 255 | 261 | 287 |
| Full Simulation Period Average <sup>a</sup> | 432 | 462 | 585 | 546 | 462 | 410 | 390 | 381 | 339 | 323 | 351 | 407 |
| Wet Water Years (28%)                       | 268 | 288 | 470 | 388 | 329 | 304 | 270 | 247 | 252 | 268 | 271 | 295 |
| Above Normal Years (14%)                    | 279 | 290 | 542 | 544 | 436 | 406 | 408 | 405 | 326 | 268 | 266 | 303 |
| Below Normal Years (18%)                    | 533 | 541 | 606 | 573 | 464 | 426 | 418 | 401 | 331 | 294 | 337 | 462 |
| Dry Water Years (24%)                       | 536 | 570 | 615 | 632 | 534 | 445 | 424 | 423 | 344 | 314 | 376 | 444 |
| Critical Water Years (16%)                  | 605 | 689 | 773 | 666 | 605 | 527 | 506 | 507 | 503 | 516 | 545 | 578 |

**Table F.2.5-17-4b. Banks Pumping Plant South Delta Exports Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 591 | 686 | 765 | 800 | 697 | 513 | 496 | 464 | 450 | 465 | 533 | 573 |
| 20% Exceedance                              | 569 | 623 | 724 | 734 | 610 | 484 | 456 | 425 | 360 | 333 | 403 | 499 |
| 30% Exceedance                              | 550 | 594 | 687 | 691 | 515 | 457 | 432 | 408 | 341 | 318 | 369 | 473 |
| 40% Exceedance                              | 539 | 547 | 656 | 644 | 489 | 433 | 416 | 396 | 334 | 302 | 355 | 457 |
| 50% Exceedance                              | 508 | 503 | 621 | 561 | 467 | 417 | 409 | 383 | 325 | 295 | 330 | 421 |
| 60% Exceedance                              | 302 | 314 | 564 | 457 | 413 | 400 | 391 | 369 | 312 | 285 | 296 | 351 |
| 70% Exceedance                              | 280 | 293 | 503 | 407 | 377 | 381 | 353 | 327 | 301 | 272 | 279 | 318 |
| 80% Exceedance                              | 272 | 285 | 451 | 369 | 317 | 349 | 331 | 300 | 276 | 265 | 273 | 306 |
| 90% Exceedance                              | 265 | 278 | 345 | 294 | 246 | 271 | 224 | 177 | 207 | 257 | 269 | 294 |
| Full Simulation Period Average <sup>a</sup> | 435 | 462 | 580 | 548 | 463 | 411 | 389 | 358 | 329 | 323 | 355 | 413 |
| Wet Water Years (28%)                       | 270 | 288 | 466 | 379 | 327 | 301 | 270 | 232 | 243 | 269 | 275 | 301 |
| Above Normal Years (14%)                    | 283 | 289 | 534 | 541 | 438 | 403 | 394 | 358 | 310 | 265 | 274 | 317 |
| Below Normal Years (18%)                    | 537 | 533 | 600 | 569 | 467 | 430 | 417 | 373 | 320 | 294 | 346 | 466 |
| Dry Water Years (24%)                       | 544 | 577 | 620 | 645 | 537 | 451 | 425 | 402 | 338 | 319 | 383 | 457 |
| Critical Water Years (16%)                  | 599 | 692 | 754 | 679 | 605 | 527 | 508 | 495 | 490 | 506 | 532 | 569 |

**Table F.2.5-17-4c. Banks Pumping Plant South Delta Exports Salinity, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -5  | 6   | 5   | -15 | 9   | -7  | -9  | -20 | -7  | -29 | -16 | -1  |
| 20% Exceedance                              | 6   | 12  | -9  | 11  | -11 | 3   | 4   | -38 | -5  | 0   | -2  | -6  |
| 30% Exceedance                              | -4  | 5   | -10 | 16  | 0   | 3   | -4  | -33 | -8  | 6   | 4   | 4   |
| 40% Exceedance                              | 10  | -16 | -6  | 16  | 1   | 3   | -1  | -21 | -8  | 1   | 12  | 9   |
| 50% Exceedance                              | 7   | -21 | -6  | -6  | 8   | 2   | -3  | -24 | -12 | 1   | 16  | 19  |
| 60% Exceedance                              | 6   | -2  | -4  | 1   | 9   | 4   | -6  | -24 | -16 | 2   | 5   | 17  |
| 70% Exceedance                              | 3   | -1  | -9  | 2   | 8   | 2   | -23 | -40 | -13 | 0   | 4   | 18  |
| 80% Exceedance                              | 3   | 0   | 0   | 2   | 5   | -1  | 6   | -33 | -17 | -1  | 5   | 11  |
| 90% Exceedance                              | 1   | -3  | -1  | 0   | -5  | 7   | 21  | 2   | -8  | 3   | 8   | 7   |
| Full Simulation Period Average <sup>a</sup> | 3   | 1   | -5  | 2   | 1   | 1   | -1  | -23 | -10 | 0   | 4   | 6   |
| Wet Water Years (28%)                       | 2   | 0   | -4  | -8  | -2  | -3  | 1   | -15 | -9  | 2   | 4   | 7   |
| Above Normal Years (14%)                    | 5   | -1  | -8  | -3  | 1   | -3  | -14 | -47 | -16 | -3  | 8   | 14  |
| Below Normal Years (18%)                    | 4   | -8  | -6  | -4  | 3   | 4   | -1  | -29 | -11 | 1   | 9   | 4   |
| Dry Water Years (24%)                       | 8   | 7   | 5   | 13  | 4   | 6   | 1   | -21 | -6  | 5   | 7   | 13  |
| Critical Water Years (16%)                  | -6  | 3   | -18 | 13  | 0   | 0   | 2   | -11 | -13 | -11 | -13 | -9  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-17-5a. Banks Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 596 | 681 | 760 | 815 | 689 | 521 | 505 | 484 | 456 | 494 | 548 | 574 |
| 20% Exceedance                              | 562 | 611 | 732 | 723 | 621 | 481 | 452 | 463 | 365 | 333 | 405 | 505 |
| 30% Exceedance                              | 555 | 590 | 697 | 675 | 515 | 454 | 436 | 440 | 348 | 311 | 365 | 469 |
| 40% Exceedance                              | 529 | 563 | 662 | 628 | 488 | 430 | 417 | 417 | 341 | 301 | 343 | 448 |
| 50% Exceedance                              | 501 | 524 | 627 | 567 | 459 | 415 | 412 | 407 | 336 | 294 | 314 | 402 |
| 60% Exceedance                              | 295 | 316 | 568 | 456 | 404 | 395 | 397 | 393 | 328 | 283 | 291 | 334 |
| 70% Exceedance                              | 278 | 294 | 512 | 405 | 369 | 379 | 377 | 368 | 315 | 272 | 275 | 299 |
| 80% Exceedance                              | 268 | 285 | 452 | 367 | 313 | 349 | 326 | 333 | 294 | 266 | 268 | 296 |
| 90% Exceedance                              | 263 | 280 | 346 | 294 | 250 | 264 | 203 | 175 | 215 | 255 | 261 | 287 |
| Full Simulation Period Average <sup>a</sup> | 432 | 462 | 585 | 546 | 462 | 410 | 390 | 381 | 339 | 323 | 351 | 407 |
| Wet Water Years (28%)                       | 268 | 288 | 470 | 388 | 329 | 304 | 270 | 247 | 252 | 268 | 271 | 295 |
| Above Normal Years (14%)                    | 279 | 290 | 542 | 544 | 436 | 406 | 408 | 405 | 326 | 268 | 266 | 303 |
| Below Normal Years (18%)                    | 533 | 541 | 606 | 573 | 464 | 426 | 418 | 401 | 331 | 294 | 337 | 462 |
| Dry Water Years (24%)                       | 536 | 570 | 615 | 632 | 534 | 445 | 424 | 423 | 344 | 314 | 376 | 444 |
| Critical Water Years (16%)                  | 605 | 689 | 773 | 666 | 605 | 527 | 506 | 507 | 503 | 516 | 545 | 578 |

**Table F.2.5-17-5b. Banks Pumping Plant South Delta Exports Salinity, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 871 | 868 | 863 | 866 | 879 | 885 | 891 | 894 | 894 | 885 | 876 | 871 |
| 20% Exceedance                              | 852 | 850 | 843 | 843 | 857 | 862 | 868 | 872 | 869 | 866 | 858 | 855 |
| 30% Exceedance                              | 835 | 834 | 829 | 834 | 841 | 848 | 854 | 857 | 855 | 848 | 842 | 838 |
| 40% Exceedance                              | 820 | 818 | 818 | 823 | 833 | 841 | 845 | 848 | 843 | 836 | 826 | 822 |
| 50% Exceedance                              | 814 | 813 | 809 | 816 | 825 | 834 | 837 | 839 | 835 | 823 | 816 | 816 |
| 60% Exceedance                              | 805 | 804 | 801 | 804 | 810 | 815 | 820 | 824 | 819 | 813 | 809 | 807 |
| 70% Exceedance                              | 791 | 788 | 787 | 792 | 794 | 798 | 803 | 807 | 803 | 800 | 794 | 791 |
| 80% Exceedance                              | 775 | 772 | 771 | 773 | 780 | 786 | 791 | 793 | 788 | 782 | 775 | 776 |
| 90% Exceedance                              | 744 | 744 | 746 | 753 | 757 | 761 | 765 | 769 | 771 | 766 | 764 | 763 |
| Full Simulation Period Average <sup>a</sup> | 799 | 798 | 797 | 801 | 808 | 815 | 820 | 823 | 821 | 815 | 810 | 807 |
| Wet Water Years (28%)                       | 840 | 837 | 832 | 826 | 834 | 843 | 847 | 851 | 852 | 850 | 846 | 843 |
| Above Normal Years (14%)                    | 760 | 758 | 762 | 785 | 797 | 805 | 810 | 814 | 815 | 812 | 806 | 804 |
| Below Normal Years (18%)                    | 794 | 792 | 791 | 799 | 805 | 811 | 816 | 819 | 814 | 805 | 798 | 796 |
| Dry Water Years (24%)                       | 796 | 795 | 793 | 800 | 807 | 813 | 818 | 821 | 816 | 807 | 800 | 797 |
| Critical Water Years (16%)                  | 776 | 775 | 777 | 772 | 777 | 783 | 788 | 791 | 787 | 781 | 777 | 777 |

**Table F.2.5-17-5c. Banks Pumping Plant South Delta Exports Salinity, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 275 | 187 | 103 | 51  | 190 | 364 | 386 | 410 | 437 | 391 | 327 | 297 |
| 20% Exceedance                              | 290 | 239 | 111 | 120 | 236 | 381 | 416 | 409 | 504 | 533 | 453 | 350 |
| 30% Exceedance                              | 281 | 244 | 133 | 159 | 326 | 394 | 418 | 416 | 506 | 537 | 477 | 369 |
| 40% Exceedance                              | 291 | 256 | 156 | 195 | 346 | 410 | 428 | 431 | 502 | 535 | 483 | 374 |
| 50% Exceedance                              | 313 | 290 | 182 | 249 | 366 | 419 | 426 | 431 | 498 | 528 | 502 | 414 |
| 60% Exceedance                              | 509 | 488 | 233 | 347 | 406 | 419 | 423 | 431 | 491 | 530 | 517 | 472 |
| 70% Exceedance                              | 513 | 494 | 275 | 387 | 425 | 419 | 426 | 439 | 489 | 529 | 519 | 492 |
| 80% Exceedance                              | 507 | 487 | 319 | 406 | 467 | 436 | 466 | 460 | 494 | 516 | 508 | 480 |
| 90% Exceedance                              | 481 | 463 | 400 | 458 | 507 | 497 | 561 | 593 | 557 | 512 | 504 | 476 |
| Full Simulation Period Average <sup>a</sup> | 367 | 336 | 211 | 254 | 347 | 405 | 430 | 442 | 482 | 492 | 459 | 400 |
| Wet Water Years (28%)                       | 572 | 549 | 362 | 438 | 506 | 539 | 578 | 603 | 600 | 582 | 575 | 548 |
| Above Normal Years (14%)                    | 481 | 468 | 220 | 241 | 361 | 399 | 402 | 409 | 489 | 544 | 541 | 501 |
| Below Normal Years (18%)                    | 261 | 251 | 185 | 226 | 342 | 386 | 398 | 417 | 483 | 511 | 461 | 333 |
| Dry Water Years (24%)                       | 260 | 225 | 178 | 168 | 273 | 368 | 395 | 398 | 472 | 493 | 424 | 353 |
| Critical Water Years (16%)                  | 171 | 86  | 5   | 106 | 172 | 256 | 282 | 285 | 284 | 264 | 233 | 200 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-17-6a. Banks Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 955 | 954 | 950 | 949 | 958 | 966 | 969 | 971 | 972 | 963 | 960 | 957 |
| 20% Exceedance                              | 917 | 919 | 920 | 914 | 930 | 934 | 942 | 945 | 939 | 922 | 913 | 914 |
| 30% Exceedance                              | 902 | 899 | 900 | 901 | 902 | 907 | 912 | 915 | 910 | 905 | 901 | 902 |
| 40% Exceedance                              | 889 | 887 | 887 | 886 | 892 | 898 | 902 | 905 | 899 | 893 | 889 | 891 |
| 50% Exceedance                              | 880 | 879 | 877 | 879 | 883 | 887 | 891 | 893 | 888 | 877 | 876 | 878 |
| 60% Exceedance                              | 866 | 865 | 862 | 861 | 868 | 876 | 881 | 881 | 875 | 870 | 866 | 868 |
| 70% Exceedance                              | 853 | 848 | 844 | 844 | 845 | 852 | 857 | 858 | 852 | 847 | 851 | 853 |
| 80% Exceedance                              | 828 | 827 | 824 | 826 | 827 | 834 | 839 | 842 | 835 | 832 | 828 | 828 |
| 90% Exceedance                              | 791 | 791 | 788 | 791 | 795 | 800 | 803 | 802 | 796 | 796 | 797 | 797 |
| Full Simulation Period Average <sup>a</sup> | 859 | 859 | 857 | 859 | 864 | 870 | 875 | 877 | 873 | 867 | 864 | 865 |
| Wet Water Years (28%)                       | 889 | 886 | 880 | 882 | 886 | 893 | 897 | 900 | 900 | 898 | 894 | 891 |
| Above Normal Years (14%)                    | 807 | 805 | 809 | 841 | 850 | 858 | 862 | 866 | 866 | 862 | 856 | 854 |
| Below Normal Years (18%)                    | 854 | 853 | 851 | 859 | 863 | 868 | 872 | 874 | 869 | 858 | 851 | 852 |
| Dry Water Years (24%)                       | 853 | 853 | 852 | 853 | 858 | 864 | 869 | 870 | 863 | 853 | 849 | 851 |
| Critical Water Years (16%)                  | 873 | 876 | 881 | 843 | 848 | 853 | 858 | 860 | 855 | 848 | 854 | 866 |

**Table F.2.5-17-6b. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 572 | 676 | 746 | 804 | 690 | 532 | 485 | 451 | 427 | 422 | 458 | 511 |
| 20% Exceedance                              | 558 | 622 | 722 | 747 | 612 | 489 | 455 | 425 | 363 | 333 | 395 | 486 |
| 30% Exceedance                              | 547 | 589 | 681 | 690 | 520 | 453 | 434 | 409 | 340 | 318 | 365 | 469 |
| 40% Exceedance                              | 536 | 550 | 646 | 621 | 485 | 432 | 416 | 396 | 334 | 302 | 351 | 445 |
| 50% Exceedance                              | 509 | 496 | 613 | 569 | 466 | 417 | 409 | 383 | 326 | 295 | 323 | 413 |
| 60% Exceedance                              | 302 | 314 | 565 | 455 | 413 | 399 | 390 | 369 | 312 | 285 | 296 | 352 |
| 70% Exceedance                              | 280 | 293 | 503 | 408 | 377 | 381 | 357 | 331 | 300 | 272 | 278 | 316 |
| 80% Exceedance                              | 272 | 285 | 451 | 369 | 316 | 349 | 331 | 301 | 278 | 265 | 272 | 306 |
| 90% Exceedance                              | 265 | 278 | 345 | 294 | 246 | 271 | 224 | 176 | 207 | 257 | 268 | 294 |
| Full Simulation Period Average <sup>a</sup> | 429 | 460 | 576 | 548 | 464 | 413 | 389 | 355 | 322 | 315 | 342 | 400 |
| Wet Water Years (28%)                       | 270 | 288 | 466 | 380 | 327 | 301 | 271 | 232 | 243 | 269 | 275 | 301 |
| Above Normal Years (14%)                    | 284 | 288 | 534 | 540 | 438 | 403 | 394 | 359 | 310 | 265 | 274 | 316 |
| Below Normal Years (18%)                    | 535 | 538 | 598 | 580 | 470 | 427 | 414 | 374 | 321 | 295 | 343 | 457 |
| Dry Water Years (24%)                       | 545 | 577 | 617 | 638 | 534 | 451 | 425 | 402 | 338 | 319 | 383 | 457 |
| Critical Water Years (16%)                  | 561 | 675 | 729 | 681 | 614 | 542 | 508 | 474 | 450 | 454 | 458 | 494 |

**Table F.2.5-17-6c. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -383 | -277 | -204 | -144 | -268 | -435 | -484 | -520 | -545 | -541 | -502 | -446 |
| 20% Exceedance                              | -359 | -297 | -198 | -167 | -318 | -445 | -487 | -519 | -576 | -589 | -518 | -428 |
| 30% Exceedance                              | -354 | -310 | -219 | -211 | -382 | -454 | -478 | -507 | -569 | -587 | -536 | -433 |
| 40% Exceedance                              | -353 | -337 | -240 | -265 | -407 | -466 | -486 | -509 | -565 | -591 | -538 | -446 |
| 50% Exceedance                              | -370 | -383 | -264 | -310 | -417 | -470 | -482 | -510 | -563 | -582 | -553 | -465 |
| 60% Exceedance                              | -564 | -550 | -297 | -406 | -455 | -477 | -490 | -512 | -563 | -585 | -570 | -516 |
| 70% Exceedance                              | -573 | -555 | -341 | -436 | -468 | -471 | -500 | -527 | -552 | -575 | -572 | -537 |
| 80% Exceedance                              | -556 | -542 | -372 | -457 | -510 | -486 | -508 | -541 | -557 | -567 | -555 | -522 |
| 90% Exceedance                              | -526 | -514 | -443 | -497 | -549 | -529 | -578 | -626 | -590 | -539 | -528 | -503 |
| Full Simulation Period Average <sup>a</sup> | -430 | -398 | -282 | -310 | -400 | -458 | -486 | -522 | -551 | -552 | -521 | -466 |
| Wet Water Years (28%)                       | -619 | -598 | -414 | -502 | -559 | -592 | -626 | -667 | -657 | -628 | -619 | -589 |
| Above Normal Years (14%)                    | -523 | -517 | -275 | -300 | -413 | -455 | -468 | -507 | -555 | -597 | -582 | -538 |
| Below Normal Years (18%)                    | -319 | -316 | -253 | -278 | -393 | -441 | -459 | -500 | -548 | -563 | -509 | -395 |
| Dry Water Years (24%)                       | -308 | -276 | -234 | -215 | -324 | -414 | -444 | -468 | -526 | -534 | -465 | -394 |
| Critical Water Years (16%)                  | -312 | -201 | -152 | -162 | -234 | -310 | -349 | -386 | -404 | -394 | -395 | -372 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-17-7a. Banks Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 955 | 954 | 950 | 949 | 958 | 966 | 969 | 971 | 972 | 963 | 960 | 957 |
| 20% Exceedance                              | 917 | 919 | 920 | 914 | 930 | 934 | 942 | 945 | 939 | 922 | 913 | 914 |
| 30% Exceedance                              | 902 | 899 | 900 | 901 | 902 | 907 | 912 | 915 | 910 | 905 | 901 | 902 |
| 40% Exceedance                              | 889 | 887 | 887 | 886 | 892 | 898 | 902 | 905 | 899 | 893 | 889 | 891 |
| 50% Exceedance                              | 880 | 879 | 877 | 879 | 883 | 887 | 891 | 893 | 888 | 877 | 876 | 878 |
| 60% Exceedance                              | 866 | 865 | 862 | 861 | 868 | 876 | 881 | 881 | 875 | 870 | 866 | 868 |
| 70% Exceedance                              | 853 | 848 | 844 | 844 | 845 | 852 | 857 | 858 | 852 | 847 | 851 | 853 |
| 80% Exceedance                              | 828 | 827 | 824 | 826 | 827 | 834 | 839 | 842 | 835 | 832 | 828 | 828 |
| 90% Exceedance                              | 791 | 791 | 788 | 791 | 795 | 800 | 803 | 802 | 796 | 796 | 797 | 797 |
| Full Simulation Period Average <sup>a</sup> | 859 | 859 | 857 | 859 | 864 | 870 | 875 | 877 | 873 | 867 | 864 | 865 |
| Wet Water Years (28%)                       | 889 | 886 | 880 | 882 | 886 | 893 | 897 | 900 | 900 | 898 | 894 | 891 |
| Above Normal Years (14%)                    | 807 | 805 | 809 | 841 | 850 | 858 | 862 | 866 | 866 | 862 | 856 | 854 |
| Below Normal Years (18%)                    | 854 | 853 | 851 | 859 | 863 | 868 | 872 | 874 | 869 | 858 | 851 | 852 |
| Dry Water Years (24%)                       | 853 | 853 | 852 | 853 | 858 | 864 | 869 | 870 | 863 | 853 | 849 | 851 |
| Critical Water Years (16%)                  | 873 | 876 | 881 | 843 | 848 | 853 | 858 | 860 | 855 | 848 | 854 | 866 |

**Table F.2.5-17-7b. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 578 | 682 | 746 | 798 | 699 | 573 | 567 | 493 | 427 | 395 | 466 | 516 |
| 20% Exceedance                              | 561 | 623 | 727 | 730 | 618 | 525 | 522 | 469 | 384 | 339 | 401 | 500 |
| 30% Exceedance                              | 548 | 583 | 682 | 668 | 520 | 486 | 498 | 453 | 355 | 319 | 375 | 474 |
| 40% Exceedance                              | 537 | 554 | 643 | 622 | 487 | 464 | 476 | 442 | 348 | 307 | 352 | 449 |
| 50% Exceedance                              | 508 | 509 | 608 | 570 | 465 | 448 | 453 | 430 | 341 | 296 | 332 | 416 |
| 60% Exceedance                              | 298 | 315 | 568 | 456 | 413 | 428 | 424 | 393 | 326 | 288 | 299 | 345 |
| 70% Exceedance                              | 276 | 293 | 503 | 408 | 378 | 410 | 391 | 347 | 306 | 275 | 279 | 312 |
| 80% Exceedance                              | 271 | 286 | 453 | 369 | 316 | 349 | 337 | 310 | 278 | 266 | 271 | 304 |
| 90% Exceedance                              | 267 | 280 | 345 | 294 | 246 | 271 | 206 | 180 | 207 | 259 | 268 | 290 |
| Full Simulation Period Average <sup>a</sup> | 431 | 462 | 578 | 545 | 466 | 441 | 427 | 383 | 331 | 316 | 344 | 404 |
| Wet Water Years (28%)                       | 269 | 289 | 468 | 381 | 327 | 308 | 275 | 238 | 244 | 270 | 274 | 300 |
| Above Normal Years (14%)                    | 282 | 289 | 540 | 541 | 438 | 436 | 445 | 403 | 323 | 271 | 276 | 312 |
| Below Normal Years (18%)                    | 537 | 537 | 602 | 585 | 474 | 480 | 489 | 414 | 330 | 296 | 346 | 466 |
| Dry Water Years (24%)                       | 550 | 578 | 614 | 626 | 533 | 484 | 482 | 451 | 357 | 320 | 391 | 468 |
| Critical Water Years (16%)                  | 565 | 680 | 737 | 670 | 623 | 567 | 526 | 484 | 454 | 451 | 454 | 498 |

**Table F.2.5-17-7c. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -377 | -271 | -204 | -151 | -259 | -393 | -402 | -478 | -545 | -568 | -494 | -441 |
| 20% Exceedance                              | -356 | -296 | -194 | -184 | -313 | -409 | -420 | -476 | -555 | -583 | -512 | -414 |
| 30% Exceedance                              | -353 | -316 | -218 | -232 | -382 | -421 | -413 | -463 | -555 | -586 | -525 | -427 |
| 40% Exceedance                              | -352 | -333 | -243 | -264 | -406 | -435 | -426 | -463 | -551 | -586 | -537 | -442 |
| 50% Exceedance                              | -372 | -370 | -269 | -309 | -418 | -439 | -438 | -462 | -547 | -581 | -545 | -462 |
| 60% Exceedance                              | -568 | -550 | -294 | -404 | -454 | -448 | -457 | -488 | -548 | -582 | -567 | -522 |
| 70% Exceedance                              | -577 | -555 | -341 | -436 | -468 | -442 | -465 | -511 | -546 | -573 | -572 | -542 |
| 80% Exceedance                              | -557 | -541 | -371 | -457 | -511 | -485 | -502 | -532 | -557 | -567 | -556 | -524 |
| 90% Exceedance                              | -524 | -511 | -443 | -497 | -549 | -529 | -597 | -622 | -590 | -537 | -529 | -507 |
| Full Simulation Period Average <sup>a</sup> | -428 | -397 | -279 | -314 | -398 | -430 | -448 | -494 | -542 | -551 | -519 | -462 |
| Wet Water Years (28%)                       | -620 | -597 | -412 | -501 | -559 | -585 | -623 | -662 | -656 | -628 | -620 | -591 |
| Above Normal Years (14%)                    | -525 | -516 | -269 | -300 | -412 | -422 | -417 | -463 | -543 | -591 | -581 | -542 |
| Below Normal Years (18%)                    | -318 | -316 | -249 | -273 | -389 | -388 | -383 | -460 | -539 | -562 | -505 | -387 |
| Dry Water Years (24%)                       | -303 | -275 | -238 | -227 | -325 | -380 | -387 | -420 | -507 | -533 | -457 | -383 |
| Critical Water Years (16%)                  | -308 | -196 | -144 | -174 | -225 | -286 | -332 | -376 | -400 | -398 | -400 | -368 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-17-8a. Banks Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 955 | 954 | 950 | 949 | 958 | 966 | 969 | 971 | 972 | 963 | 960 | 957 |
| 20% Exceedance                              | 917 | 919 | 920 | 914 | 930 | 934 | 942 | 945 | 939 | 922 | 913 | 914 |
| 30% Exceedance                              | 902 | 899 | 900 | 901 | 902 | 907 | 912 | 915 | 910 | 905 | 901 | 902 |
| 40% Exceedance                              | 889 | 887 | 887 | 886 | 892 | 898 | 902 | 905 | 899 | 893 | 889 | 891 |
| 50% Exceedance                              | 880 | 879 | 877 | 879 | 883 | 887 | 891 | 893 | 888 | 877 | 876 | 878 |
| 60% Exceedance                              | 866 | 865 | 862 | 861 | 868 | 876 | 881 | 881 | 875 | 870 | 866 | 868 |
| 70% Exceedance                              | 853 | 848 | 844 | 844 | 845 | 852 | 857 | 858 | 852 | 847 | 851 | 853 |
| 80% Exceedance                              | 828 | 827 | 824 | 826 | 827 | 834 | 839 | 842 | 835 | 832 | 828 | 828 |
| 90% Exceedance                              | 791 | 791 | 788 | 791 | 795 | 800 | 803 | 802 | 796 | 796 | 797 | 797 |
| Full Simulation Period Average <sup>a</sup> | 859 | 859 | 857 | 859 | 864 | 870 | 875 | 877 | 873 | 867 | 864 | 865 |
| Wet Water Years (28%)                       | 889 | 886 | 880 | 882 | 886 | 893 | 897 | 900 | 900 | 898 | 894 | 891 |
| Above Normal Years (14%)                    | 807 | 805 | 809 | 841 | 850 | 858 | 862 | 866 | 866 | 862 | 856 | 854 |
| Below Normal Years (18%)                    | 854 | 853 | 851 | 859 | 863 | 868 | 872 | 874 | 869 | 858 | 851 | 852 |
| Dry Water Years (24%)                       | 853 | 853 | 852 | 853 | 858 | 864 | 869 | 870 | 863 | 853 | 849 | 851 |
| Critical Water Years (16%)                  | 873 | 876 | 881 | 843 | 848 | 853 | 858 | 860 | 855 | 848 | 854 | 866 |

**Table F.2.5-17-8b. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPAILVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 575 | 679 | 745 | 798 | 700 | 573 | 568 | 491 | 431 | 397 | 460 | 511 |
| 20% Exceedance                              | 557 | 619 | 720 | 733 | 600 | 525 | 522 | 469 | 376 | 336 | 402 | 496 |
| 30% Exceedance                              | 548 | 577 | 678 | 662 | 519 | 486 | 499 | 453 | 353 | 319 | 370 | 479 |
| 40% Exceedance                              | 535 | 551 | 640 | 617 | 484 | 464 | 475 | 444 | 343 | 305 | 348 | 454 |
| 50% Exceedance                              | 515 | 521 | 609 | 565 | 464 | 447 | 453 | 430 | 336 | 299 | 331 | 415 |
| 60% Exceedance                              | 296 | 315 | 575 | 456 | 413 | 432 | 425 | 392 | 326 | 285 | 297 | 341 |
| 70% Exceedance                              | 275 | 293 | 505 | 410 | 378 | 411 | 393 | 344 | 305 | 276 | 277 | 310 |
| 80% Exceedance                              | 270 | 285 | 451 | 369 | 316 | 349 | 337 | 310 | 278 | 266 | 271 | 303 |
| 90% Exceedance                              | 265 | 280 | 339 | 295 | 246 | 271 | 205 | 180 | 207 | 258 | 263 | 290 |
| Full Simulation Period Average <sup>a</sup> | 430 | 460 | 577 | 544 | 465 | 441 | 427 | 383 | 329 | 314 | 342 | 402 |
| Wet Water Years (28%)                       | 269 | 288 | 468 | 384 | 328 | 308 | 274 | 237 | 243 | 270 | 274 | 300 |
| Above Normal Years (14%)                    | 280 | 288 | 541 | 540 | 438 | 435 | 445 | 403 | 321 | 268 | 269 | 308 |
| Below Normal Years (18%)                    | 537 | 538 | 599 | 579 | 473 | 480 | 489 | 413 | 327 | 298 | 344 | 466 |
| Dry Water Years (24%)                       | 550 | 572 | 608 | 620 | 527 | 482 | 482 | 452 | 356 | 321 | 395 | 470 |
| Critical Water Years (16%)                  | 561 | 682 | 736 | 671 | 630 | 572 | 527 | 482 | 447 | 438 | 445 | 491 |

**Table F.2.5-17-8c. Banks Pumping Plant South Delta Exports Salinity, Alt2woTUCPAILVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -380 | -275 | -205 | -150 | -258 | -393 | -401 | -480 | -541 | -566 | -500 | -446 |
| 20% Exceedance                              | -360 | -300 | -201 | -181 | -331 | -410 | -420 | -476 | -563 | -586 | -511 | -418 |
| 30% Exceedance                              | -354 | -322 | -222 | -239 | -383 | -421 | -413 | -462 | -557 | -586 | -530 | -423 |
| 40% Exceedance                              | -354 | -336 | -247 | -269 | -408 | -435 | -426 | -461 | -556 | -588 | -541 | -437 |
| 50% Exceedance                              | -364 | -358 | -268 | -314 | -420 | -440 | -438 | -462 | -552 | -579 | -546 | -463 |
| 60% Exceedance                              | -570 | -549 | -287 | -404 | -454 | -444 | -456 | -489 | -549 | -585 | -569 | -526 |
| 70% Exceedance                              | -577 | -554 | -340 | -434 | -467 | -440 | -464 | -514 | -547 | -571 | -573 | -543 |
| 80% Exceedance                              | -558 | -542 | -373 | -457 | -511 | -485 | -502 | -532 | -557 | -566 | -556 | -525 |
| 90% Exceedance                              | -526 | -511 | -449 | -496 | -549 | -529 | -597 | -622 | -590 | -538 | -534 | -507 |
| Full Simulation Period Average <sup>a</sup> | -429 | -398 | -281 | -315 | -399 | -429 | -448 | -494 | -545 | -553 | -522 | -463 |
| Wet Water Years (28%)                       | -620 | -598 | -412 | -497 | -558 | -586 | -623 | -662 | -656 | -628 | -620 | -591 |
| Above Normal Years (14%)                    | -527 | -517 | -268 | -300 | -413 | -422 | -417 | -463 | -544 | -594 | -587 | -546 |
| Below Normal Years (18%)                    | -317 | -315 | -252 | -279 | -390 | -388 | -384 | -461 | -542 | -560 | -508 | -387 |
| Dry Water Years (24%)                       | -303 | -281 | -243 | -233 | -332 | -382 | -386 | -418 | -508 | -532 | -454 | -381 |
| Critical Water Years (16%)                  | -312 | -194 | -145 | -173 | -218 | -281 | -331 | -378 | -408 | -410 | -409 | -375 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-17-9a. Banks Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 955 | 954 | 950 | 949 | 958 | 966 | 969 | 971 | 972 | 963 | 960 | 957 |
| 20% Exceedance                              | 917 | 919 | 920 | 914 | 930 | 934 | 942 | 945 | 939 | 922 | 913 | 914 |
| 30% Exceedance                              | 902 | 899 | 900 | 901 | 902 | 907 | 912 | 915 | 910 | 905 | 901 | 902 |
| 40% Exceedance                              | 889 | 887 | 887 | 886 | 892 | 898 | 902 | 905 | 899 | 893 | 889 | 891 |
| 50% Exceedance                              | 880 | 879 | 877 | 879 | 883 | 887 | 891 | 893 | 888 | 877 | 876 | 878 |
| 60% Exceedance                              | 866 | 865 | 862 | 861 | 868 | 876 | 881 | 881 | 875 | 870 | 866 | 868 |
| 70% Exceedance                              | 853 | 848 | 844 | 844 | 845 | 852 | 857 | 858 | 852 | 847 | 851 | 853 |
| 80% Exceedance                              | 828 | 827 | 824 | 826 | 827 | 834 | 839 | 842 | 835 | 832 | 828 | 828 |
| 90% Exceedance                              | 791 | 791 | 788 | 791 | 795 | 800 | 803 | 802 | 796 | 796 | 797 | 797 |
| Full Simulation Period Average <sup>a</sup> | 859 | 859 | 857 | 859 | 864 | 870 | 875 | 877 | 873 | 867 | 864 | 865 |
| Wet Water Years (28%)                       | 889 | 886 | 880 | 882 | 886 | 893 | 897 | 900 | 900 | 898 | 894 | 891 |
| Above Normal Years (14%)                    | 807 | 805 | 809 | 841 | 850 | 858 | 862 | 866 | 866 | 862 | 856 | 854 |
| Below Normal Years (18%)                    | 854 | 853 | 851 | 859 | 863 | 868 | 872 | 874 | 869 | 858 | 851 | 852 |
| Dry Water Years (24%)                       | 853 | 853 | 852 | 853 | 858 | 864 | 869 | 870 | 863 | 853 | 849 | 851 |
| Critical Water Years (16%)                  | 873 | 876 | 881 | 843 | 848 | 853 | 858 | 860 | 855 | 848 | 854 | 866 |

**Table F.2.5-17-9b. Banks Pumping Plant South Delta Exports Salinity, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 591 | 686 | 765 | 800 | 697 | 513 | 496 | 464 | 450 | 465 | 533 | 573 |
| 20% Exceedance                              | 569 | 623 | 724 | 734 | 610 | 484 | 456 | 425 | 360 | 333 | 403 | 499 |
| 30% Exceedance                              | 550 | 594 | 687 | 691 | 515 | 457 | 432 | 408 | 341 | 318 | 369 | 473 |
| 40% Exceedance                              | 539 | 547 | 656 | 644 | 489 | 433 | 416 | 396 | 334 | 302 | 355 | 457 |
| 50% Exceedance                              | 508 | 503 | 621 | 561 | 467 | 417 | 409 | 383 | 325 | 295 | 330 | 421 |
| 60% Exceedance                              | 302 | 314 | 564 | 457 | 413 | 400 | 391 | 369 | 312 | 285 | 296 | 351 |
| 70% Exceedance                              | 280 | 293 | 503 | 407 | 377 | 381 | 353 | 327 | 301 | 272 | 279 | 318 |
| 80% Exceedance                              | 272 | 285 | 451 | 369 | 317 | 349 | 331 | 300 | 276 | 265 | 273 | 306 |
| 90% Exceedance                              | 265 | 278 | 345 | 294 | 246 | 271 | 224 | 177 | 207 | 257 | 269 | 294 |
| Full Simulation Period Average <sup>a</sup> | 435 | 462 | 580 | 548 | 463 | 411 | 389 | 358 | 329 | 323 | 355 | 413 |
| Wet Water Years (28%)                       | 270 | 288 | 466 | 379 | 327 | 301 | 270 | 232 | 243 | 269 | 275 | 301 |
| Above Normal Years (14%)                    | 283 | 289 | 534 | 541 | 438 | 403 | 394 | 358 | 310 | 265 | 274 | 317 |
| Below Normal Years (18%)                    | 537 | 533 | 600 | 569 | 467 | 430 | 417 | 373 | 320 | 294 | 346 | 466 |
| Dry Water Years (24%)                       | 544 | 577 | 620 | 645 | 537 | 451 | 425 | 402 | 338 | 319 | 383 | 457 |
| Critical Water Years (16%)                  | 599 | 692 | 754 | 679 | 605 | 527 | 508 | 495 | 490 | 506 | 532 | 569 |

**Table F.2.5-17-9c. Banks Pumping Plant South Delta Exports Salinity, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -364 | -267 | -185 | -148 | -261 | -453 | -474 | -507 | -522 | -499 | -427 | -384 |
| 20% Exceedance                              | -349 | -296 | -197 | -180 | -320 | -450 | -486 | -519 | -579 | -589 | -510 | -415 |
| 30% Exceedance                              | -351 | -305 | -213 | -210 | -387 | -450 | -480 | -508 | -569 | -587 | -532 | -428 |
| 40% Exceedance                              | -350 | -340 | -231 | -242 | -404 | -466 | -486 | -509 | -565 | -591 | -534 | -434 |
| 50% Exceedance                              | -372 | -376 | -257 | -318 | -416 | -471 | -482 | -509 | -563 | -582 | -546 | -457 |
| 60% Exceedance                              | -564 | -550 | -298 | -404 | -455 | -476 | -489 | -512 | -563 | -585 | -570 | -517 |
| 70% Exceedance                              | -573 | -555 | -341 | -437 | -468 | -471 | -503 | -531 | -551 | -575 | -572 | -536 |
| 80% Exceedance                              | -556 | -542 | -372 | -457 | -509 | -486 | -507 | -542 | -559 | -567 | -555 | -522 |
| 90% Exceedance                              | -526 | -514 | -443 | -497 | -549 | -529 | -579 | -625 | -590 | -539 | -528 | -503 |
| Full Simulation Period Average <sup>a</sup> | -424 | -396 | -277 | -311 | -402 | -460 | -486 | -519 | -545 | -544 | -509 | -452 |
| Wet Water Years (28%)                       | -618 | -598 | -414 | -502 | -559 | -592 | -627 | -667 | -657 | -628 | -618 | -589 |
| Above Normal Years (14%)                    | -524 | -516 | -275 | -300 | -413 | -455 | -468 | -507 | -556 | -597 | -582 | -537 |
| Below Normal Years (18%)                    | -318 | -320 | -251 | -290 | -396 | -439 | -455 | -501 | -549 | -564 | -506 | -386 |
| Dry Water Years (24%)                       | -309 | -276 | -232 | -208 | -321 | -413 | -444 | -468 | -525 | -534 | -465 | -394 |
| Critical Water Years (16%)                  | -275 | -184 | -127 | -165 | -243 | -326 | -350 | -364 | -364 | -342 | -322 | -297 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-17-10a. Banks Pumping Plant South Delta Exports Salinity, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 955 | 954 | 950 | 949 | 958 | 966 | 969 | 971 | 972 | 963 | 960 | 957 |
| 20% Exceedance                              | 917 | 919 | 920 | 914 | 930 | 934 | 942 | 945 | 939 | 922 | 913 | 914 |
| 30% Exceedance                              | 902 | 899 | 900 | 901 | 902 | 907 | 912 | 915 | 910 | 905 | 901 | 902 |
| 40% Exceedance                              | 889 | 887 | 887 | 886 | 892 | 898 | 902 | 905 | 899 | 893 | 889 | 891 |
| 50% Exceedance                              | 880 | 879 | 877 | 879 | 883 | 887 | 891 | 893 | 888 | 877 | 876 | 878 |
| 60% Exceedance                              | 866 | 865 | 862 | 861 | 868 | 876 | 881 | 881 | 875 | 870 | 866 | 868 |
| 70% Exceedance                              | 853 | 848 | 844 | 844 | 845 | 852 | 857 | 858 | 852 | 847 | 851 | 853 |
| 80% Exceedance                              | 828 | 827 | 824 | 826 | 827 | 834 | 839 | 842 | 835 | 832 | 828 | 828 |
| 90% Exceedance                              | 791 | 791 | 788 | 791 | 795 | 800 | 803 | 802 | 796 | 796 | 797 | 797 |
| Full Simulation Period Average <sup>a</sup> | 859 | 859 | 857 | 859 | 864 | 870 | 875 | 877 | 873 | 867 | 864 | 865 |
| Wet Water Years (28%)                       | 889 | 886 | 880 | 882 | 886 | 893 | 897 | 900 | 900 | 898 | 894 | 891 |
| Above Normal Years (14%)                    | 807 | 805 | 809 | 841 | 850 | 858 | 862 | 866 | 866 | 862 | 856 | 854 |
| Below Normal Years (18%)                    | 854 | 853 | 851 | 859 | 863 | 868 | 872 | 874 | 869 | 858 | 851 | 852 |
| Dry Water Years (24%)                       | 853 | 853 | 852 | 853 | 858 | 864 | 869 | 870 | 863 | 853 | 849 | 851 |
| Critical Water Years (16%)                  | 873 | 876 | 881 | 843 | 848 | 853 | 858 | 860 | 855 | 848 | 854 | 866 |

**Table F.2.5-17-10b. Banks Pumping Plant South Delta Exports Salinity, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 596 | 681 | 760 | 815 | 689 | 521 | 505 | 484 | 456 | 494 | 548 | 574 |
| 20% Exceedance                              | 562 | 611 | 732 | 723 | 621 | 481 | 452 | 463 | 365 | 333 | 405 | 505 |
| 30% Exceedance                              | 555 | 590 | 697 | 675 | 515 | 454 | 436 | 440 | 348 | 311 | 365 | 469 |
| 40% Exceedance                              | 529 | 563 | 662 | 628 | 488 | 430 | 417 | 417 | 341 | 301 | 343 | 448 |
| 50% Exceedance                              | 501 | 524 | 627 | 567 | 459 | 415 | 412 | 407 | 336 | 294 | 314 | 402 |
| 60% Exceedance                              | 295 | 316 | 568 | 456 | 404 | 395 | 397 | 393 | 328 | 283 | 291 | 334 |
| 70% Exceedance                              | 278 | 294 | 512 | 405 | 369 | 379 | 377 | 368 | 315 | 272 | 275 | 299 |
| 80% Exceedance                              | 268 | 285 | 452 | 367 | 313 | 349 | 326 | 333 | 294 | 266 | 268 | 296 |
| 90% Exceedance                              | 263 | 280 | 346 | 294 | 250 | 264 | 203 | 175 | 215 | 255 | 261 | 287 |
| Full Simulation Period Average <sup>a</sup> | 432 | 462 | 585 | 546 | 462 | 410 | 390 | 381 | 339 | 323 | 351 | 407 |
| Wet Water Years (28%)                       | 268 | 288 | 470 | 388 | 329 | 304 | 270 | 247 | 252 | 268 | 271 | 295 |
| Above Normal Years (14%)                    | 279 | 290 | 542 | 544 | 436 | 406 | 408 | 405 | 326 | 268 | 266 | 303 |
| Below Normal Years (18%)                    | 533 | 541 | 606 | 573 | 464 | 426 | 418 | 401 | 331 | 294 | 337 | 462 |
| Dry Water Years (24%)                       | 536 | 570 | 615 | 632 | 534 | 445 | 424 | 423 | 344 | 314 | 376 | 444 |
| Critical Water Years (16%)                  | 605 | 689 | 773 | 666 | 605 | 527 | 506 | 507 | 503 | 516 | 545 | 578 |

**Table F.2.5-17-10c. Banks Pumping Plant South Delta Exports Salinity, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -359 | -273 | -189 | -133 | -269 | -445 | -464 | -487 | -516 | -469 | -411 | -383 |
| 20% Exceedance                              | -355 | -308 | -188 | -191 | -309 | -453 | -490 | -482 | -574 | -589 | -508 | -409 |
| 30% Exceedance                              | -347 | -310 | -203 | -225 | -387 | -453 | -476 | -475 | -561 | -594 | -536 | -432 |
| 40% Exceedance                              | -360 | -324 | -225 | -259 | -404 | -468 | -485 | -488 | -557 | -592 | -546 | -442 |
| 50% Exceedance                              | -379 | -355 | -250 | -312 | -424 | -472 | -480 | -485 | -552 | -583 | -562 | -476 |
| 60% Exceedance                              | -571 | -549 | -294 | -404 | -464 | -480 | -483 | -488 | -547 | -587 | -575 | -533 |
| 70% Exceedance                              | -575 | -554 | -332 | -438 | -477 | -473 | -480 | -491 | -538 | -576 | -576 | -554 |
| 80% Exceedance                              | -559 | -542 | -372 | -459 | -514 | -485 | -513 | -508 | -541 | -566 | -560 | -533 |
| 90% Exceedance                              | -528 | -511 | -442 | -496 | -544 | -535 | -599 | -626 | -582 | -541 | -536 | -510 |
| Full Simulation Period Average <sup>a</sup> | -427 | -397 | -272 | -313 | -403 | -461 | -484 | -496 | -535 | -544 | -512 | -458 |
| Wet Water Years (28%)                       | -621 | -598 | -410 | -494 | -557 | -589 | -628 | -652 | -648 | -630 | -623 | -596 |
| Above Normal Years (14%)                    | -528 | -516 | -267 | -297 | -414 | -452 | -454 | -461 | -539 | -594 | -590 | -552 |
| Below Normal Years (18%)                    | -321 | -312 | -245 | -285 | -399 | -443 | -454 | -473 | -538 | -564 | -515 | -390 |
| Dry Water Years (24%)                       | -317 | -283 | -237 | -221 | -325 | -419 | -445 | -448 | -520 | -539 | -472 | -407 |
| Critical Water Years (16%)                  | -269 | -187 | -108 | -177 | -242 | -326 | -352 | -353 | -351 | -332 | -309 | -289 |

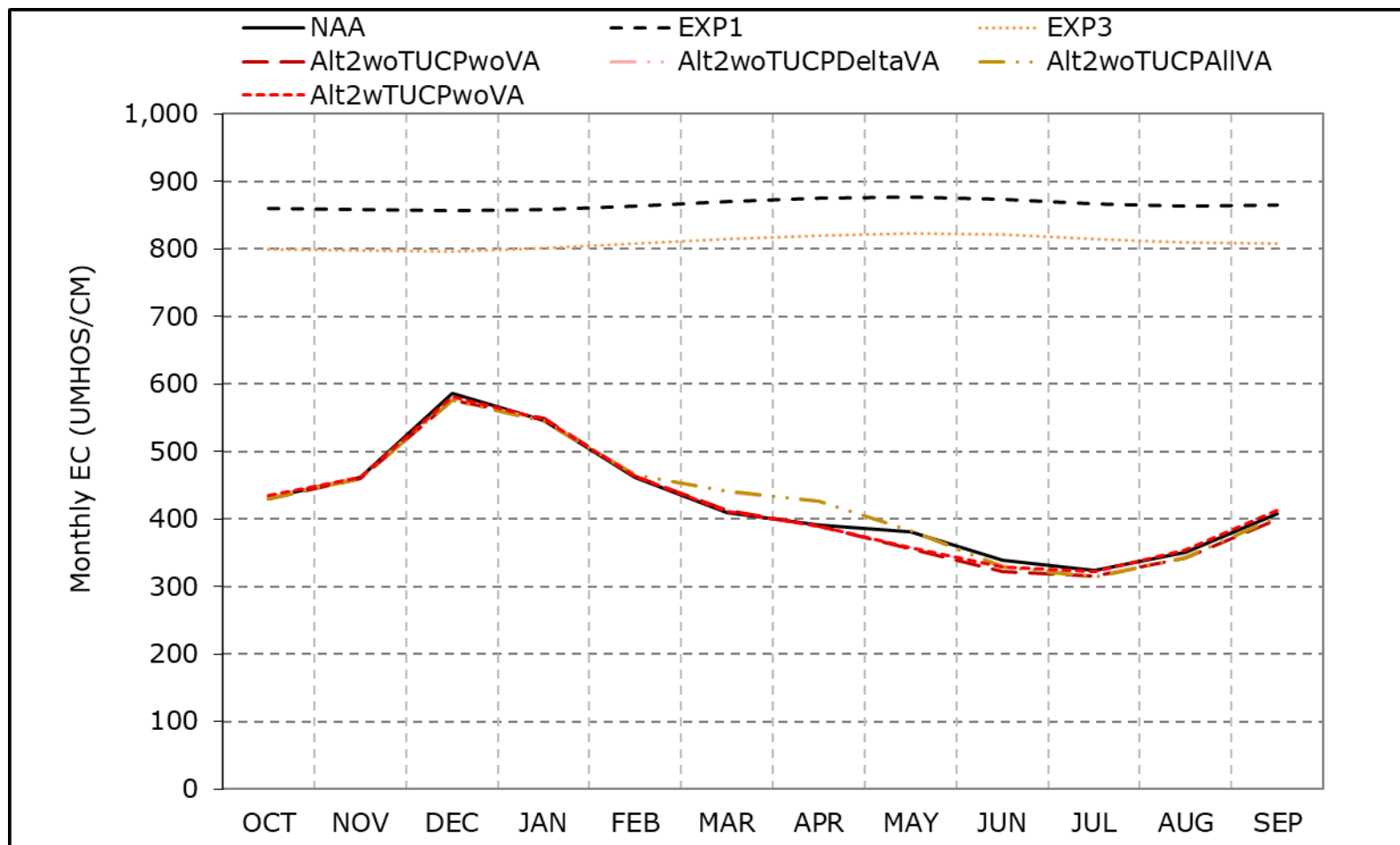
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-17-1. Banks Pumping Plant South Delta Exports Salinity, Long-Term Average EC**

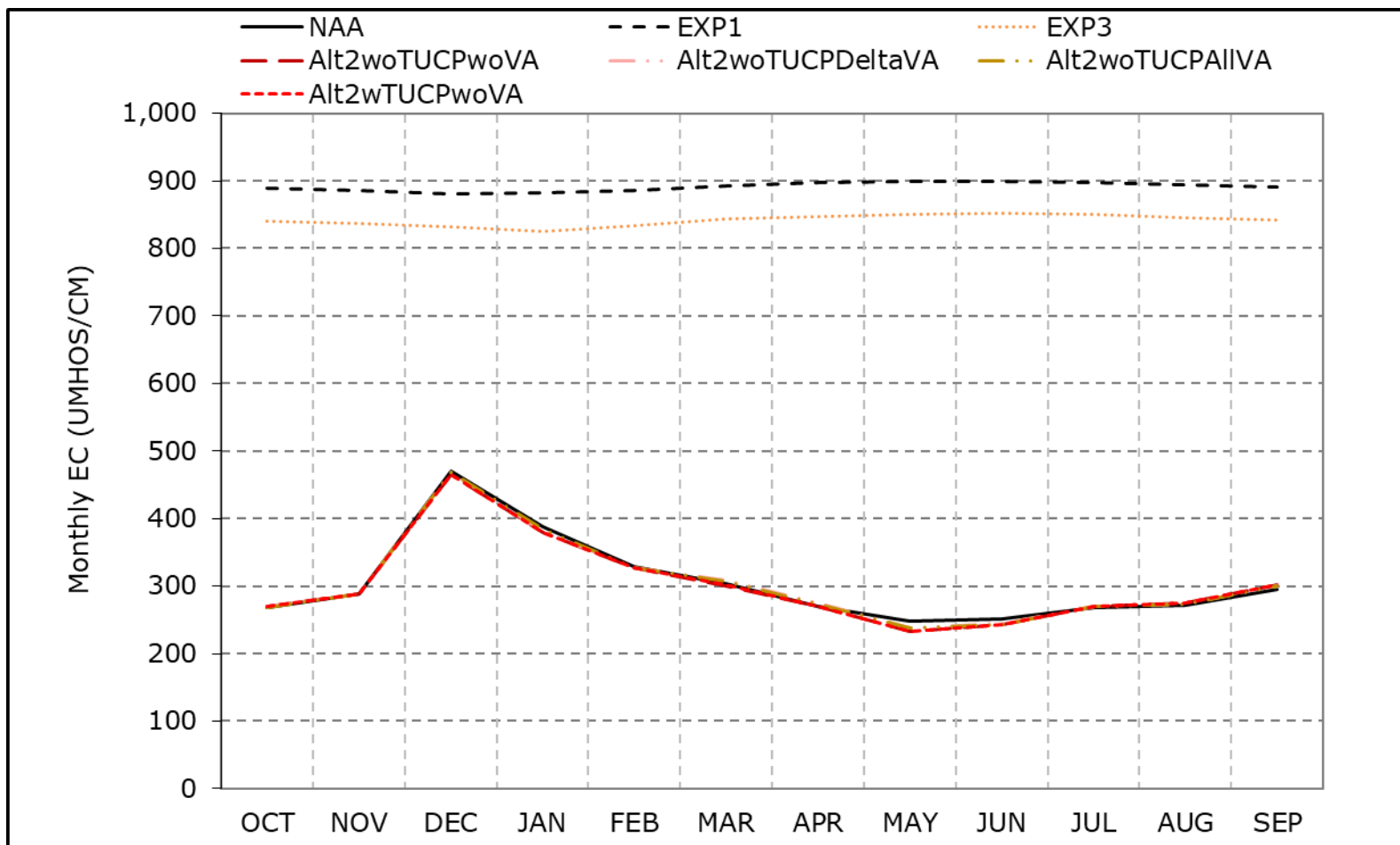


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-2. Banks Pumping Plant South Delta Exports Salinity, Wet Year Average EC**

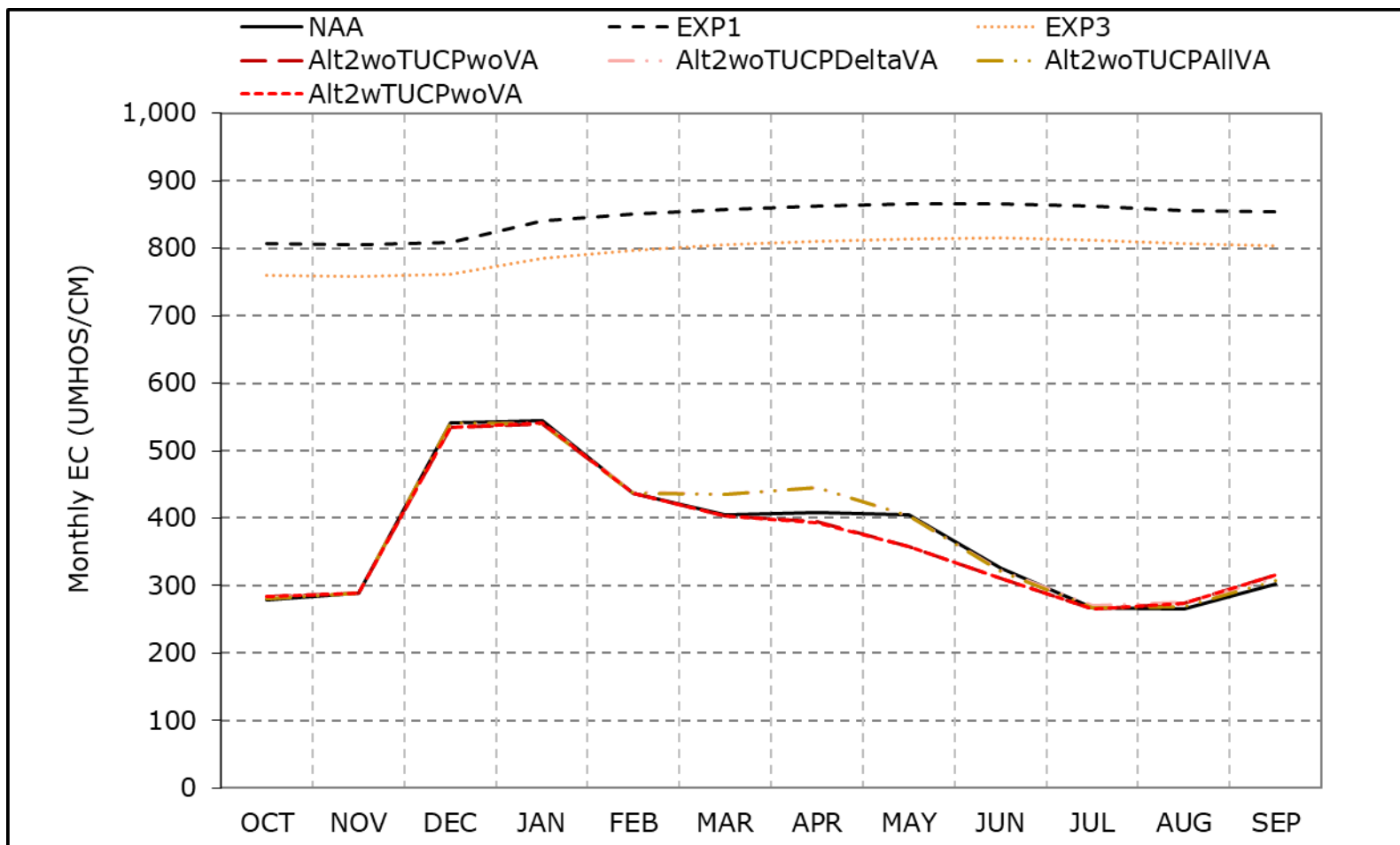


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-3. Banks Pumping Plant South Delta Exports Salinity, Above Normal Year Average EC**

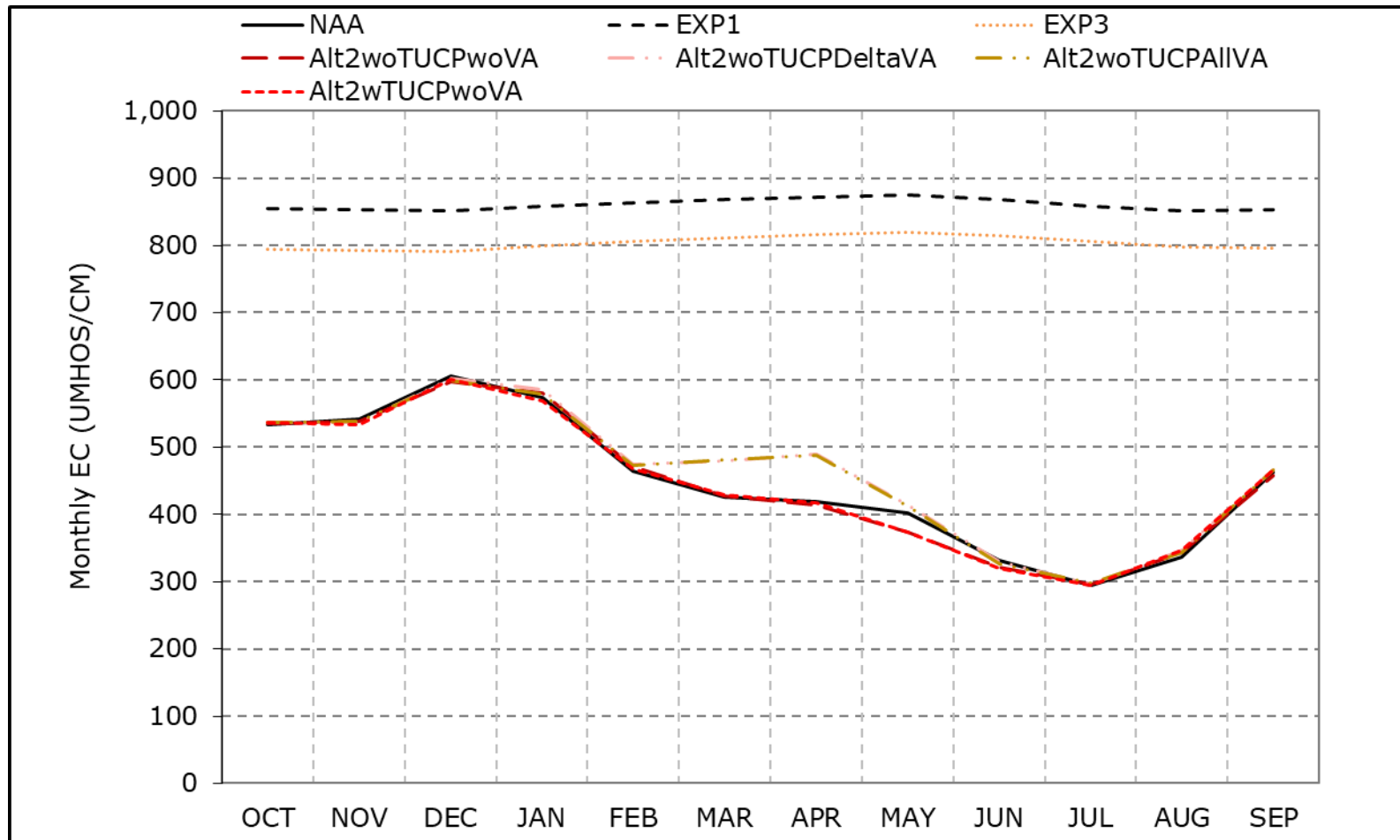


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-4. Banks Pumping Plant South Delta Exports Salinity, Below Normal Year Average EC**



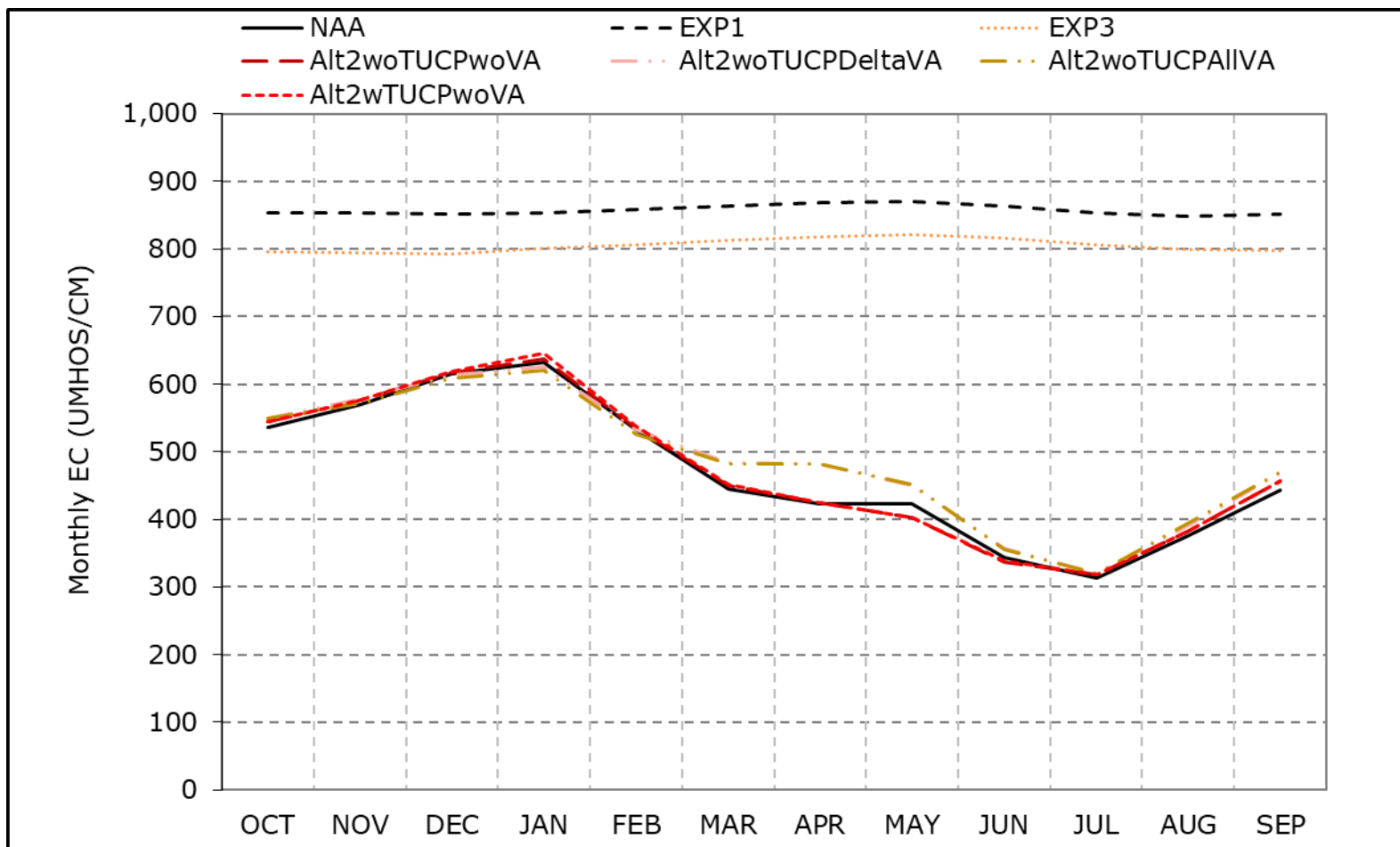
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-17-5. Banks Pumping Plant South Delta Exports Salinity, Dry Year  
Average EC**

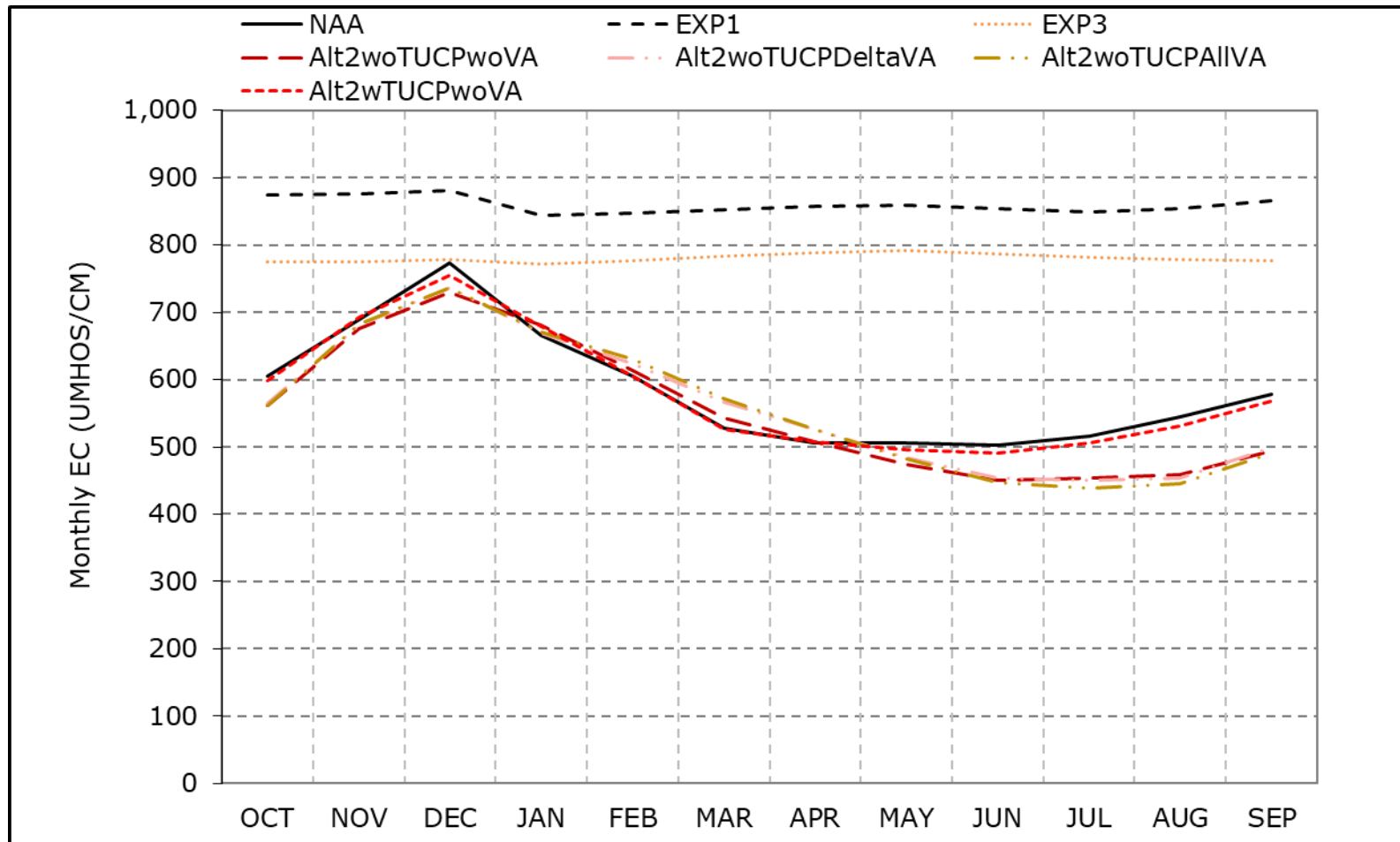


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-6. Banks Pumping Plant South Delta Exports Salinity, Critical Year Average EC**

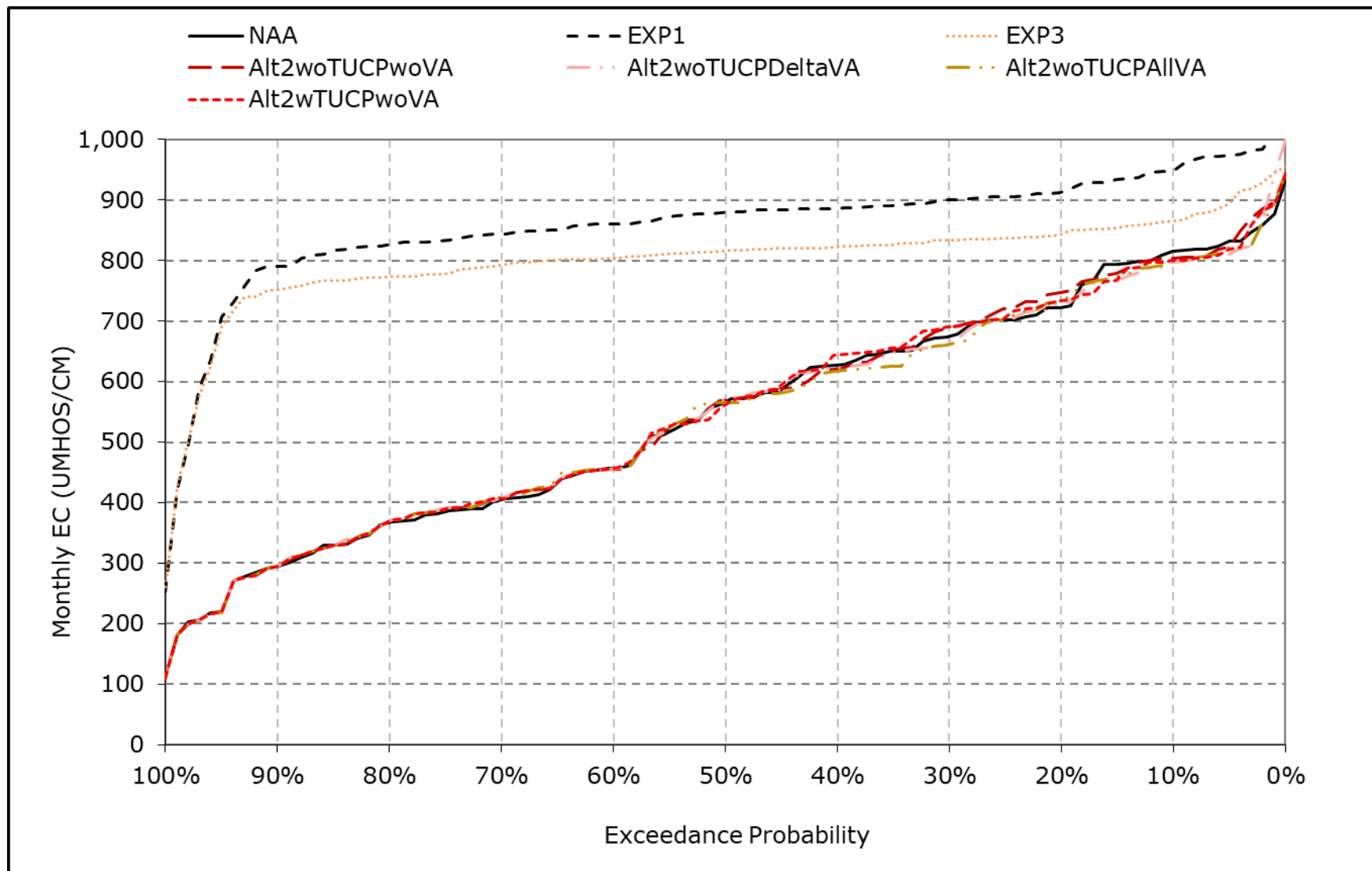


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

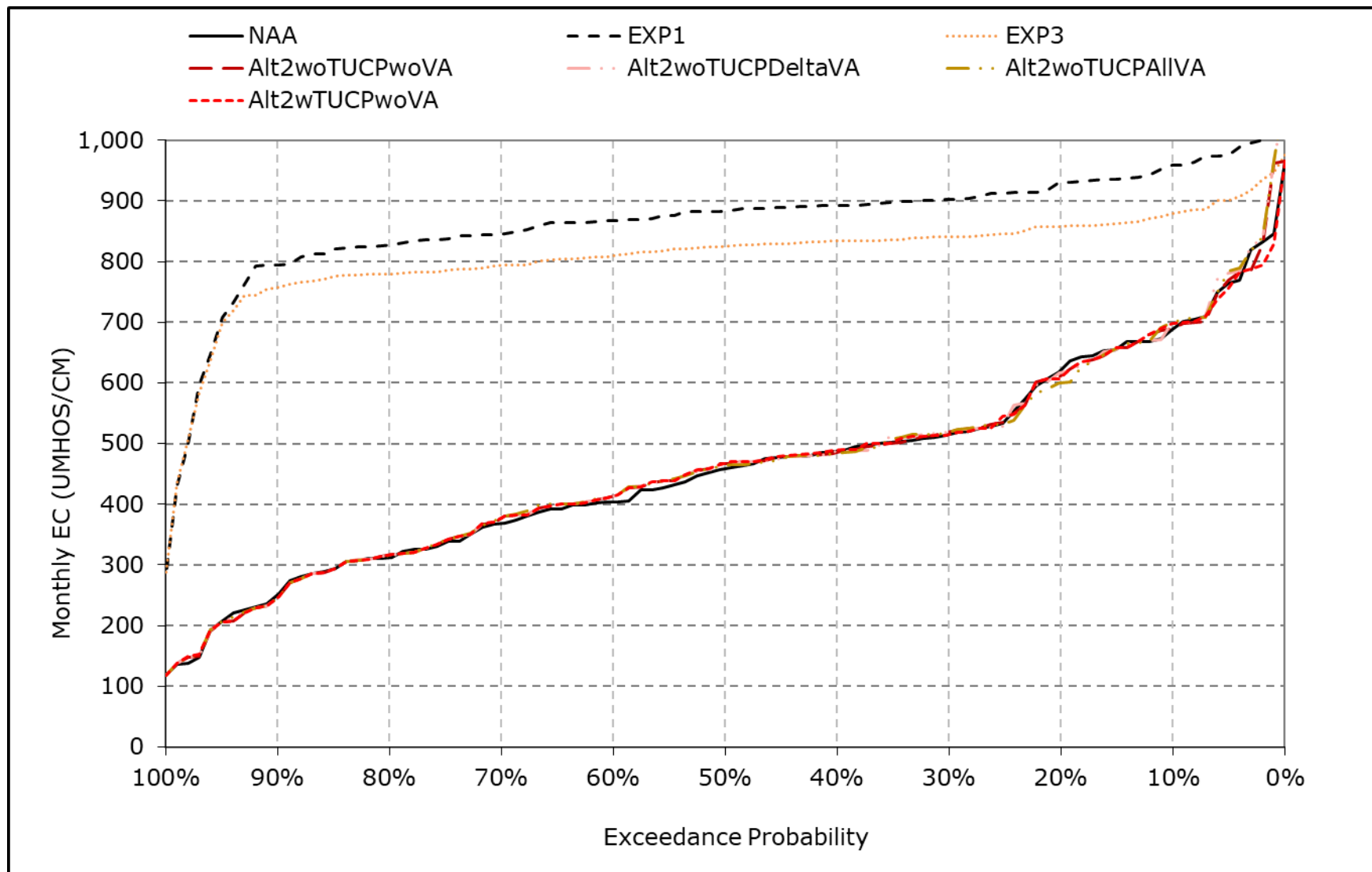
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-7. Banks Pumping Plant South Delta Exports Salinity, January EC**



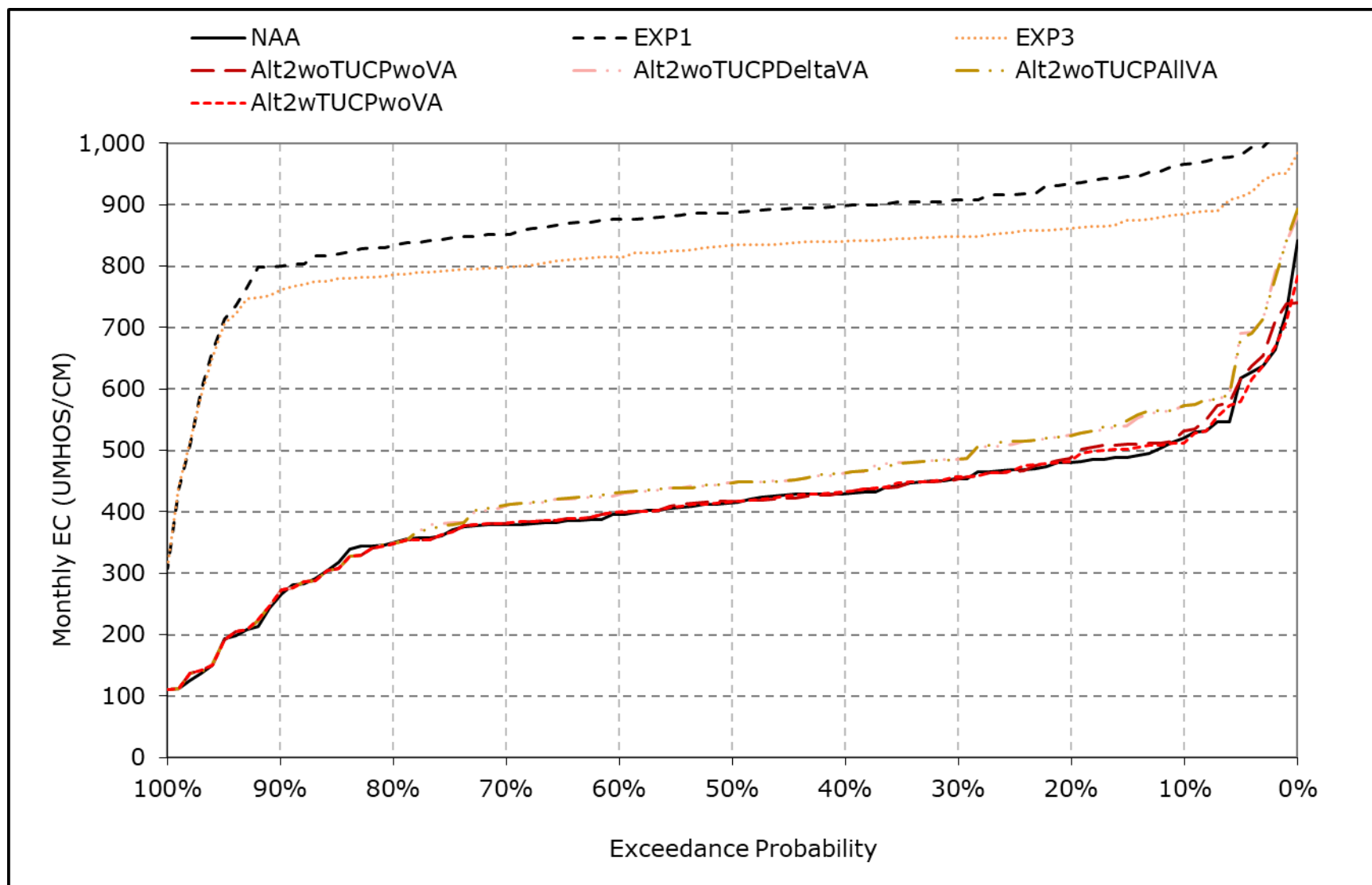
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-8. Banks Pumping Plant South Delta Exports Salinity, February EC**



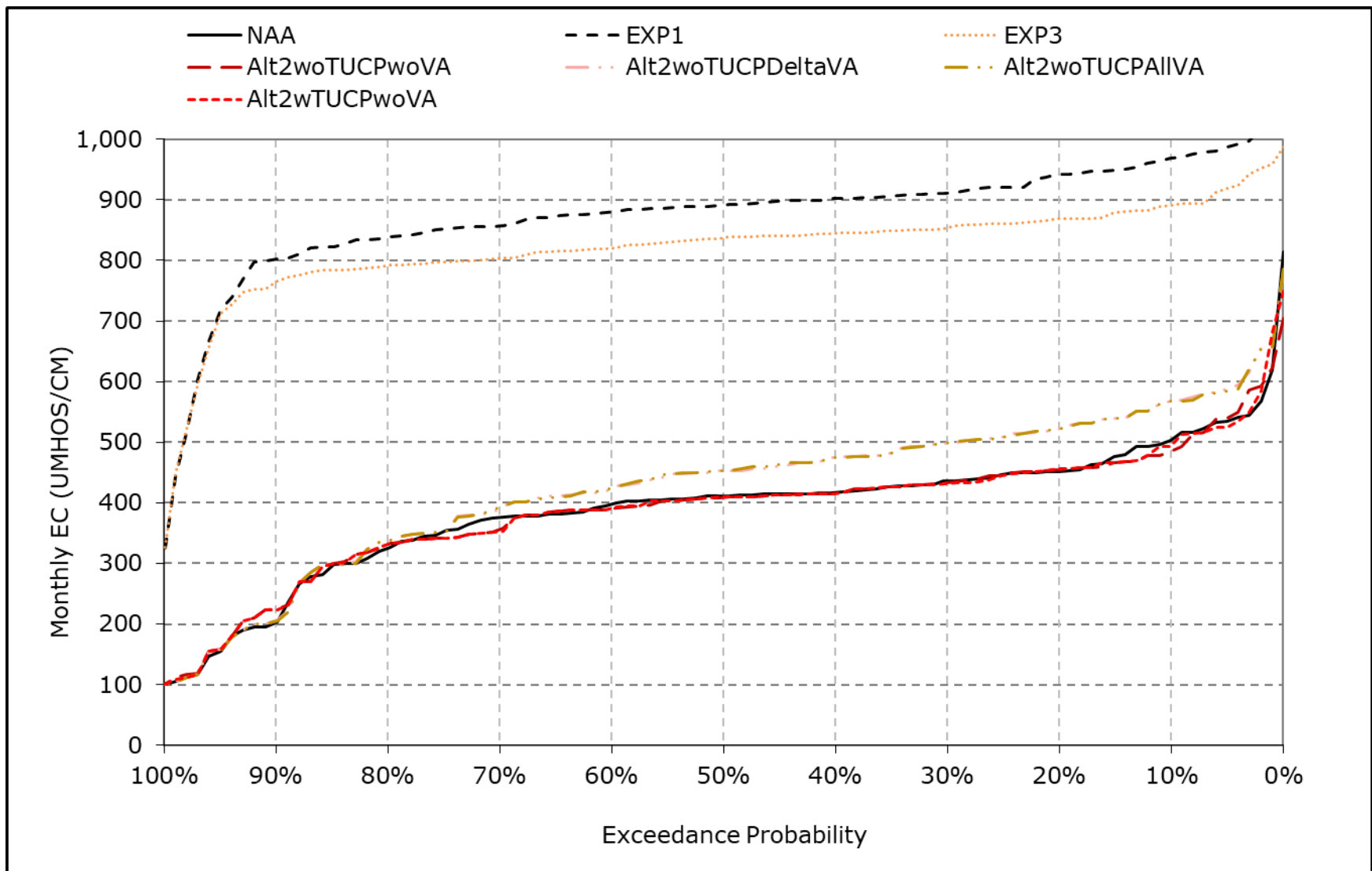
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-9. Banks Pumping Plant South Delta Exports Salinity, March EC**



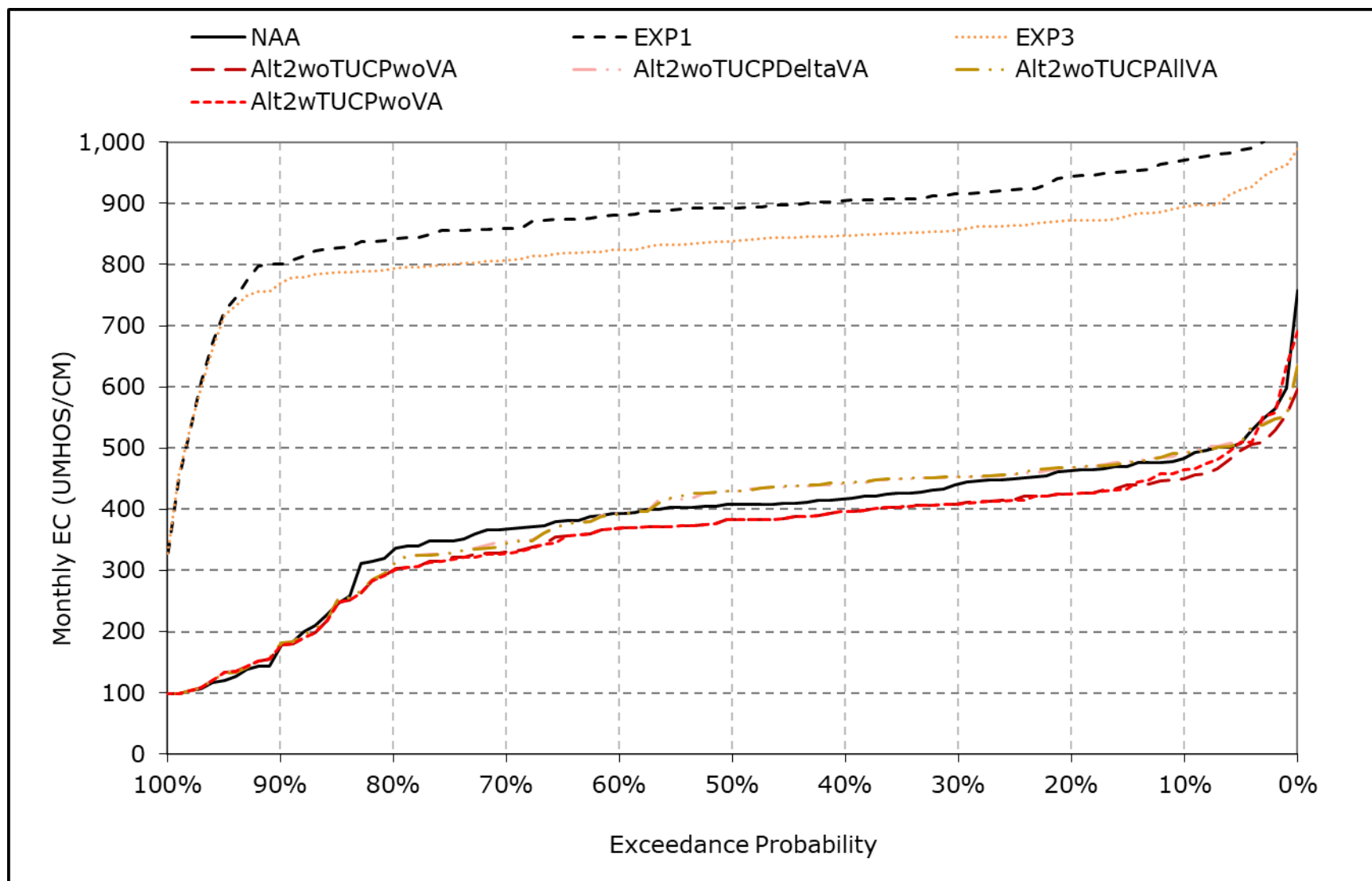
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-10. Banks Pumping Plant South Delta Exports Salinity, April EC**



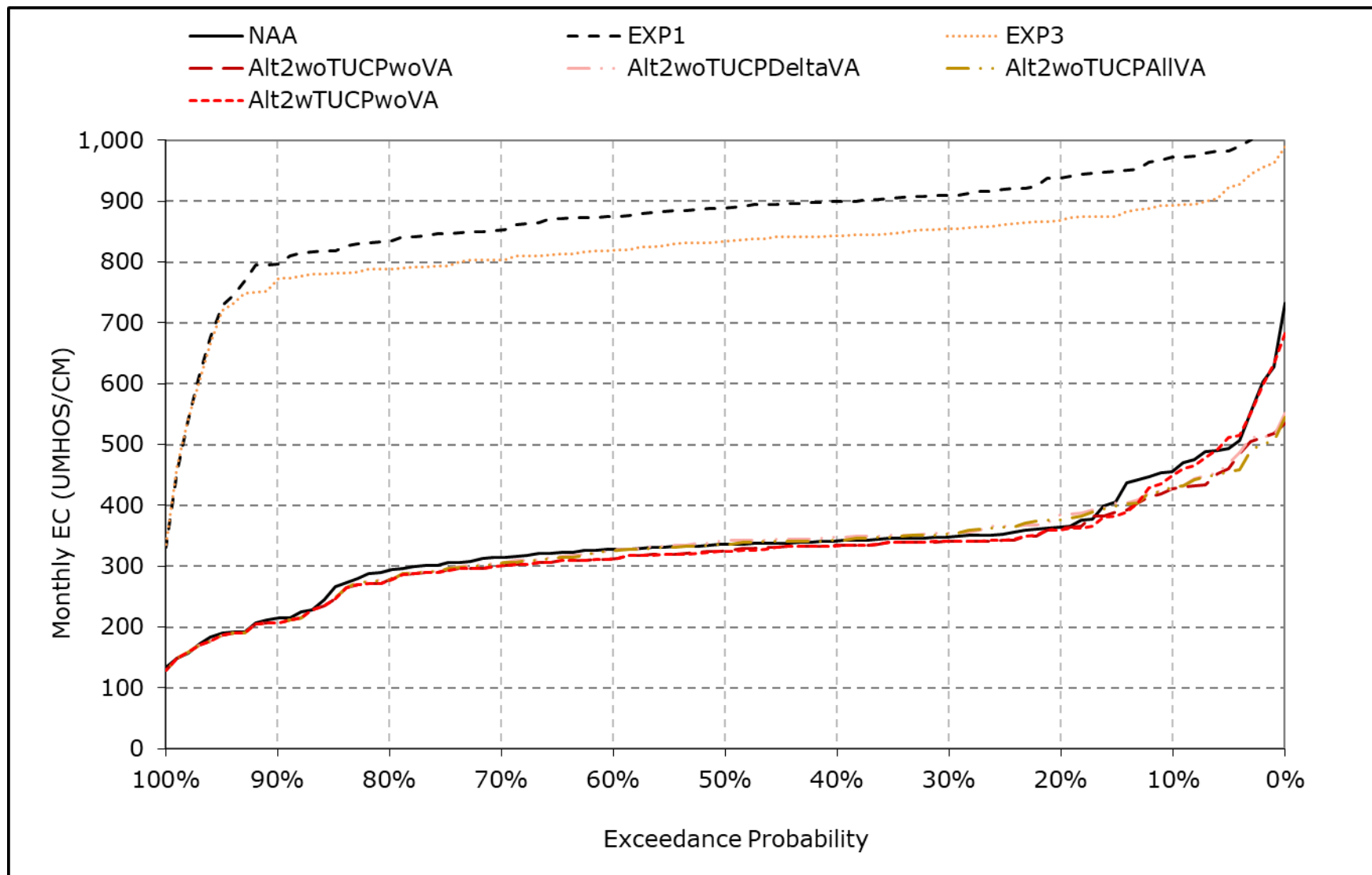
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-11. Banks Pumping Plant South Delta Exports Salinity, May EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

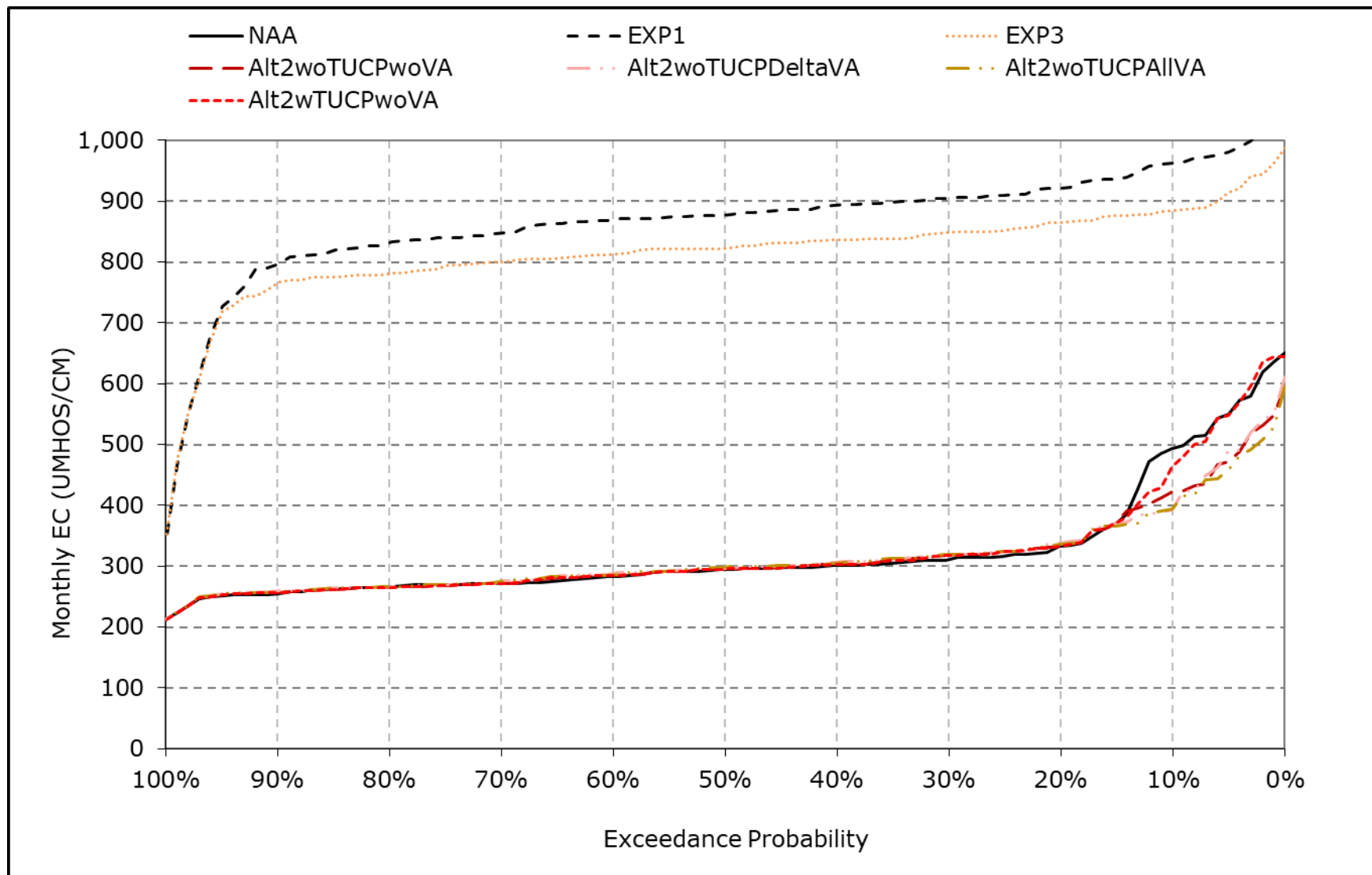
**Figure F.2.5-17-12. Banks Pumping Plant South Delta Exports Salinity, June EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

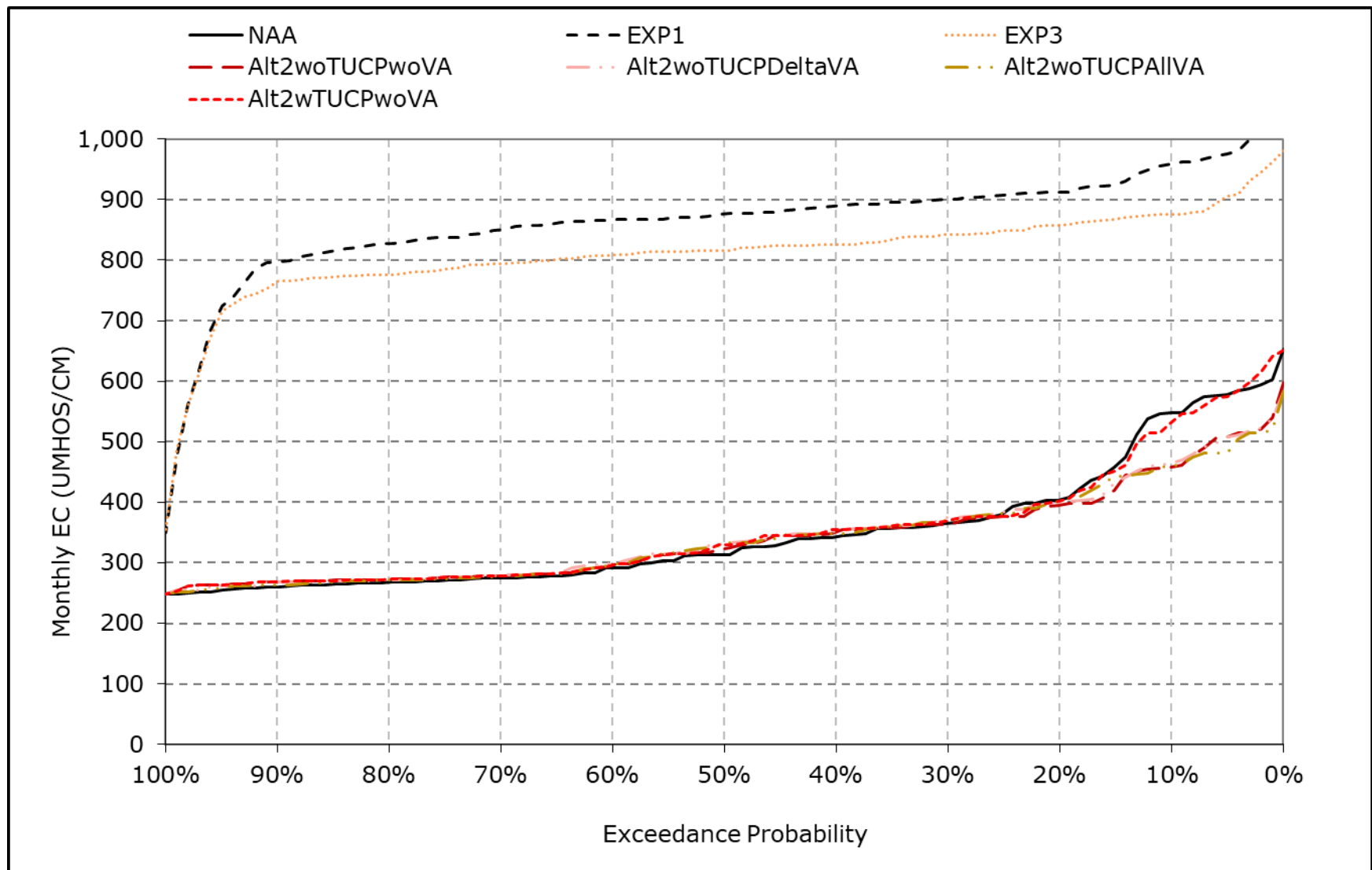


**Figure F.2.5-17-13. Banks Pumping Plant South Delta Exports Salinity, July EC**



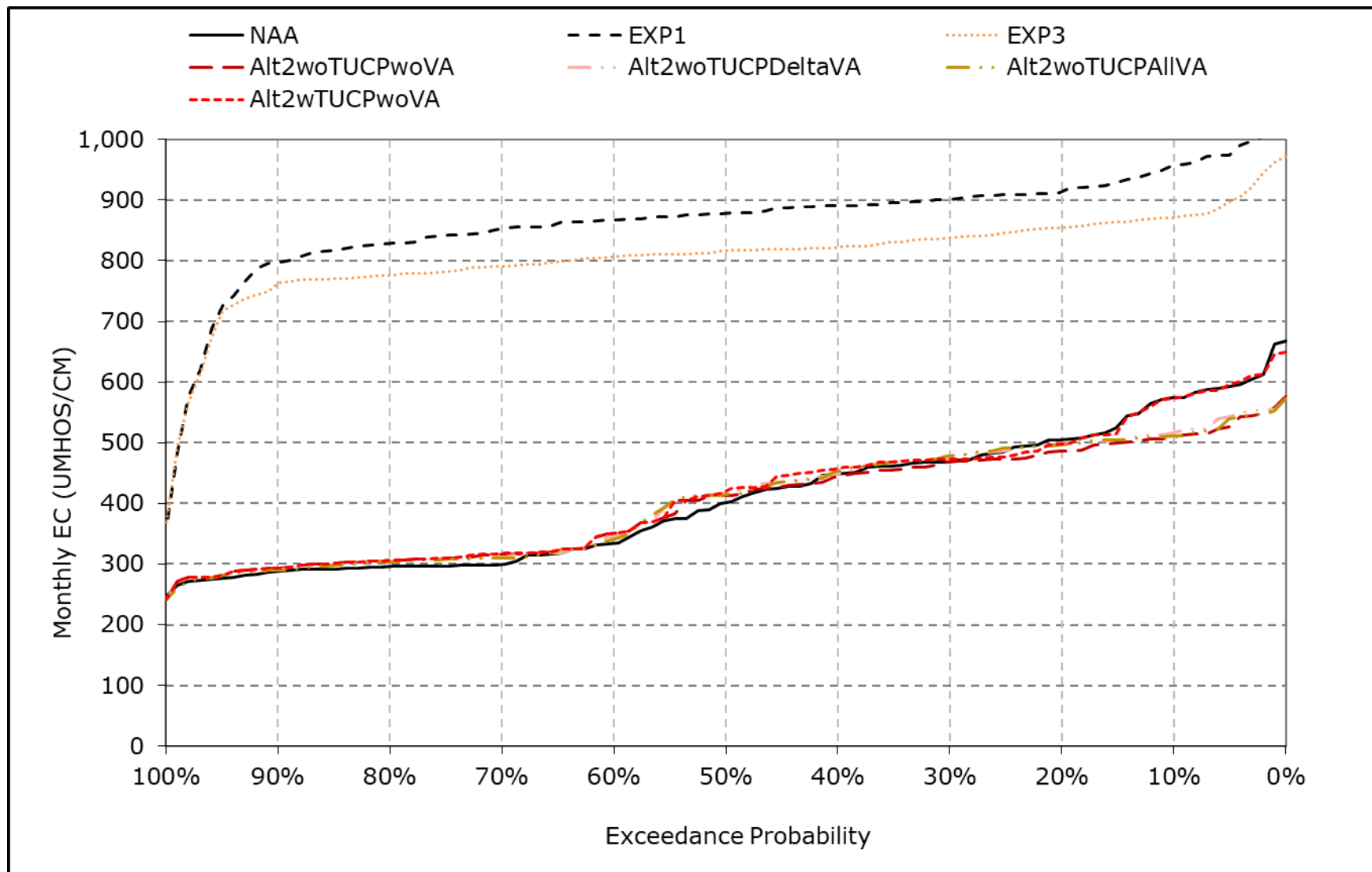
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-14. Banks Pumping Plant South Delta Exports Salinity, August EC**



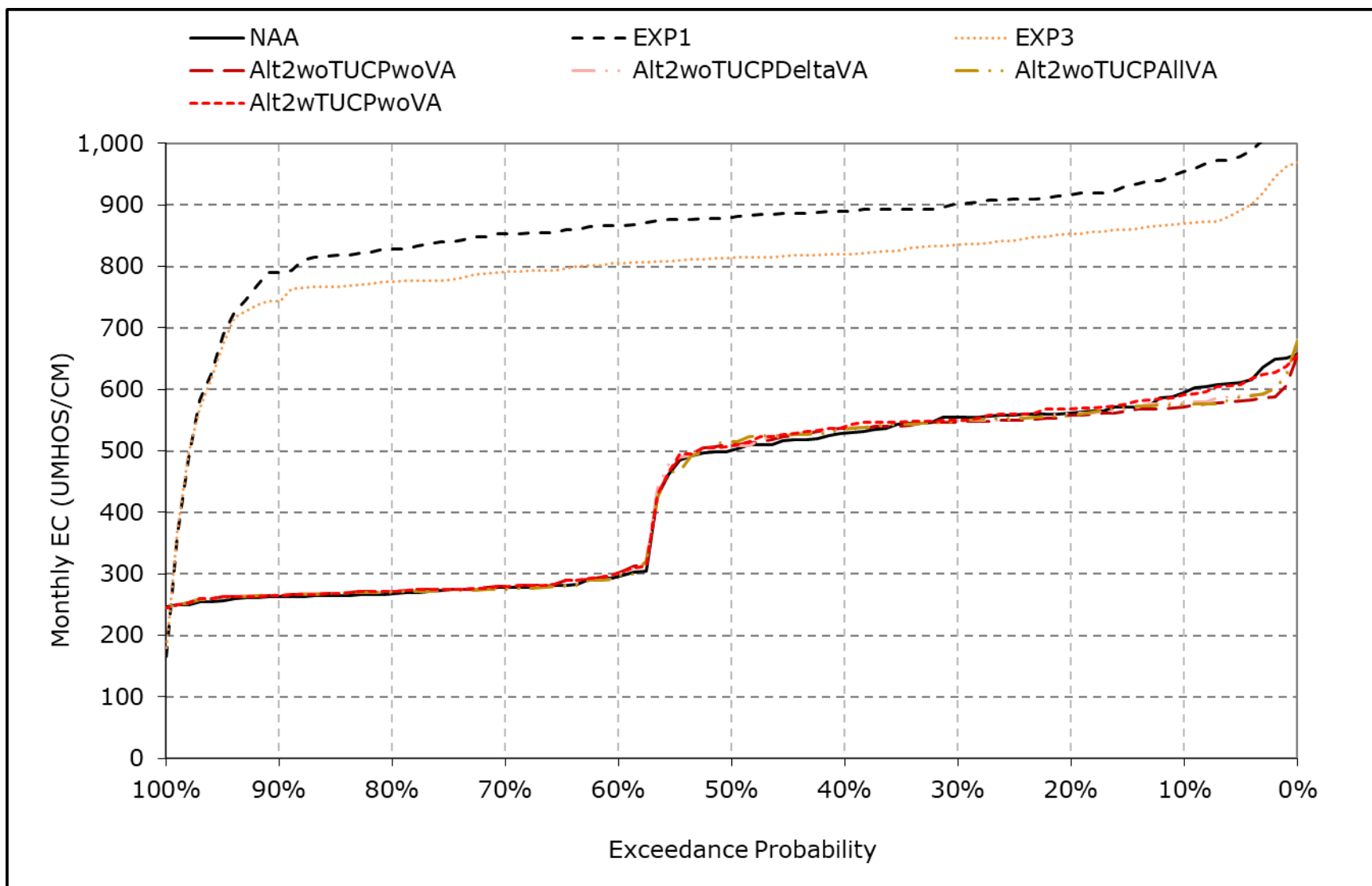
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-15. Banks Pumping Plant South Delta Exports Salinity, September EC**



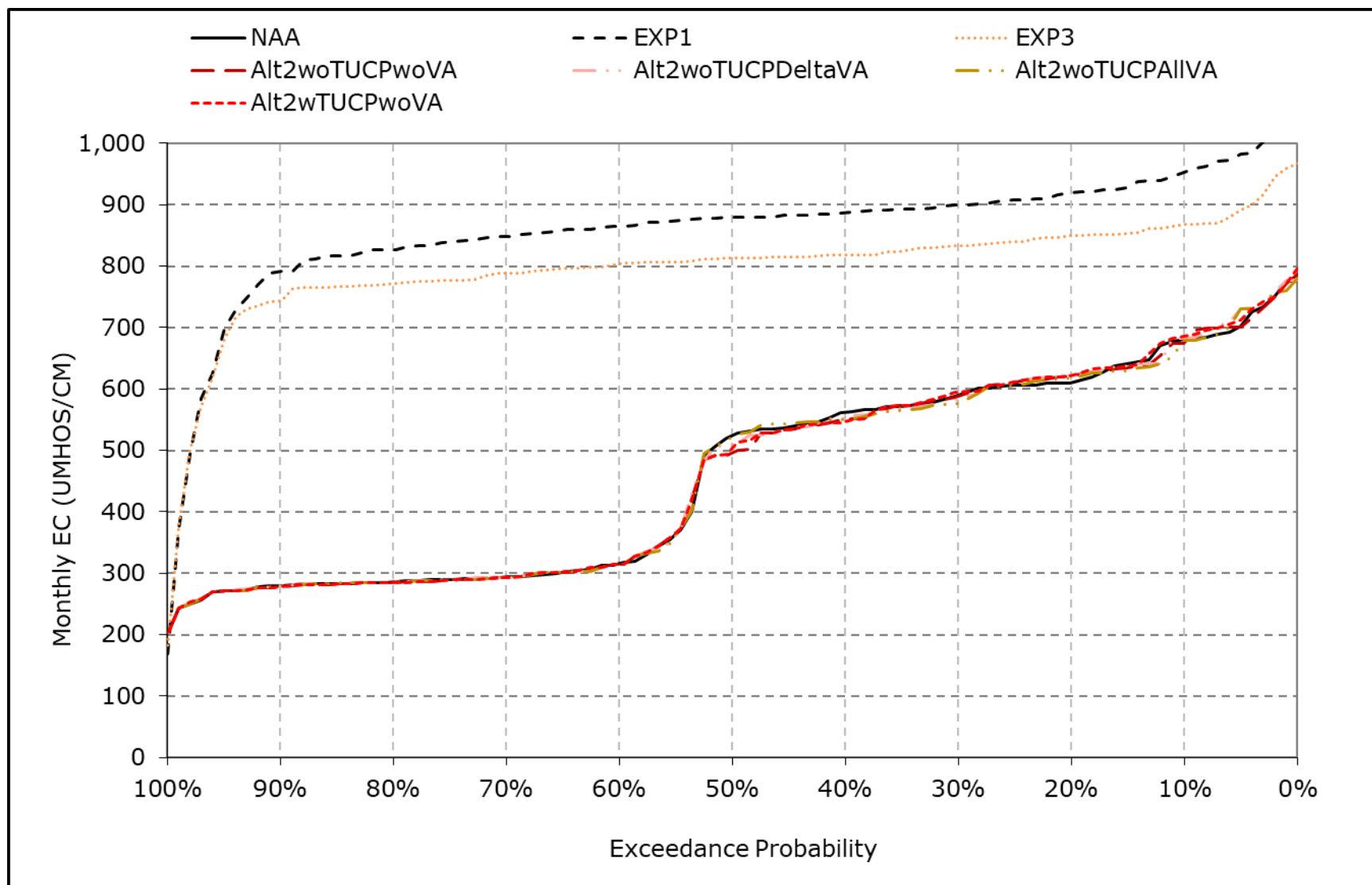
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-16. Banks Pumping Plant South Delta Exports Salinity, October EC**



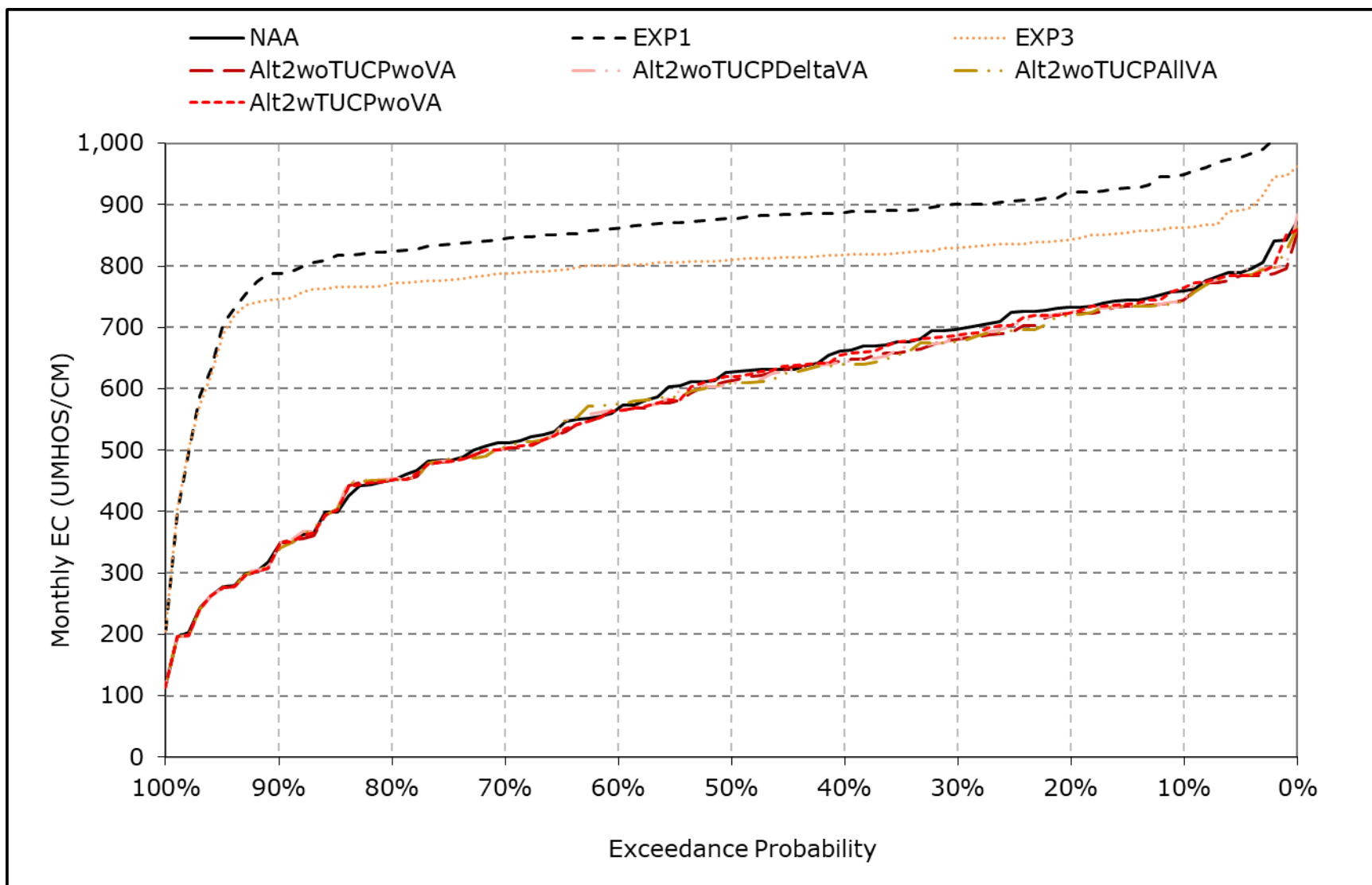
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-17. Banks Pumping Plant South Delta Exports Salinity, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-17-18. Banks Pumping Plant South Delta Exports Salinity, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-18-1a. Old River at Highway 4, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 684 | 798 | 864 | 867 | 648 | 435 | 465 | 439 | 467 | 555 | 589 | 649 |
| 20% Exceedance                              | 656 | 730 | 816 | 755 | 558 | 403 | 420 | 407 | 314 | 350 | 469 | 596 |
| 30% Exceedance                              | 645 | 664 | 777 | 640 | 458 | 385 | 406 | 387 | 304 | 320 | 421 | 562 |
| 40% Exceedance                              | 626 | 631 | 758 | 567 | 412 | 373 | 392 | 372 | 300 | 311 | 393 | 535 |
| 50% Exceedance                              | 577 | 596 | 688 | 520 | 391 | 357 | 378 | 357 | 296 | 298 | 349 | 491 |
| 60% Exceedance                              | 261 | 324 | 586 | 413 | 360 | 342 | 368 | 351 | 288 | 268 | 312 | 343 |
| 70% Exceedance                              | 254 | 308 | 521 | 342 | 331 | 330 | 354 | 337 | 281 | 259 | 280 | 311 |
| 80% Exceedance                              | 251 | 298 | 451 | 324 | 308 | 310 | 345 | 317 | 267 | 252 | 270 | 299 |
| 90% Exceedance                              | 246 | 278 | 317 | 277 | 270 | 274 | 288 | 255 | 219 | 245 | 263 | 285 |
| Full Simulation Period Average <sup>a</sup> | 473 | 514 | 637 | 525 | 426 | 363 | 376 | 357 | 316 | 328 | 384 | 458 |
| Wet Water Years (28%)                       | 249 | 296 | 532 | 351 | 328 | 298 | 292 | 267 | 245 | 250 | 272 | 295 |
| Above Normal Years (14%)                    | 254 | 295 | 605 | 493 | 377 | 353 | 400 | 365 | 287 | 257 | 276 | 308 |
| Below Normal Years (18%)                    | 606 | 609 | 639 | 544 | 403 | 364 | 386 | 362 | 293 | 299 | 378 | 551 |
| Dry Water Years (24%)                       | 638 | 646 | 651 | 631 | 485 | 375 | 388 | 373 | 299 | 329 | 429 | 534 |
| Critical Water Years (16%)                  | 688 | 811 | 842 | 676 | 580 | 465 | 471 | 480 | 520 | 560 | 612 | 657 |

**Table F.2.5-18-1b. Old River at Highway 4, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 704 | 820 | 846 | 845 | 640 | 472 | 427 | 400 | 398 | 427 | 510 | 597 |
| 20% Exceedance                              | 674 | 727 | 799 | 753 | 530 | 408 | 407 | 374 | 317 | 353 | 443 | 573 |
| 30% Exceedance                              | 647 | 665 | 775 | 652 | 448 | 385 | 387 | 354 | 309 | 325 | 413 | 555 |
| 40% Exceedance                              | 624 | 619 | 737 | 575 | 417 | 377 | 374 | 341 | 301 | 314 | 393 | 542 |
| 50% Exceedance                              | 593 | 552 | 672 | 502 | 396 | 364 | 363 | 334 | 291 | 296 | 364 | 501 |
| 60% Exceedance                              | 270 | 330 | 588 | 413 | 367 | 345 | 352 | 319 | 282 | 267 | 322 | 354 |
| 70% Exceedance                              | 259 | 308 | 502 | 344 | 337 | 329 | 336 | 299 | 272 | 259 | 291 | 325 |
| 80% Exceedance                              | 252 | 296 | 445 | 323 | 306 | 308 | 314 | 280 | 264 | 254 | 276 | 308 |
| 90% Exceedance                              | 246 | 272 | 317 | 279 | 267 | 266 | 271 | 207 | 212 | 248 | 270 | 289 |
| Full Simulation Period Average <sup>a</sup> | 480 | 516 | 625 | 526 | 427 | 365 | 358 | 322 | 301 | 314 | 370 | 453 |
| Wet Water Years (28%)                       | 251 | 297 | 527 | 343 | 326 | 287 | 280 | 235 | 239 | 251 | 278 | 302 |
| Above Normal Years (14%)                    | 257 | 292 | 596 | 488 | 384 | 352 | 356 | 317 | 281 | 253 | 288 | 322 |
| Below Normal Years (18%)                    | 612 | 600 | 629 | 553 | 409 | 366 | 368 | 331 | 290 | 300 | 384 | 543 |
| Dry Water Years (24%)                       | 647 | 654 | 655 | 630 | 480 | 378 | 375 | 352 | 301 | 333 | 437 | 550 |
| Critical Water Years (16%)                  | 707 | 830 | 785 | 692 | 583 | 493 | 456 | 420 | 440 | 464 | 485 | 586 |

**Table F.2.5-18-1c. Old River at Highway 4, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|
| 10% Exceedance                              | 21  | 23  | -18 | -22 | -8  | 38  | -38 | -40 | -68 | -128 | -79  | -52 |
| 20% Exceedance                              | 18  | -2  | -18 | -2  | -28 | 6   | -14 | -33 | 3   | 3    | -26  | -23 |
| 30% Exceedance                              | 2   | 1   | -2  | 13  | -11 | -1  | -19 | -33 | 4   | 4    | -8   | -7  |
| 40% Exceedance                              | -3  | -12 | -21 | 7   | 5   | 4   | -18 | -30 | 1   | 3    | 0    | 6   |
| 50% Exceedance                              | 16  | -44 | -16 | -18 | 5   | 7   | -15 | -23 | -5  | -3   | 15   | 10  |
| 60% Exceedance                              | 8   | 6   | 1   | 0   | 7   | 3   | -15 | -32 | -6  | -2   | 10   | 11  |
| 70% Exceedance                              | 6   | 0   | -19 | 1   | 6   | -1  | -18 | -38 | -9  | 1    | 11   | 14  |
| 80% Exceedance                              | 1   | -2  | -6  | -1  | -2  | -3  | -31 | -37 | -3  | 1    | 6    | 9   |
| 90% Exceedance                              | 0   | -6  | 0   | 1   | -3  | -8  | -16 | -49 | -7  | 3    | 7    | 3   |
| Full Simulation Period Average <sup>a</sup> | 7   | 3   | -12 | 1   | 1   | 2   | -18 | -36 | -15 | -15  | -14  | -5  |
| Wet Water Years (28%)                       | 2   | 0   | -5  | -8  | -2  | -11 | -12 | -32 | -6  | 1    | 6    | 7   |
| Above Normal Years (14%)                    | 4   | -4  | -9  | -5  | 8   | -1  | -45 | -48 | -5  | -3   | 13   | 14  |
| Below Normal Years (18%)                    | 7   | -8  | -10 | 10  | 6   | 2   | -18 | -30 | -3  | 1    | 6    | -7  |
| Dry Water Years (24%)                       | 9   | 7   | 3   | -1  | -5  | 3   | -13 | -21 | 2   | 3    | 8    | 16  |
| Critical Water Years (16%)                  | 19  | 20  | -56 | 16  | 3   | 28  | -16 | -60 | -81 | -96  | -127 | -71 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-18-2a. Old River at Highway 4, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 684 | 798 | 864 | 867 | 648 | 435 | 465 | 439 | 467 | 555 | 589 | 649 |
| 20% Exceedance                              | 656 | 730 | 816 | 755 | 558 | 403 | 420 | 407 | 314 | 350 | 469 | 596 |
| 30% Exceedance                              | 645 | 664 | 777 | 640 | 458 | 385 | 406 | 387 | 304 | 320 | 421 | 562 |
| 40% Exceedance                              | 626 | 631 | 758 | 567 | 412 | 373 | 392 | 372 | 300 | 311 | 393 | 535 |
| 50% Exceedance                              | 577 | 596 | 688 | 520 | 391 | 357 | 378 | 357 | 296 | 298 | 349 | 491 |
| 60% Exceedance                              | 261 | 324 | 586 | 413 | 360 | 342 | 368 | 351 | 288 | 268 | 312 | 343 |
| 70% Exceedance                              | 254 | 308 | 521 | 342 | 331 | 330 | 354 | 337 | 281 | 259 | 280 | 311 |
| 80% Exceedance                              | 251 | 298 | 451 | 324 | 308 | 310 | 345 | 317 | 267 | 252 | 270 | 299 |
| 90% Exceedance                              | 246 | 278 | 317 | 277 | 270 | 274 | 288 | 255 | 219 | 245 | 263 | 285 |
| Full Simulation Period Average <sup>a</sup> | 473 | 514 | 637 | 525 | 426 | 363 | 376 | 357 | 316 | 328 | 384 | 458 |
| Wet Water Years (28%)                       | 249 | 296 | 532 | 351 | 328 | 298 | 292 | 267 | 245 | 250 | 272 | 295 |
| Above Normal Years (14%)                    | 254 | 295 | 605 | 493 | 377 | 353 | 400 | 365 | 287 | 257 | 276 | 308 |
| Below Normal Years (18%)                    | 606 | 609 | 639 | 544 | 403 | 364 | 386 | 362 | 293 | 299 | 378 | 551 |
| Dry Water Years (24%)                       | 638 | 646 | 651 | 631 | 485 | 375 | 388 | 373 | 299 | 329 | 429 | 534 |
| Critical Water Years (16%)                  | 688 | 811 | 842 | 676 | 580 | 465 | 471 | 480 | 520 | 560 | 612 | 657 |

**Table F.2.5-18-2b. Old River at Highway 4, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 713 | 825 | 848 | 848 | 646 | 494 | 504 | 419 | 399 | 425 | 504 | 610 |
| 20% Exceedance                              | 669 | 722 | 806 | 726 | 534 | 466 | 471 | 398 | 326 | 349 | 461 | 586 |
| 30% Exceedance                              | 649 | 660 | 772 | 634 | 462 | 447 | 445 | 389 | 315 | 322 | 417 | 569 |
| 40% Exceedance                              | 625 | 622 | 737 | 571 | 416 | 409 | 430 | 380 | 309 | 313 | 398 | 546 |
| 50% Exceedance                              | 600 | 576 | 662 | 503 | 395 | 399 | 420 | 373 | 295 | 301 | 363 | 513 |
| 60% Exceedance                              | 269 | 330 | 580 | 414 | 367 | 388 | 400 | 343 | 288 | 269 | 323 | 348 |
| 70% Exceedance                              | 258 | 309 | 514 | 343 | 338 | 367 | 372 | 321 | 277 | 260 | 287 | 323 |
| 80% Exceedance                              | 250 | 296 | 442 | 323 | 306 | 310 | 343 | 289 | 264 | 255 | 275 | 307 |
| 90% Exceedance                              | 246 | 273 | 318 | 281 | 267 | 266 | 284 | 219 | 212 | 248 | 266 | 288 |
| Full Simulation Period Average <sup>a</sup> | 484 | 519 | 627 | 524 | 432 | 399 | 402 | 343 | 305 | 315 | 372 | 459 |
| Wet Water Years (28%)                       | 250 | 298 | 528 | 344 | 327 | 295 | 292 | 242 | 240 | 250 | 277 | 301 |
| Above Normal Years (14%)                    | 257 | 294 | 601 | 489 | 384 | 405 | 439 | 357 | 287 | 260 | 288 | 318 |
| Below Normal Years (18%)                    | 614 | 602 | 635 | 558 | 413 | 433 | 441 | 359 | 295 | 301 | 388 | 553 |
| Dry Water Years (24%)                       | 649 | 654 | 651 | 618 | 482 | 413 | 436 | 386 | 309 | 334 | 446 | 563 |
| Critical Water Years (16%)                  | 724 | 837 | 792 | 690 | 602 | 518 | 467 | 425 | 441 | 461 | 486 | 593 |

**Table F.2.5-18-2c. Old River at Highway 4, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|
| 10% Exceedance                              | 29  | 27  | -16 | -19 | -2  | 59  | 38  | -20 | -67 | -129 | -85  | -39 |
| 20% Exceedance                              | 13  | -8  | -11 | -29 | -24 | 64  | 50  | -9  | 12  | -1   | -9   | -9  |
| 30% Exceedance                              | 3   | -4  | -5  | -5  | 3   | 62  | 39  | 2   | 10  | 2    | -4   | 7   |
| 40% Exceedance                              | -1  | -9  | -21 | 3   | 4   | 36  | 38  | 9   | 9   | 2    | 5    | 11  |
| 50% Exceedance                              | 23  | -20 | -26 | -17 | 4   | 42  | 42  | 16  | -1  | 3    | 14   | 23  |
| 60% Exceedance                              | 7   | 6   | -6  | 1   | 7   | 45  | 32  | -8  | 0   | 0    | 11   | 5   |
| 70% Exceedance                              | 5   | 1   | -8  | 1   | 7   | 36  | 18  | -16 | -3  | 2    | 7    | 12  |
| 80% Exceedance                              | -1  | -1  | -9  | -1  | -2  | -1  | -2  | -28 | -3  | 2    | 5    | 8   |
| 90% Exceedance                              | 0   | -5  | 1   | 4   | -3  | -8  | -4  | -36 | -7  | 3    | 3    | 2   |
| Full Simulation Period Average <sup>a</sup> | 11  | 5   | -10 | -1  | 5   | 37  | 26  | -15 | -11 | -14  | -11  | 0   |
| Wet Water Years (28%)                       | 2   | 2   | -5  | -6  | -1  | -2  | 1   | -25 | -5  | 1    | 4    | 6   |
| Above Normal Years (14%)                    | 3   | -1  | -3  | -5  | 7   | 52  | 38  | -8  | 1   | 3    | 13   | 10  |
| Below Normal Years (18%)                    | 9   | -6  | -4  | 14  | 9   | 69  | 55  | -3  | 2   | 1    | 10   | 3   |
| Dry Water Years (24%)                       | 11  | 8   | -1  | -13 | -3  | 38  | 48  | 13  | 10  | 5    | 17   | 29  |
| Critical Water Years (16%)                  | 37  | 26  | -49 | 14  | 22  | 52  | -5  | -55 | -79 | -99  | -126 | -64 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-18-3a. Old River at Highway 4, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 684 | 798 | 864 | 867 | 648 | 435 | 465 | 439 | 467 | 555 | 589 | 649 |
| 20% Exceedance                              | 656 | 730 | 816 | 755 | 558 | 403 | 420 | 407 | 314 | 350 | 469 | 596 |
| 30% Exceedance                              | 645 | 664 | 777 | 640 | 458 | 385 | 406 | 387 | 304 | 320 | 421 | 562 |
| 40% Exceedance                              | 626 | 631 | 758 | 567 | 412 | 373 | 392 | 372 | 300 | 311 | 393 | 535 |
| 50% Exceedance                              | 577 | 596 | 688 | 520 | 391 | 357 | 378 | 357 | 296 | 298 | 349 | 491 |
| 60% Exceedance                              | 261 | 324 | 586 | 413 | 360 | 342 | 368 | 351 | 288 | 268 | 312 | 343 |
| 70% Exceedance                              | 254 | 308 | 521 | 342 | 331 | 330 | 354 | 337 | 281 | 259 | 280 | 311 |
| 80% Exceedance                              | 251 | 298 | 451 | 324 | 308 | 310 | 345 | 317 | 267 | 252 | 270 | 299 |
| 90% Exceedance                              | 246 | 278 | 317 | 277 | 270 | 274 | 288 | 255 | 219 | 245 | 263 | 285 |
| Full Simulation Period Average <sup>a</sup> | 473 | 514 | 637 | 525 | 426 | 363 | 376 | 357 | 316 | 328 | 384 | 458 |
| Wet Water Years (28%)                       | 249 | 296 | 532 | 351 | 328 | 298 | 292 | 267 | 245 | 250 | 272 | 295 |
| Above Normal Years (14%)                    | 254 | 295 | 605 | 493 | 377 | 353 | 400 | 365 | 287 | 257 | 276 | 308 |
| Below Normal Years (18%)                    | 606 | 609 | 639 | 544 | 403 | 364 | 386 | 362 | 293 | 299 | 378 | 551 |
| Dry Water Years (24%)                       | 638 | 646 | 651 | 631 | 485 | 375 | 388 | 373 | 299 | 329 | 429 | 534 |
| Critical Water Years (16%)                  | 688 | 811 | 842 | 676 | 580 | 465 | 471 | 480 | 520 | 560 | 612 | 657 |

**Table F.2.5-18-3b. Old River at Highway 4, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 710 | 817 | 850 | 850 | 654 | 497 | 502 | 420 | 390 | 421 | 505 | 600 |
| 20% Exceedance                              | 668 | 721 | 807 | 720 | 538 | 467 | 468 | 399 | 321 | 352 | 465 | 587 |
| 30% Exceedance                              | 642 | 652 | 781 | 625 | 450 | 450 | 445 | 388 | 310 | 324 | 416 | 571 |
| 40% Exceedance                              | 628 | 619 | 729 | 569 | 415 | 408 | 430 | 378 | 301 | 314 | 396 | 546 |
| 50% Exceedance                              | 598 | 595 | 662 | 508 | 394 | 398 | 419 | 371 | 293 | 296 | 362 | 514 |
| 60% Exceedance                              | 266 | 327 | 581 | 414 | 369 | 388 | 403 | 343 | 287 | 268 | 319 | 349 |
| 70% Exceedance                              | 257 | 308 | 521 | 344 | 339 | 365 | 372 | 320 | 276 | 260 | 281 | 320 |
| 80% Exceedance                              | 251 | 297 | 443 | 323 | 306 | 310 | 344 | 289 | 262 | 254 | 274 | 307 |
| 90% Exceedance                              | 245 | 270 | 318 | 280 | 267 | 266 | 284 | 219 | 212 | 247 | 266 | 287 |
| Full Simulation Period Average <sup>a</sup> | 483 | 518 | 629 | 521 | 431 | 400 | 402 | 341 | 300 | 312 | 370 | 457 |
| Wet Water Years (28%)                       | 250 | 298 | 528 | 348 | 328 | 297 | 292 | 241 | 239 | 251 | 276 | 301 |
| Above Normal Years (14%)                    | 255 | 294 | 603 | 488 | 380 | 404 | 438 | 356 | 286 | 254 | 280 | 313 |
| Below Normal Years (18%)                    | 614 | 604 | 633 | 547 | 412 | 434 | 441 | 356 | 290 | 302 | 383 | 553 |
| Dry Water Years (24%)                       | 645 | 645 | 648 | 609 | 472 | 412 | 435 | 386 | 305 | 335 | 450 | 564 |
| Critical Water Years (16%)                  | 732 | 847 | 806 | 694 | 614 | 523 | 467 | 419 | 422 | 446 | 479 | 590 |

**Table F.2.5-18-3c. Old River at Highway 4, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|
| 10% Exceedance                              | 26  | 19  | -14 | -17 | 7   | 62  | 37  | -19 | -76 | -133 | -84  | -50 |
| 20% Exceedance                              | 12  | -9  | -9  | -35 | -19 | 65  | 48  | -8  | 7   | 2    | -4   | -8  |
| 30% Exceedance                              | -3  | -12 | 4   | -14 | -8  | 64  | 39  | 1   | 5   | 4    | -5   | 8   |
| 40% Exceedance                              | 2   | -11 | -29 | 2   | 3   | 35  | 38  | 6   | 1   | 3    | 3    | 10  |
| 50% Exceedance                              | 22  | -1  | -26 | -12 | 3   | 41  | 41  | 14  | -3  | -2   | 13   | 23  |
| 60% Exceedance                              | 5   | 3   | -6  | 2   | 9   | 45  | 35  | -8  | -1  | -1   | 7    | 6   |
| 70% Exceedance                              | 4   | 1   | 0   | 2   | 7   | 34  | 18  | -18 | -5  | 1    | 2    | 9   |
| 80% Exceedance                              | 0   | -1  | -8  | -1  | -2  | -1  | -2  | -28 | -4  | 1    | 4    | 8   |
| 90% Exceedance                              | -1  | -8  | 1   | 2   | -3  | -8  | -3  | -36 | -7  | 3    | 3    | 2   |
| Full Simulation Period Average <sup>a</sup> | 10  | 5   | -9  | -3  | 4   | 37  | 26  | -16 | -17 | -16  | -14  | -1  |
| Wet Water Years (28%)                       | 1   | 2   | -4  | -3  | 0   | -1  | 0   | -26 | -5  | 1    | 3    | 6   |
| Above Normal Years (14%)                    | 1   | -1  | -2  | -5  | 3   | 50  | 38  | -9  | -1  | -2   | 4    | 5   |
| Below Normal Years (18%)                    | 8   | -5  | -6  | 3   | 9   | 70  | 55  | -6  | -3  | 3    | 5    | 2   |
| Dry Water Years (24%)                       | 7   | -1  | -4  | -21 | -13 | 36  | 47  | 13  | 6   | 6    | 20   | 30  |
| Critical Water Years (16%)                  | 44  | 36  | -36 | 18  | 34  | 58  | -4  | -61 | -98 | -114 | -133 | -68 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-18-4a. Old River at Highway 4, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 684 | 798 | 864 | 867 | 648 | 435 | 465 | 439 | 467 | 555 | 589 | 649 |
| 20% Exceedance                              | 656 | 730 | 816 | 755 | 558 | 403 | 420 | 407 | 314 | 350 | 469 | 596 |
| 30% Exceedance                              | 645 | 664 | 777 | 640 | 458 | 385 | 406 | 387 | 304 | 320 | 421 | 562 |
| 40% Exceedance                              | 626 | 631 | 758 | 567 | 412 | 373 | 392 | 372 | 300 | 311 | 393 | 535 |
| 50% Exceedance                              | 577 | 596 | 688 | 520 | 391 | 357 | 378 | 357 | 296 | 298 | 349 | 491 |
| 60% Exceedance                              | 261 | 324 | 586 | 413 | 360 | 342 | 368 | 351 | 288 | 268 | 312 | 343 |
| 70% Exceedance                              | 254 | 308 | 521 | 342 | 331 | 330 | 354 | 337 | 281 | 259 | 280 | 311 |
| 80% Exceedance                              | 251 | 298 | 451 | 324 | 308 | 310 | 345 | 317 | 267 | 252 | 270 | 299 |
| 90% Exceedance                              | 246 | 278 | 317 | 277 | 270 | 274 | 288 | 255 | 219 | 245 | 263 | 285 |
| Full Simulation Period Average <sup>a</sup> | 473 | 514 | 637 | 525 | 426 | 363 | 376 | 357 | 316 | 328 | 384 | 458 |
| Wet Water Years (28%)                       | 249 | 296 | 532 | 351 | 328 | 298 | 292 | 267 | 245 | 250 | 272 | 295 |
| Above Normal Years (14%)                    | 254 | 295 | 605 | 493 | 377 | 353 | 400 | 365 | 287 | 257 | 276 | 308 |
| Below Normal Years (18%)                    | 606 | 609 | 639 | 544 | 403 | 364 | 386 | 362 | 293 | 299 | 378 | 551 |
| Dry Water Years (24%)                       | 638 | 646 | 651 | 631 | 485 | 375 | 388 | 373 | 299 | 329 | 429 | 534 |
| Critical Water Years (16%)                  | 688 | 811 | 842 | 676 | 580 | 465 | 471 | 480 | 520 | 560 | 612 | 657 |

**Table F.2.5-18-4b. Old River at Highway 4, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 689 | 816 | 856 | 849 | 637 | 458 | 437 | 431 | 440 | 567 | 607 | 656 |
| 20% Exceedance                              | 662 | 735 | 818 | 738 | 531 | 398 | 405 | 372 | 317 | 353 | 462 | 590 |
| 30% Exceedance                              | 641 | 665 | 783 | 654 | 459 | 383 | 388 | 354 | 309 | 323 | 419 | 568 |
| 40% Exceedance                              | 624 | 616 | 751 | 578 | 416 | 375 | 374 | 341 | 301 | 312 | 404 | 547 |
| 50% Exceedance                              | 585 | 553 | 670 | 490 | 392 | 362 | 363 | 334 | 291 | 296 | 364 | 509 |
| 60% Exceedance                              | 270 | 330 | 592 | 414 | 361 | 345 | 352 | 319 | 282 | 267 | 322 | 354 |
| 70% Exceedance                              | 259 | 307 | 507 | 344 | 337 | 330 | 336 | 298 | 272 | 259 | 291 | 325 |
| 80% Exceedance                              | 252 | 296 | 445 | 323 | 309 | 308 | 313 | 280 | 264 | 254 | 276 | 311 |
| 90% Exceedance                              | 246 | 272 | 317 | 279 | 273 | 270 | 271 | 207 | 212 | 248 | 270 | 289 |
| Full Simulation Period Average <sup>a</sup> | 477 | 515 | 631 | 524 | 424 | 361 | 359 | 328 | 312 | 327 | 389 | 465 |
| Wet Water Years (28%)                       | 251 | 297 | 527 | 343 | 327 | 287 | 279 | 235 | 239 | 251 | 278 | 302 |
| Above Normal Years (14%)                    | 257 | 292 | 596 | 489 | 388 | 352 | 355 | 317 | 281 | 253 | 289 | 323 |
| Below Normal Years (18%)                    | 611 | 597 | 632 | 539 | 406 | 365 | 368 | 329 | 290 | 299 | 388 | 553 |
| Dry Water Years (24%)                       | 647 | 653 | 658 | 639 | 483 | 378 | 375 | 352 | 301 | 332 | 438 | 550 |
| Critical Water Years (16%)                  | 689 | 829 | 816 | 684 | 557 | 466 | 466 | 466 | 510 | 551 | 598 | 648 |

**Table F.2.5-18-4c. Old River at Highway 4, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 6   | 18  | -8  | -18 | -11 | 23  | -28 | -9  | -27 | 13  | 18  | 7   |
| 20% Exceedance                              | 6   | 5   | 1   | -17 | -26 | -5  | -15 | -35 | 3   | 3   | -7  | -6  |
| 30% Exceedance                              | -4  | 1   | 6   | 14  | 1   | -2  | -18 | -33 | 4   | 3   | -2  | 6   |
| 40% Exceedance                              | -2  | -15 | -6  | 10  | 4   | 2   | -18 | -30 | 1   | 2   | 11  | 12  |
| 50% Exceedance                              | 8   | -44 | -18 | -30 | 1   | 5   | -15 | -23 | -5  | -3  | 15  | 18  |
| 60% Exceedance                              | 8   | 5   | 6   | 2   | 1   | 3   | -15 | -32 | -6  | -2  | 10  | 11  |
| 70% Exceedance                              | 6   | -1  | -14 | 1   | 6   | -1  | -18 | -39 | -9  | 1   | 11  | 14  |
| 80% Exceedance                              | 1   | -1  | -6  | -1  | 0   | -3  | -32 | -37 | -3  | 1   | 6   | 12  |
| 90% Exceedance                              | 0   | -6  | 0   | 2   | 3   | -4  | -16 | -49 | -7  | 3   | 7   | 3   |
| Full Simulation Period Average <sup>a</sup> | 4   | 2   | -6  | -1  | -3  | -2  | -17 | -29 | -4  | -1  | 5   | 7   |
| Wet Water Years (28%)                       | 2   | 0   | -5  | -8  | -1  | -11 | -13 | -32 | -6  | 1   | 6   | 8   |
| Above Normal Years (14%)                    | 4   | -3  | -9  | -4  | 12  | -1  | -45 | -48 | -5  | -3  | 13  | 15  |
| Below Normal Years (18%)                    | 5   | -12 | -7  | -5  | 3   | 1   | -18 | -32 | -3  | 0   | 10  | 2   |
| Dry Water Years (24%)                       | 8   | 7   | 7   | 8   | -3  | 3   | -13 | -21 | 2   | 3   | 8   | 16  |
| Critical Water Years (16%)                  | 1   | 18  | -26 | 8   | -23 | 1   | -5  | -14 | -10 | -10 | -14 | -10 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-18-5a. Old River at Highway 4, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 684 | 798 | 864 | 867 | 648 | 435 | 465 | 439 | 467 | 555 | 589 | 649 |
| 20% Exceedance                              | 656 | 730 | 816 | 755 | 558 | 403 | 420 | 407 | 314 | 350 | 469 | 596 |
| 30% Exceedance                              | 645 | 664 | 777 | 640 | 458 | 385 | 406 | 387 | 304 | 320 | 421 | 562 |
| 40% Exceedance                              | 626 | 631 | 758 | 567 | 412 | 373 | 392 | 372 | 300 | 311 | 393 | 535 |
| 50% Exceedance                              | 577 | 596 | 688 | 520 | 391 | 357 | 378 | 357 | 296 | 298 | 349 | 491 |
| 60% Exceedance                              | 261 | 324 | 586 | 413 | 360 | 342 | 368 | 351 | 288 | 268 | 312 | 343 |
| 70% Exceedance                              | 254 | 308 | 521 | 342 | 331 | 330 | 354 | 337 | 281 | 259 | 280 | 311 |
| 80% Exceedance                              | 251 | 298 | 451 | 324 | 308 | 310 | 345 | 317 | 267 | 252 | 270 | 299 |
| 90% Exceedance                              | 246 | 278 | 317 | 277 | 270 | 274 | 288 | 255 | 219 | 245 | 263 | 285 |
| Full Simulation Period Average <sup>a</sup> | 473 | 514 | 637 | 525 | 426 | 363 | 376 | 357 | 316 | 328 | 384 | 458 |
| Wet Water Years (28%)                       | 249 | 296 | 532 | 351 | 328 | 298 | 292 | 267 | 245 | 250 | 272 | 295 |
| Above Normal Years (14%)                    | 254 | 295 | 605 | 493 | 377 | 353 | 400 | 365 | 287 | 257 | 276 | 308 |
| Below Normal Years (18%)                    | 606 | 609 | 639 | 544 | 403 | 364 | 386 | 362 | 293 | 299 | 378 | 551 |
| Dry Water Years (24%)                       | 638 | 646 | 651 | 631 | 485 | 375 | 388 | 373 | 299 | 329 | 429 | 534 |
| Critical Water Years (16%)                  | 688 | 811 | 842 | 676 | 580 | 465 | 471 | 480 | 520 | 560 | 612 | 657 |

**Table F.2.5-18-5b. Old River at Highway 4, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 659 | 731 | 810 | 828 | 823 | 840 | 722 | 633 | 614 | 608 | 619 | 647 |
| 20% Exceedance                              | 643 | 708 | 771 | 787 | 784 | 815 | 708 | 612 | 601 | 587 | 590 | 609 |
| 30% Exceedance                              | 631 | 690 | 752 | 769 | 769 | 799 | 685 | 593 | 590 | 576 | 576 | 584 |
| 40% Exceedance                              | 624 | 681 | 736 | 751 | 754 | 782 | 655 | 569 | 576 | 557 | 563 | 576 |
| 50% Exceedance                              | 620 | 668 | 721 | 733 | 714 | 730 | 574 | 500 | 536 | 548 | 544 | 555 |
| 60% Exceedance                              | 605 | 656 | 698 | 717 | 665 | 597 | 412 | 417 | 496 | 535 | 529 | 541 |
| 70% Exceedance                              | 589 | 636 | 687 | 676 | 521 | 422 | 364 | 364 | 473 | 526 | 516 | 522 |
| 80% Exceedance                              | 536 | 617 | 661 | 570 | 315 | 349 | 301 | 285 | 408 | 499 | 502 | 499 |
| 90% Exceedance                              | 492 | 579 | 592 | 276 | 201 | 224 | 195 | 122 | 295 | 462 | 462 | 453 |
| Full Simulation Period Average <sup>a</sup> | 598 | 657 | 692 | 667 | 609 | 605 | 507 | 447 | 496 | 540 | 546 | 558 |
| Wet Water Years (28%)                       | 533 | 608 | 625 | 522 | 397 | 342 | 265 | 235 | 354 | 483 | 494 | 496 |
| Above Normal Years (14%)                    | 590 | 660 | 733 | 691 | 583 | 539 | 452 | 419 | 472 | 524 | 525 | 532 |
| Below Normal Years (18%)                    | 600 | 679 | 709 | 686 | 629 | 648 | 535 | 479 | 518 | 543 | 540 | 545 |
| Dry Water Years (24%)                       | 625 | 671 | 688 | 743 | 739 | 779 | 665 | 572 | 579 | 567 | 558 | 573 |
| Critical Water Years (16%)                  | 681 | 699 | 761 | 763 | 783 | 817 | 709 | 622 | 612 | 612 | 644 | 682 |

**Table F.2.5-18-5c. Old River at Highway 4, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov  | Dec | Jan | Feb | Mar | Apr | May  | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
| 10% Exceedance                              | -24 | -66  | -54 | -40 | 175 | 406 | 257 | 194  | 148 | 54  | 30  | -3  |
| 20% Exceedance                              | -13 | -22  | -45 | 32  | 226 | 413 | 288 | 205  | 287 | 237 | 121 | 14  |
| 30% Exceedance                              | -14 | 26   | -25 | 130 | 311 | 414 | 279 | 206  | 286 | 255 | 155 | 22  |
| 40% Exceedance                              | -2  | 50   | -22 | 184 | 341 | 409 | 263 | 197  | 275 | 246 | 170 | 40  |
| 50% Exceedance                              | 43  | 71   | 33  | 213 | 323 | 374 | 195 | 143  | 240 | 249 | 195 | 64  |
| 60% Exceedance                              | 343 | 332  | 112 | 305 | 304 | 254 | 45  | 66   | 208 | 267 | 217 | 198 |
| 70% Exceedance                              | 335 | 328  | 166 | 333 | 189 | 91  | 10  | 27   | 192 | 267 | 236 | 211 |
| 80% Exceedance                              | 284 | 319  | 210 | 246 | 7   | 39  | -45 | -32  | 142 | 246 | 232 | 199 |
| 90% Exceedance                              | 246 | 301  | 275 | -2  | -69 | -51 | -93 | -133 | 77  | 217 | 199 | 168 |
| Full Simulation Period Average <sup>a</sup> | 125 | 144  | 54  | 142 | 182 | 243 | 131 | 90   | 179 | 212 | 162 | 100 |
| Wet Water Years (28%)                       | 284 | 312  | 93  | 171 | 69  | 45  | -26 | -32  | 110 | 233 | 222 | 201 |
| Above Normal Years (14%)                    | 336 | 364  | 128 | 198 | 206 | 186 | 52  | 54   | 186 | 267 | 249 | 223 |
| Below Normal Years (18%)                    | -5  | 71   | 70  | 142 | 225 | 284 | 149 | 117  | 225 | 244 | 162 | -5  |
| Dry Water Years (24%)                       | -13 | 24   | 37  | 112 | 254 | 403 | 277 | 199  | 280 | 238 | 129 | 38  |
| Critical Water Years (16%)                  | -7  | -112 | -81 | 87  | 203 | 351 | 238 | 142  | 92  | 51  | 32  | 25  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-18-6a. Old River at Highway 4, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,449 | 1,223 | 1,142 | 878 | 810 | 810 | 721 | 646 | 627 | 839 | 1,359 | 1,835 |
| 20% Exceedance                              | 1,222 | 1,086 | 968   | 831 | 757 | 771 | 675 | 606 | 595 | 717 | 1,119 | 1,517 |
| 30% Exceedance                              | 1,015 | 937   | 875   | 779 | 735 | 738 | 629 | 574 | 580 | 650 | 937   | 1,200 |
| 40% Exceedance                              | 916   | 860   | 819   | 739 | 698 | 709 | 589 | 519 | 547 | 587 | 814   | 1,096 |
| 50% Exceedance                              | 834   | 789   | 778   | 721 | 658 | 630 | 480 | 443 | 506 | 563 | 709   | 918   |
| 60% Exceedance                              | 754   | 756   | 741   | 686 | 593 | 488 | 386 | 377 | 487 | 547 | 639   | 803   |
| 70% Exceedance                              | 675   | 710   | 718   | 653 | 521 | 364 | 319 | 312 | 465 | 529 | 582   | 650   |
| 80% Exceedance                              | 619   | 676   | 679   | 529 | 293 | 311 | 253 | 239 | 372 | 494 | 559   | 599   |
| 90% Exceedance                              | 584   | 646   | 598   | 290 | 202 | 205 | 140 | 107 | 258 | 456 | 533   | 579   |
| Full Simulation Period Average <sup>a</sup> | 937   | 876   | 810   | 675 | 581 | 553 | 463 | 421 | 486 | 619 | 857   | 1,084 |
| Wet Water Years (28%)                       | 642   | 668   | 657   | 459 | 345 | 294 | 228 | 209 | 334 | 477 | 563   | 640   |
| Above Normal Years (14%)                    | 733   | 738   | 753   | 662 | 539 | 458 | 387 | 370 | 453 | 533 | 654   | 815   |
| Below Normal Years (18%)                    | 925   | 852   | 755   | 692 | 611 | 586 | 476 | 446 | 501 | 596 | 845   | 1,096 |
| Dry Water Years (24%)                       | 1,091 | 951   | 840   | 771 | 713 | 721 | 606 | 536 | 561 | 657 | 958   | 1,286 |
| Critical Water Years (16%)                  | 1,459 | 1,314 | 1,169 | 904 | 798 | 799 | 711 | 633 | 649 | 910 | 1,410 | 1,782 |

**Table F.2.5-18-6b. Old River at Highway 4, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 704 | 820 | 846 | 845 | 640 | 472 | 427 | 400 | 398 | 427 | 510 | 597 |
| 20% Exceedance                              | 674 | 727 | 799 | 753 | 530 | 408 | 407 | 374 | 317 | 353 | 443 | 573 |
| 30% Exceedance                              | 647 | 665 | 775 | 652 | 448 | 385 | 387 | 354 | 309 | 325 | 413 | 555 |
| 40% Exceedance                              | 624 | 619 | 737 | 575 | 417 | 377 | 374 | 341 | 301 | 314 | 393 | 542 |
| 50% Exceedance                              | 593 | 552 | 672 | 502 | 396 | 364 | 363 | 334 | 291 | 296 | 364 | 501 |
| 60% Exceedance                              | 270 | 330 | 588 | 413 | 367 | 345 | 352 | 319 | 282 | 267 | 322 | 354 |
| 70% Exceedance                              | 259 | 308 | 502 | 344 | 337 | 329 | 336 | 299 | 272 | 259 | 291 | 325 |
| 80% Exceedance                              | 252 | 296 | 445 | 323 | 306 | 308 | 314 | 280 | 264 | 254 | 276 | 308 |
| 90% Exceedance                              | 246 | 272 | 317 | 279 | 267 | 266 | 271 | 207 | 212 | 248 | 270 | 289 |
| Full Simulation Period Average <sup>a</sup> | 480 | 516 | 625 | 526 | 427 | 365 | 358 | 322 | 301 | 314 | 370 | 453 |
| Wet Water Years (28%)                       | 251 | 297 | 527 | 343 | 326 | 287 | 280 | 235 | 239 | 251 | 278 | 302 |
| Above Normal Years (14%)                    | 257 | 292 | 596 | 488 | 384 | 352 | 356 | 317 | 281 | 253 | 288 | 322 |
| Below Normal Years (18%)                    | 612 | 600 | 629 | 553 | 409 | 366 | 368 | 331 | 290 | 300 | 384 | 543 |
| Dry Water Years (24%)                       | 647 | 654 | 655 | 630 | 480 | 378 | 375 | 352 | 301 | 333 | 437 | 550 |
| Critical Water Years (16%)                  | 707 | 830 | 785 | 692 | 583 | 493 | 456 | 420 | 440 | 464 | 485 | 586 |

**Table F.2.5-18-6c. Old River at Highway 4, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -744 | -402 | -296 | -33  | -170 | -338 | -293 | -246 | -228 | -412 | -849 | -1,238 |
| 20% Exceedance                              | -547 | -359 | -169 | -77  | -228 | -363 | -268 | -232 | -278 | -364 | -676 | -944   |
| 30% Exceedance                              | -368 | -272 | -99  | -126 | -288 | -353 | -242 | -220 | -272 | -325 | -524 | -645   |
| 40% Exceedance                              | -293 | -241 | -82  | -164 | -281 | -332 | -215 | -178 | -246 | -274 | -422 | -554   |
| 50% Exceedance                              | -242 | -236 | -105 | -219 | -262 | -266 | -117 | -109 | -215 | -268 | -345 | -417   |
| 60% Exceedance                              | -485 | -426 | -153 | -273 | -226 | -142 | -34  | -58  | -205 | -280 | -317 | -449   |
| 70% Exceedance                              | -416 | -402 | -215 | -310 | -184 | -35  | 17   | -13  | -192 | -270 | -292 | -325   |
| 80% Exceedance                              | -366 | -380 | -235 | -206 | 13   | -3   | 62   | 41   | -109 | -240 | -283 | -291   |
| 90% Exceedance                              | -338 | -374 | -280 | -11  | 65   | 61   | 132  | 100  | -46  | -208 | -263 | -290   |
| Full Simulation Period Average <sup>a</sup> | -457 | -360 | -185 | -149 | -154 | -187 | -105 | -99  | -185 | -305 | -487 | -631   |
| Wet Water Years (28%)                       | -391 | -371 | -130 | -116 | -19  | -7   | 52   | 26   | -95  | -226 | -285 | -338   |
| Above Normal Years (14%)                    | -476 | -446 | -158 | -174 | -155 | -106 | -32  | -53  | -171 | -280 | -366 | -492   |
| Below Normal Years (18%)                    | -313 | -251 | -126 | -138 | -202 | -220 | -108 | -115 | -212 | -296 | -461 | -552   |
| Dry Water Years (24%)                       | -444 | -298 | -185 | -141 | -233 | -343 | -230 | -183 | -260 | -325 | -521 | -736   |
| Critical Water Years (16%)                  | -752 | -483 | -384 | -211 | -215 | -306 | -255 | -213 | -210 | -446 | -925 | -1,196 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-18-7a. Old River at Highway 4, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,449 | 1,223 | 1,142 | 878 | 810 | 810 | 721 | 646 | 627 | 839 | 1,359 | 1,835 |
| 20% Exceedance                              | 1,222 | 1,086 | 968   | 831 | 757 | 771 | 675 | 606 | 595 | 717 | 1,119 | 1,517 |
| 30% Exceedance                              | 1,015 | 937   | 875   | 779 | 735 | 738 | 629 | 574 | 580 | 650 | 937   | 1,200 |
| 40% Exceedance                              | 916   | 860   | 819   | 739 | 698 | 709 | 589 | 519 | 547 | 587 | 814   | 1,096 |
| 50% Exceedance                              | 834   | 789   | 778   | 721 | 658 | 630 | 480 | 443 | 506 | 563 | 709   | 918   |
| 60% Exceedance                              | 754   | 756   | 741   | 686 | 593 | 488 | 386 | 377 | 487 | 547 | 639   | 803   |
| 70% Exceedance                              | 675   | 710   | 718   | 653 | 521 | 364 | 319 | 312 | 465 | 529 | 582   | 650   |
| 80% Exceedance                              | 619   | 676   | 679   | 529 | 293 | 311 | 253 | 239 | 372 | 494 | 559   | 599   |
| 90% Exceedance                              | 584   | 646   | 598   | 290 | 202 | 205 | 140 | 107 | 258 | 456 | 533   | 579   |
| Full Simulation Period Average <sup>a</sup> | 937   | 876   | 810   | 675 | 581 | 553 | 463 | 421 | 486 | 619 | 857   | 1,084 |
| Wet Water Years (28%)                       | 642   | 668   | 657   | 459 | 345 | 294 | 228 | 209 | 334 | 477 | 563   | 640   |
| Above Normal Years (14%)                    | 733   | 738   | 753   | 662 | 539 | 458 | 387 | 370 | 453 | 533 | 654   | 815   |
| Below Normal Years (18%)                    | 925   | 852   | 755   | 692 | 611 | 586 | 476 | 446 | 501 | 596 | 845   | 1,096 |
| Dry Water Years (24%)                       | 1,091 | 951   | 840   | 771 | 713 | 721 | 606 | 536 | 561 | 657 | 958   | 1,286 |
| Critical Water Years (16%)                  | 1,459 | 1,314 | 1,169 | 904 | 798 | 799 | 711 | 633 | 649 | 910 | 1,410 | 1,782 |

**Table F.2.5-18-7b. Old River at Highway 4, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 713 | 825 | 848 | 848 | 646 | 494 | 504 | 419 | 399 | 425 | 504 | 610 |
| 20% Exceedance                              | 669 | 722 | 806 | 726 | 534 | 466 | 471 | 398 | 326 | 349 | 461 | 586 |
| 30% Exceedance                              | 649 | 660 | 772 | 634 | 462 | 447 | 445 | 389 | 315 | 322 | 417 | 569 |
| 40% Exceedance                              | 625 | 622 | 737 | 571 | 416 | 409 | 430 | 380 | 309 | 313 | 398 | 546 |
| 50% Exceedance                              | 600 | 576 | 662 | 503 | 395 | 399 | 420 | 373 | 295 | 301 | 363 | 513 |
| 60% Exceedance                              | 269 | 330 | 580 | 414 | 367 | 388 | 400 | 343 | 288 | 269 | 323 | 348 |
| 70% Exceedance                              | 258 | 309 | 514 | 343 | 338 | 367 | 372 | 321 | 277 | 260 | 287 | 323 |
| 80% Exceedance                              | 250 | 296 | 442 | 323 | 306 | 310 | 343 | 289 | 264 | 255 | 275 | 307 |
| 90% Exceedance                              | 246 | 273 | 318 | 281 | 267 | 266 | 284 | 219 | 212 | 248 | 266 | 288 |
| Full Simulation Period Average <sup>a</sup> | 484 | 519 | 627 | 524 | 432 | 399 | 402 | 343 | 305 | 315 | 372 | 459 |
| Wet Water Years (28%)                       | 250 | 298 | 528 | 344 | 327 | 295 | 292 | 242 | 240 | 250 | 277 | 301 |
| Above Normal Years (14%)                    | 257 | 294 | 601 | 489 | 384 | 405 | 439 | 357 | 287 | 260 | 288 | 318 |
| Below Normal Years (18%)                    | 614 | 602 | 635 | 558 | 413 | 433 | 441 | 359 | 295 | 301 | 388 | 553 |
| Dry Water Years (24%)                       | 649 | 654 | 651 | 618 | 482 | 413 | 436 | 386 | 309 | 334 | 446 | 563 |
| Critical Water Years (16%)                  | 724 | 837 | 792 | 690 | 602 | 518 | 467 | 425 | 441 | 461 | 486 | 593 |

**Table F.2.5-18-7c. Old River at Highway 4, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -736 | -397 | -294 | -29  | -164 | -316 | -217 | -227 | -227 | -413 | -854 | -1,225 |
| 20% Exceedance                              | -552 | -365 | -162 | -105 | -224 | -304 | -204 | -208 | -269 | -368 | -658 | -931   |
| 30% Exceedance                              | -367 | -277 | -102 | -144 | -273 | -291 | -184 | -185 | -265 | -327 | -520 | -631   |
| 40% Exceedance                              | -291 | -238 | -82  | -168 | -282 | -300 | -159 | -139 | -238 | -275 | -416 | -549   |
| 50% Exceedance                              | -235 | -212 | -116 | -219 | -264 | -231 | -60  | -70  | -212 | -262 | -346 | -405   |
| 60% Exceedance                              | -486 | -426 | -161 | -273 | -225 | -100 | 14   | -33  | -199 | -278 | -316 | -455   |
| 70% Exceedance                              | -417 | -402 | -204 | -310 | -183 | 3    | 53   | 9    | -187 | -269 | -295 | -327   |
| 80% Exceedance                              | -368 | -380 | -238 | -206 | 13   | -1   | 91   | 50   | -108 | -239 | -284 | -292   |
| 90% Exceedance                              | -338 | -372 | -280 | -9   | 65   | 61   | 144  | 112  | -46  | -208 | -267 | -291   |
| Full Simulation Period Average <sup>a</sup> | -453 | -358 | -183 | -151 | -149 | -153 | -61  | -78  | -181 | -304 | -484 | -626   |
| Wet Water Years (28%)                       | -392 | -370 | -129 | -115 | -18  | 2    | 64   | 32   | -95  | -226 | -286 | -339   |
| Above Normal Years (14%)                    | -477 | -444 | -152 | -173 | -155 | -52  | 51   | -14  | -165 | -273 | -366 | -497   |
| Below Normal Years (18%)                    | -311 | -249 | -120 | -134 | -198 | -153 | -35  | -88  | -207 | -295 | -457 | -542   |
| Dry Water Years (24%)                       | -442 | -297 | -189 | -153 | -231 | -307 | -170 | -150 | -252 | -323 | -512 | -722   |
| Critical Water Years (16%)                  | -735 | -477 | -377 | -213 | -196 | -281 | -244 | -208 | -209 | -449 | -924 | -1,189 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-18-8a. Old River at Highway 4, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,449 | 1,223 | 1,142 | 878 | 810 | 810 | 721 | 646 | 627 | 839 | 1,359 | 1,835 |
| 20% Exceedance                              | 1,222 | 1,086 | 968   | 831 | 757 | 771 | 675 | 606 | 595 | 717 | 1,119 | 1,517 |
| 30% Exceedance                              | 1,015 | 937   | 875   | 779 | 735 | 738 | 629 | 574 | 580 | 650 | 937   | 1,200 |
| 40% Exceedance                              | 916   | 860   | 819   | 739 | 698 | 709 | 589 | 519 | 547 | 587 | 814   | 1,096 |
| 50% Exceedance                              | 834   | 789   | 778   | 721 | 658 | 630 | 480 | 443 | 506 | 563 | 709   | 918   |
| 60% Exceedance                              | 754   | 756   | 741   | 686 | 593 | 488 | 386 | 377 | 487 | 547 | 639   | 803   |
| 70% Exceedance                              | 675   | 710   | 718   | 653 | 521 | 364 | 319 | 312 | 465 | 529 | 582   | 650   |
| 80% Exceedance                              | 619   | 676   | 679   | 529 | 293 | 311 | 253 | 239 | 372 | 494 | 559   | 599   |
| 90% Exceedance                              | 584   | 646   | 598   | 290 | 202 | 205 | 140 | 107 | 258 | 456 | 533   | 579   |
| Full Simulation Period Average <sup>a</sup> | 937   | 876   | 810   | 675 | 581 | 553 | 463 | 421 | 486 | 619 | 857   | 1,084 |
| Wet Water Years (28%)                       | 642   | 668   | 657   | 459 | 345 | 294 | 228 | 209 | 334 | 477 | 563   | 640   |
| Above Normal Years (14%)                    | 733   | 738   | 753   | 662 | 539 | 458 | 387 | 370 | 453 | 533 | 654   | 815   |
| Below Normal Years (18%)                    | 925   | 852   | 755   | 692 | 611 | 586 | 476 | 446 | 501 | 596 | 845   | 1,096 |
| Dry Water Years (24%)                       | 1,091 | 951   | 840   | 771 | 713 | 721 | 606 | 536 | 561 | 657 | 958   | 1,286 |
| Critical Water Years (16%)                  | 1,459 | 1,314 | 1,169 | 904 | 798 | 799 | 711 | 633 | 649 | 910 | 1,410 | 1,782 |

**Table F.2.5-18-8b. Old River at Highway 4, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 710 | 817 | 850 | 850 | 654 | 497 | 502 | 420 | 390 | 421 | 505 | 600 |
| 20% Exceedance                              | 668 | 721 | 807 | 720 | 538 | 467 | 468 | 399 | 321 | 352 | 465 | 587 |
| 30% Exceedance                              | 642 | 652 | 781 | 625 | 450 | 450 | 445 | 388 | 310 | 324 | 416 | 571 |
| 40% Exceedance                              | 628 | 619 | 729 | 569 | 415 | 408 | 430 | 378 | 301 | 314 | 396 | 546 |
| 50% Exceedance                              | 598 | 595 | 662 | 508 | 394 | 398 | 419 | 371 | 293 | 296 | 362 | 514 |
| 60% Exceedance                              | 266 | 327 | 581 | 414 | 369 | 388 | 403 | 343 | 287 | 268 | 319 | 349 |
| 70% Exceedance                              | 257 | 308 | 521 | 344 | 339 | 365 | 372 | 320 | 276 | 260 | 281 | 320 |
| 80% Exceedance                              | 251 | 297 | 443 | 323 | 306 | 310 | 344 | 289 | 262 | 254 | 274 | 307 |
| 90% Exceedance                              | 245 | 270 | 318 | 280 | 267 | 266 | 284 | 219 | 212 | 247 | 266 | 287 |
| Full Simulation Period Average <sup>a</sup> | 483 | 518 | 629 | 521 | 431 | 400 | 402 | 341 | 300 | 312 | 370 | 457 |
| Wet Water Years (28%)                       | 250 | 298 | 528 | 348 | 328 | 297 | 292 | 241 | 239 | 251 | 276 | 301 |
| Above Normal Years (14%)                    | 255 | 294 | 603 | 488 | 380 | 404 | 438 | 356 | 286 | 254 | 280 | 313 |
| Below Normal Years (18%)                    | 614 | 604 | 633 | 547 | 412 | 434 | 441 | 356 | 290 | 302 | 383 | 553 |
| Dry Water Years (24%)                       | 645 | 645 | 648 | 609 | 472 | 412 | 435 | 386 | 305 | 335 | 450 | 564 |
| Critical Water Years (16%)                  | 732 | 847 | 806 | 694 | 614 | 523 | 467 | 419 | 422 | 446 | 479 | 590 |

**Table F.2.5-18-8c. Old River at Highway 4, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -739 | -406 | -292 | -28  | -156 | -313 | -219 | -226 | -237 | -417 | -854 | -1,236 |
| 20% Exceedance                              | -554 | -365 | -160 | -110 | -219 | -303 | -207 | -207 | -274 | -365 | -654 | -929   |
| 30% Exceedance                              | -373 | -285 | -94  | -153 | -285 | -288 | -184 | -186 | -270 | -325 | -522 | -630   |
| 40% Exceedance                              | -288 | -241 | -90  | -170 | -283 | -301 | -158 | -142 | -245 | -273 | -418 | -550   |
| 50% Exceedance                              | -236 | -193 | -115 | -214 | -264 | -232 | -61  | -72  | -214 | -267 | -348 | -404   |
| 60% Exceedance                              | -488 | -429 | -160 | -272 | -224 | -100 | 17   | -34  | -200 | -279 | -320 | -454   |
| 70% Exceedance                              | -418 | -402 | -197 | -309 | -183 | 1    | 53   | 8    | -188 | -269 | -301 | -330   |
| 80% Exceedance                              | -368 | -379 | -237 | -206 | 13   | -1   | 91   | 50   | -110 | -240 | -285 | -292   |
| 90% Exceedance                              | -339 | -375 | -280 | -10  | 65   | 61   | 145  | 112  | -46  | -209 | -267 | -292   |
| Full Simulation Period Average <sup>a</sup> | -454 | -358 | -181 | -154 | -150 | -153 | -61  | -79  | -186 | -307 | -487 | -627   |
| Wet Water Years (28%)                       | -392 | -370 | -129 | -111 | -17  | 3    | 63   | 32   | -95  | -226 | -287 | -339   |
| Above Normal Years (14%)                    | -478 | -444 | -150 | -174 | -159 | -54  | 51   | -14  | -167 | -279 | -374 | -501   |
| Below Normal Years (18%)                    | -312 | -248 | -121 | -145 | -199 | -153 | -35  | -90  | -212 | -294 | -461 | -543   |
| Dry Water Years (24%)                       | -446 | -306 | -192 | -162 | -240 | -309 | -170 | -149 | -256 | -322 | -508 | -722   |
| Critical Water Years (16%)                  | -727 | -467 | -364 | -210 | -183 | -276 | -244 | -214 | -228 | -464 | -931 | -1,193 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-18-9a. Old River at Highway 4, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,449 | 1,223 | 1,142 | 878 | 810 | 810 | 721 | 646 | 627 | 839 | 1,359 | 1,835 |
| 20% Exceedance                              | 1,222 | 1,086 | 968   | 831 | 757 | 771 | 675 | 606 | 595 | 717 | 1,119 | 1,517 |
| 30% Exceedance                              | 1,015 | 937   | 875   | 779 | 735 | 738 | 629 | 574 | 580 | 650 | 937   | 1,200 |
| 40% Exceedance                              | 916   | 860   | 819   | 739 | 698 | 709 | 589 | 519 | 547 | 587 | 814   | 1,096 |
| 50% Exceedance                              | 834   | 789   | 778   | 721 | 658 | 630 | 480 | 443 | 506 | 563 | 709   | 918   |
| 60% Exceedance                              | 754   | 756   | 741   | 686 | 593 | 488 | 386 | 377 | 487 | 547 | 639   | 803   |
| 70% Exceedance                              | 675   | 710   | 718   | 653 | 521 | 364 | 319 | 312 | 465 | 529 | 582   | 650   |
| 80% Exceedance                              | 619   | 676   | 679   | 529 | 293 | 311 | 253 | 239 | 372 | 494 | 559   | 599   |
| 90% Exceedance                              | 584   | 646   | 598   | 290 | 202 | 205 | 140 | 107 | 258 | 456 | 533   | 579   |
| Full Simulation Period Average <sup>a</sup> | 937   | 876   | 810   | 675 | 581 | 553 | 463 | 421 | 486 | 619 | 857   | 1,084 |
| Wet Water Years (28%)                       | 642   | 668   | 657   | 459 | 345 | 294 | 228 | 209 | 334 | 477 | 563   | 640   |
| Above Normal Years (14%)                    | 733   | 738   | 753   | 662 | 539 | 458 | 387 | 370 | 453 | 533 | 654   | 815   |
| Below Normal Years (18%)                    | 925   | 852   | 755   | 692 | 611 | 586 | 476 | 446 | 501 | 596 | 845   | 1,096 |
| Dry Water Years (24%)                       | 1,091 | 951   | 840   | 771 | 713 | 721 | 606 | 536 | 561 | 657 | 958   | 1,286 |
| Critical Water Years (16%)                  | 1,459 | 1,314 | 1,169 | 904 | 798 | 799 | 711 | 633 | 649 | 910 | 1,410 | 1,782 |

**Table F.2.5-18-9b. Old River at Highway 4, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 689 | 816 | 856 | 849 | 637 | 458 | 437 | 431 | 440 | 567 | 607 | 656 |
| 20% Exceedance                              | 662 | 735 | 818 | 738 | 531 | 398 | 405 | 372 | 317 | 353 | 462 | 590 |
| 30% Exceedance                              | 641 | 665 | 783 | 654 | 459 | 383 | 388 | 354 | 309 | 323 | 419 | 568 |
| 40% Exceedance                              | 624 | 616 | 751 | 578 | 416 | 375 | 374 | 341 | 301 | 312 | 404 | 547 |
| 50% Exceedance                              | 585 | 553 | 670 | 490 | 392 | 362 | 363 | 334 | 291 | 296 | 364 | 509 |
| 60% Exceedance                              | 270 | 330 | 592 | 414 | 361 | 345 | 352 | 319 | 282 | 267 | 322 | 354 |
| 70% Exceedance                              | 259 | 307 | 507 | 344 | 337 | 330 | 336 | 298 | 272 | 259 | 291 | 325 |
| 80% Exceedance                              | 252 | 296 | 445 | 323 | 309 | 308 | 313 | 280 | 264 | 254 | 276 | 311 |
| 90% Exceedance                              | 246 | 272 | 317 | 279 | 273 | 270 | 271 | 207 | 212 | 248 | 270 | 289 |
| Full Simulation Period Average <sup>a</sup> | 477 | 515 | 631 | 524 | 424 | 361 | 359 | 328 | 312 | 327 | 389 | 465 |
| Wet Water Years (28%)                       | 251 | 297 | 527 | 343 | 327 | 287 | 279 | 235 | 239 | 251 | 278 | 302 |
| Above Normal Years (14%)                    | 257 | 292 | 596 | 489 | 388 | 352 | 355 | 317 | 281 | 253 | 289 | 323 |
| Below Normal Years (18%)                    | 611 | 597 | 632 | 539 | 406 | 365 | 368 | 329 | 290 | 299 | 388 | 553 |
| Dry Water Years (24%)                       | 647 | 653 | 658 | 639 | 483 | 378 | 375 | 352 | 301 | 332 | 438 | 550 |
| Critical Water Years (16%)                  | 689 | 829 | 816 | 684 | 557 | 466 | 466 | 466 | 510 | 551 | 598 | 648 |

**Table F.2.5-18-9c. Old River at Highway 4, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -759 | -407 | -286 | -29  | -173 | -352 | -284 | -215 | -187 | -271 | -752 | -1,179 |
| 20% Exceedance                              | -559 | -351 | -150 | -92  | -226 | -373 | -270 | -234 | -278 | -364 | -657 | -927   |
| 30% Exceedance                              | -374 | -272 | -92  | -125 | -276 | -355 | -241 | -220 | -272 | -326 | -518 | -633   |
| 40% Exceedance                              | -292 | -244 | -68  | -161 | -282 | -334 | -215 | -178 | -246 | -275 | -410 | -549   |
| 50% Exceedance                              | -249 | -236 | -107 | -231 | -266 | -268 | -117 | -109 | -215 | -268 | -346 | -409   |
| 60% Exceedance                              | -485 | -426 | -149 | -272 | -232 | -142 | -34  | -58  | -205 | -280 | -317 | -449   |
| 70% Exceedance                              | -416 | -404 | -211 | -310 | -184 | -34  | 17   | -13  | -192 | -269 | -292 | -325   |
| 80% Exceedance                              | -366 | -380 | -235 | -206 | 16   | -3   | 60   | 41   | -109 | -240 | -283 | -288   |
| 90% Exceedance                              | -338 | -374 | -280 | -11  | 71   | 65   | 132  | 100  | -46  | -208 | -263 | -290   |
| Full Simulation Period Average <sup>a</sup> | -460 | -361 | -179 | -151 | -157 | -192 | -104 | -92  | -173 | -291 | -468 | -619   |
| Wet Water Years (28%)                       | -391 | -371 | -130 | -116 | -19  | -7   | 51   | 26   | -95  | -226 | -285 | -338   |
| Above Normal Years (14%)                    | -476 | -445 | -157 | -173 | -151 | -106 | -32  | -53  | -171 | -280 | -365 | -492   |
| Below Normal Years (18%)                    | -315 | -255 | -122 | -153 | -205 | -221 | -108 | -117 | -212 | -296 | -456 | -543   |
| Dry Water Years (24%)                       | -444 | -298 | -182 | -132 | -230 | -342 | -230 | -183 | -260 | -325 | -521 | -735   |
| Critical Water Years (16%)                  | -770 | -485 | -353 | -219 | -241 | -333 | -244 | -167 | -139 | -360 | -812 | -1,135 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-18-10a. Old River at Highway 4, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,449 | 1,223 | 1,142 | 878 | 810 | 810 | 721 | 646 | 627 | 839 | 1,359 | 1,835 |
| 20% Exceedance                              | 1,222 | 1,086 | 968   | 831 | 757 | 771 | 675 | 606 | 595 | 717 | 1,119 | 1,517 |
| 30% Exceedance                              | 1,015 | 937   | 875   | 779 | 735 | 738 | 629 | 574 | 580 | 650 | 937   | 1,200 |
| 40% Exceedance                              | 916   | 860   | 819   | 739 | 698 | 709 | 589 | 519 | 547 | 587 | 814   | 1,096 |
| 50% Exceedance                              | 834   | 789   | 778   | 721 | 658 | 630 | 480 | 443 | 506 | 563 | 709   | 918   |
| 60% Exceedance                              | 754   | 756   | 741   | 686 | 593 | 488 | 386 | 377 | 487 | 547 | 639   | 803   |
| 70% Exceedance                              | 675   | 710   | 718   | 653 | 521 | 364 | 319 | 312 | 465 | 529 | 582   | 650   |
| 80% Exceedance                              | 619   | 676   | 679   | 529 | 293 | 311 | 253 | 239 | 372 | 494 | 559   | 599   |
| 90% Exceedance                              | 584   | 646   | 598   | 290 | 202 | 205 | 140 | 107 | 258 | 456 | 533   | 579   |
| Full Simulation Period Average <sup>a</sup> | 937   | 876   | 810   | 675 | 581 | 553 | 463 | 421 | 486 | 619 | 857   | 1,084 |
| Wet Water Years (28%)                       | 642   | 668   | 657   | 459 | 345 | 294 | 228 | 209 | 334 | 477 | 563   | 640   |
| Above Normal Years (14%)                    | 733   | 738   | 753   | 662 | 539 | 458 | 387 | 370 | 453 | 533 | 654   | 815   |
| Below Normal Years (18%)                    | 925   | 852   | 755   | 692 | 611 | 586 | 476 | 446 | 501 | 596 | 845   | 1,096 |
| Dry Water Years (24%)                       | 1,091 | 951   | 840   | 771 | 713 | 721 | 606 | 536 | 561 | 657 | 958   | 1,286 |
| Critical Water Years (16%)                  | 1,459 | 1,314 | 1,169 | 904 | 798 | 799 | 711 | 633 | 649 | 910 | 1,410 | 1,782 |

**Table F.2.5-18-10b. Old River at Highway 4, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 684 | 798 | 864 | 867 | 648 | 435 | 465 | 439 | 467 | 555 | 589 | 649 |
| 20% Exceedance                              | 656 | 730 | 816 | 755 | 558 | 403 | 420 | 407 | 314 | 350 | 469 | 596 |
| 30% Exceedance                              | 645 | 664 | 777 | 640 | 458 | 385 | 406 | 387 | 304 | 320 | 421 | 562 |
| 40% Exceedance                              | 626 | 631 | 758 | 567 | 412 | 373 | 392 | 372 | 300 | 311 | 393 | 535 |
| 50% Exceedance                              | 577 | 596 | 688 | 520 | 391 | 357 | 378 | 357 | 296 | 298 | 349 | 491 |
| 60% Exceedance                              | 261 | 324 | 586 | 413 | 360 | 342 | 368 | 351 | 288 | 268 | 312 | 343 |
| 70% Exceedance                              | 254 | 308 | 521 | 342 | 331 | 330 | 354 | 337 | 281 | 259 | 280 | 311 |
| 80% Exceedance                              | 251 | 298 | 451 | 324 | 308 | 310 | 345 | 317 | 267 | 252 | 270 | 299 |
| 90% Exceedance                              | 246 | 278 | 317 | 277 | 270 | 274 | 288 | 255 | 219 | 245 | 263 | 285 |
| Full Simulation Period Average <sup>a</sup> | 473 | 514 | 637 | 525 | 426 | 363 | 376 | 357 | 316 | 328 | 384 | 458 |
| Wet Water Years (28%)                       | 249 | 296 | 532 | 351 | 328 | 298 | 292 | 267 | 245 | 250 | 272 | 295 |
| Above Normal Years (14%)                    | 254 | 295 | 605 | 493 | 377 | 353 | 400 | 365 | 287 | 257 | 276 | 308 |
| Below Normal Years (18%)                    | 606 | 609 | 639 | 544 | 403 | 364 | 386 | 362 | 293 | 299 | 378 | 551 |
| Dry Water Years (24%)                       | 638 | 646 | 651 | 631 | 485 | 375 | 388 | 373 | 299 | 329 | 429 | 534 |
| Critical Water Years (16%)                  | 688 | 811 | 842 | 676 | 580 | 465 | 471 | 480 | 520 | 560 | 612 | 657 |

**Table F.2.5-18-10c. Old River at Highway 4, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -765 | -425 | -278 | -10  | -162 | -375 | -255 | -207 | -160 | -284 | -770 | -1,186 |
| 20% Exceedance                              | -565 | -356 | -151 | -76  | -200 | -368 | -255 | -199 | -281 | -367 | -650 | -921   |
| 30% Exceedance                              | -370 | -273 | -97  | -139 | -277 | -352 | -223 | -187 | -276 | -329 | -516 | -638   |
| 40% Exceedance                              | -290 | -229 | -61  | -171 | -286 | -336 | -197 | -148 | -246 | -277 | -421 | -560   |
| 50% Exceedance                              | -257 | -192 | -89  | -201 | -267 | -273 | -102 | -86  | -210 | -265 | -360 | -427   |
| 60% Exceedance                              | -493 | -432 | -154 | -274 | -233 | -145 | -18  | -26  | -200 | -279 | -327 | -460   |
| 70% Exceedance                              | -421 | -403 | -197 | -311 | -190 | -33  | 35   | 25   | -184 | -270 | -303 | -339   |
| 80% Exceedance                              | -368 | -378 | -229 | -205 | 15   | 0    | 93   | 78   | -106 | -242 | -289 | -300   |
| 90% Exceedance                              | -338 | -368 | -281 | -12  | 68   | 69   | 148  | 148  | -40  | -211 | -270 | -294   |
| Full Simulation Period Average <sup>a</sup> | -464 | -363 | -172 | -151 | -154 | -190 | -87  | -63  | -169 | -290 | -473 | -626   |
| Wet Water Years (28%)                       | -393 | -371 | -125 | -108 | -17  | 4    | 63   | 58   | -90  | -227 | -290 | -346   |
| Above Normal Years (14%)                    | -480 | -442 | -148 | -169 | -163 | -105 | 13   | -6   | -166 | -276 | -378 | -506   |
| Below Normal Years (18%)                    | -320 | -243 | -115 | -148 | -207 | -222 | -90  | -85  | -209 | -296 | -467 | -545   |
| Dry Water Years (24%)                       | -453 | -305 | -189 | -140 | -228 | -345 | -218 | -162 | -261 | -328 | -529 | -751   |
| Critical Water Years (16%)                  | -771 | -503 | -328 | -227 | -218 | -334 | -239 | -153 | -129 | -350 | -798 | -1,125 |

<sup>a</sup> Based on the 100-year simulation period.

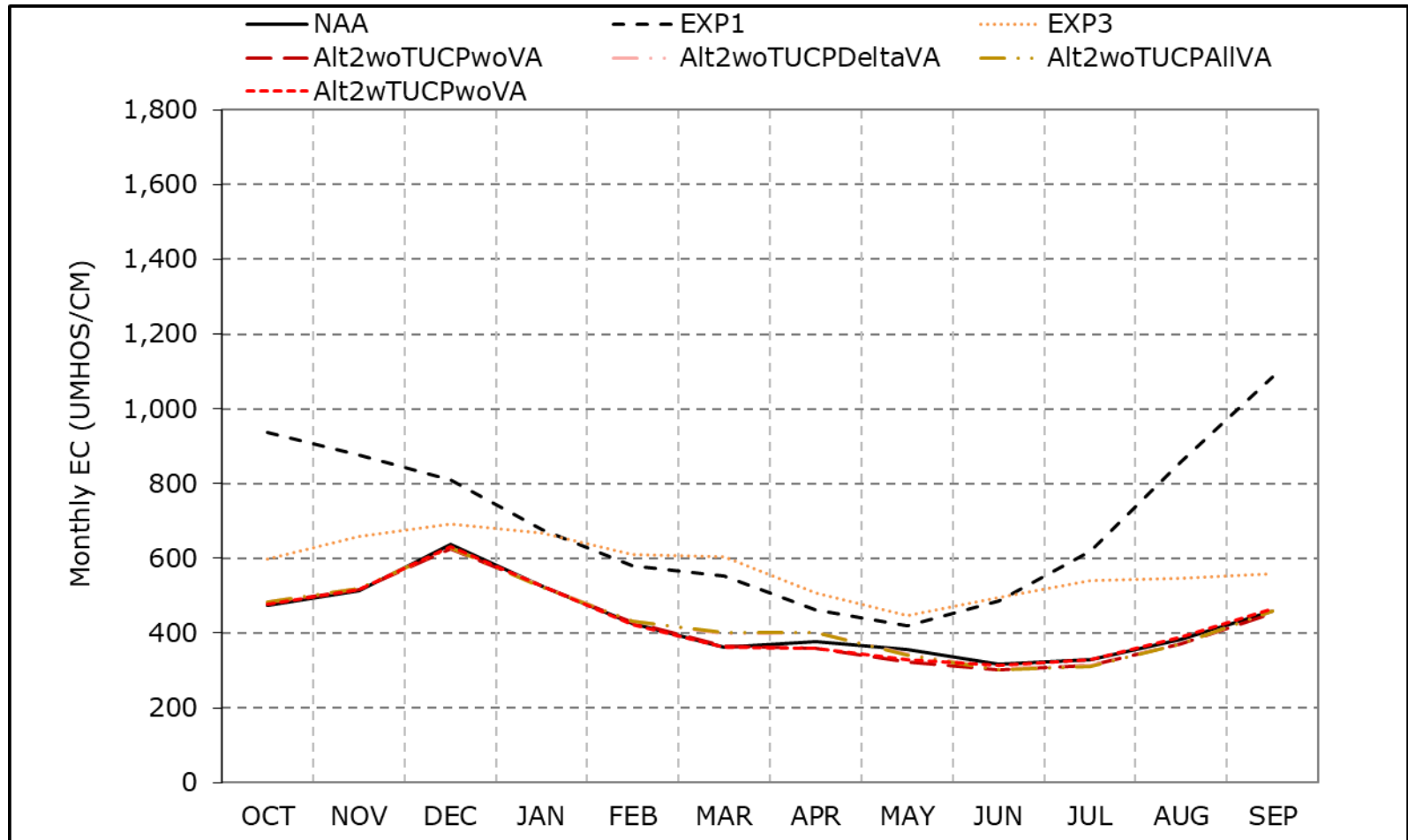
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Figure F.2.5-18-1. Old River at Highway 4, Long-Term Average EC**

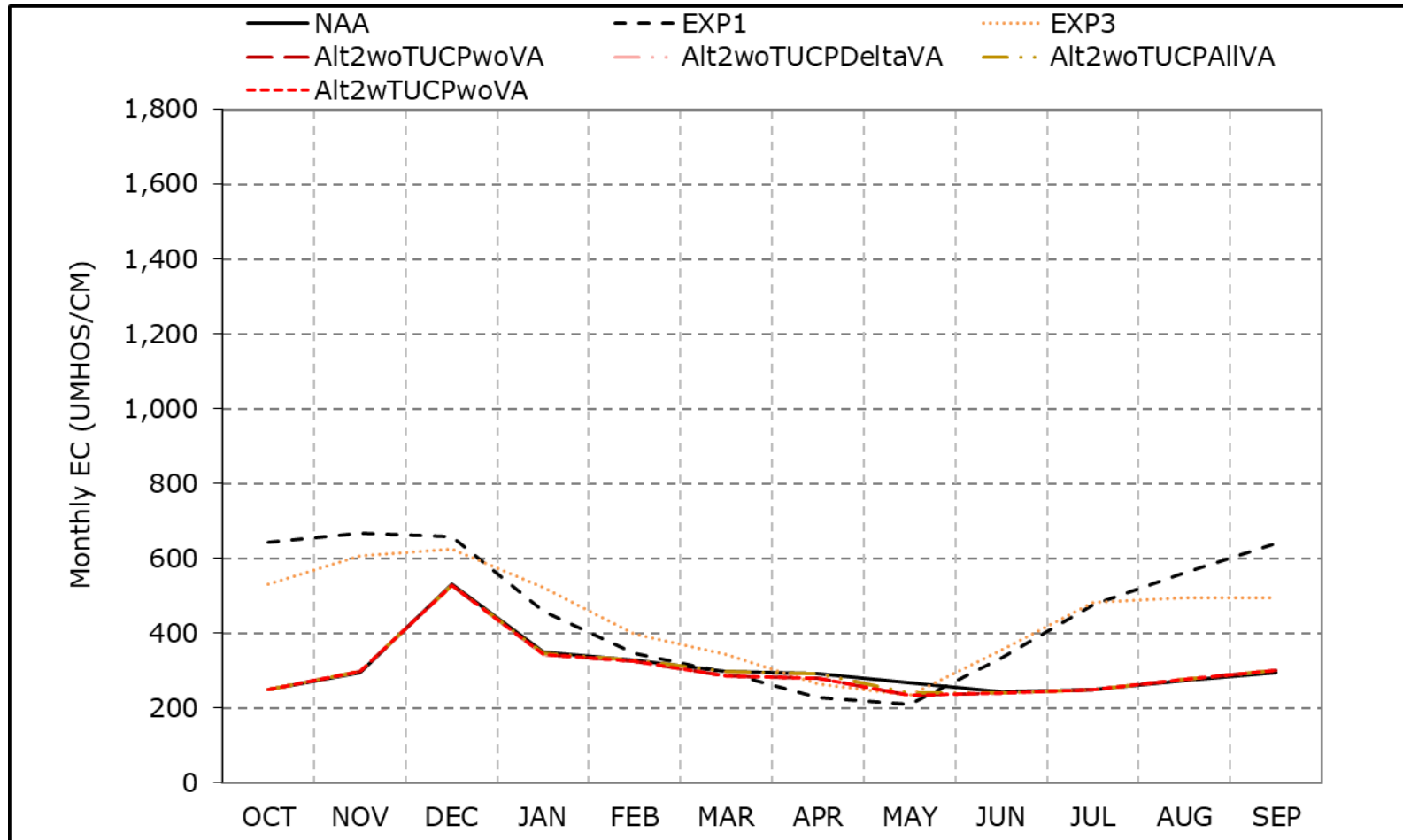


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-2. Old River at Highway 4, Wet Year Average EC**

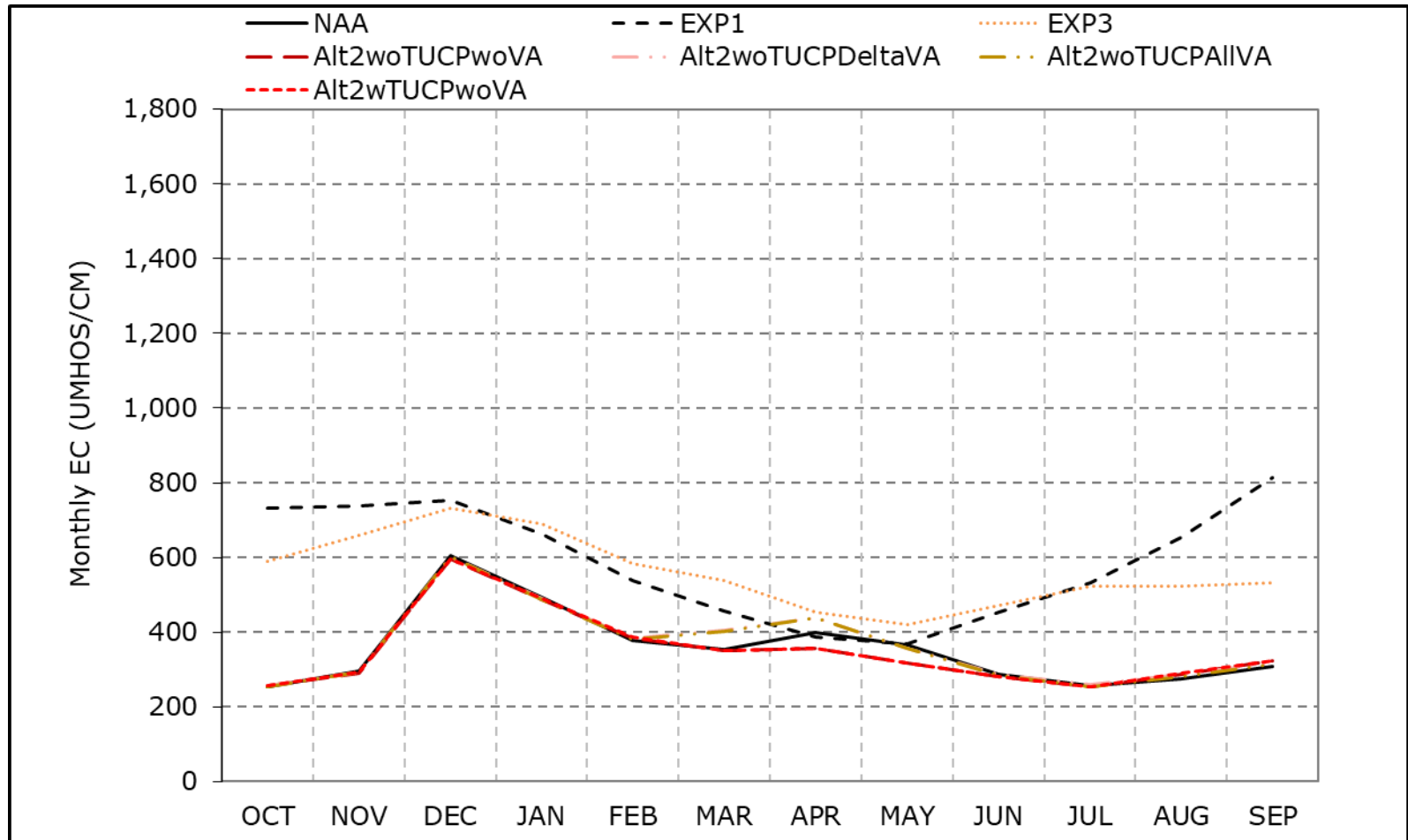


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-3. Old River at Highway 4, Above Normal Year Average EC**

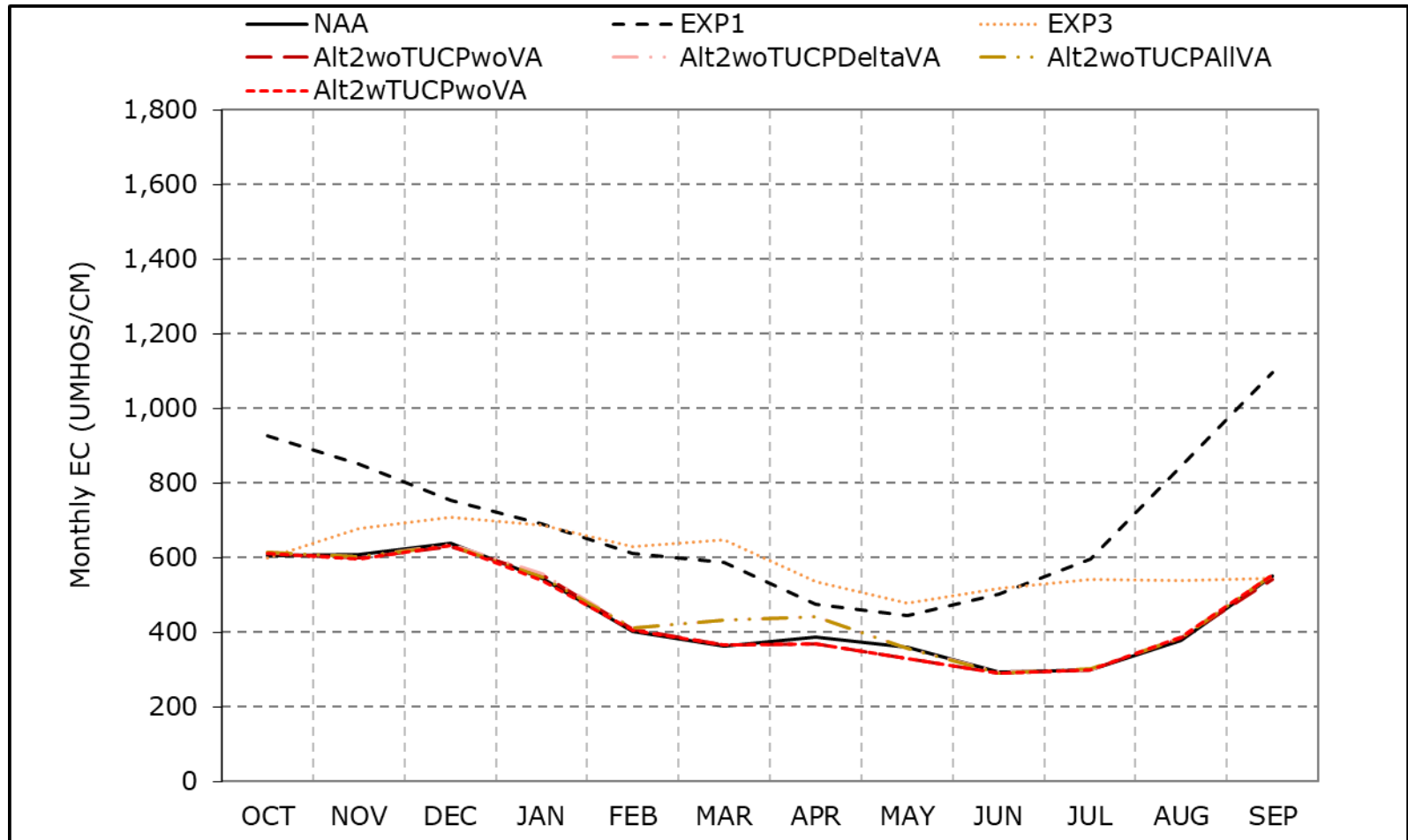


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-4. Old River at Highway 4, Below Normal Year Average EC**

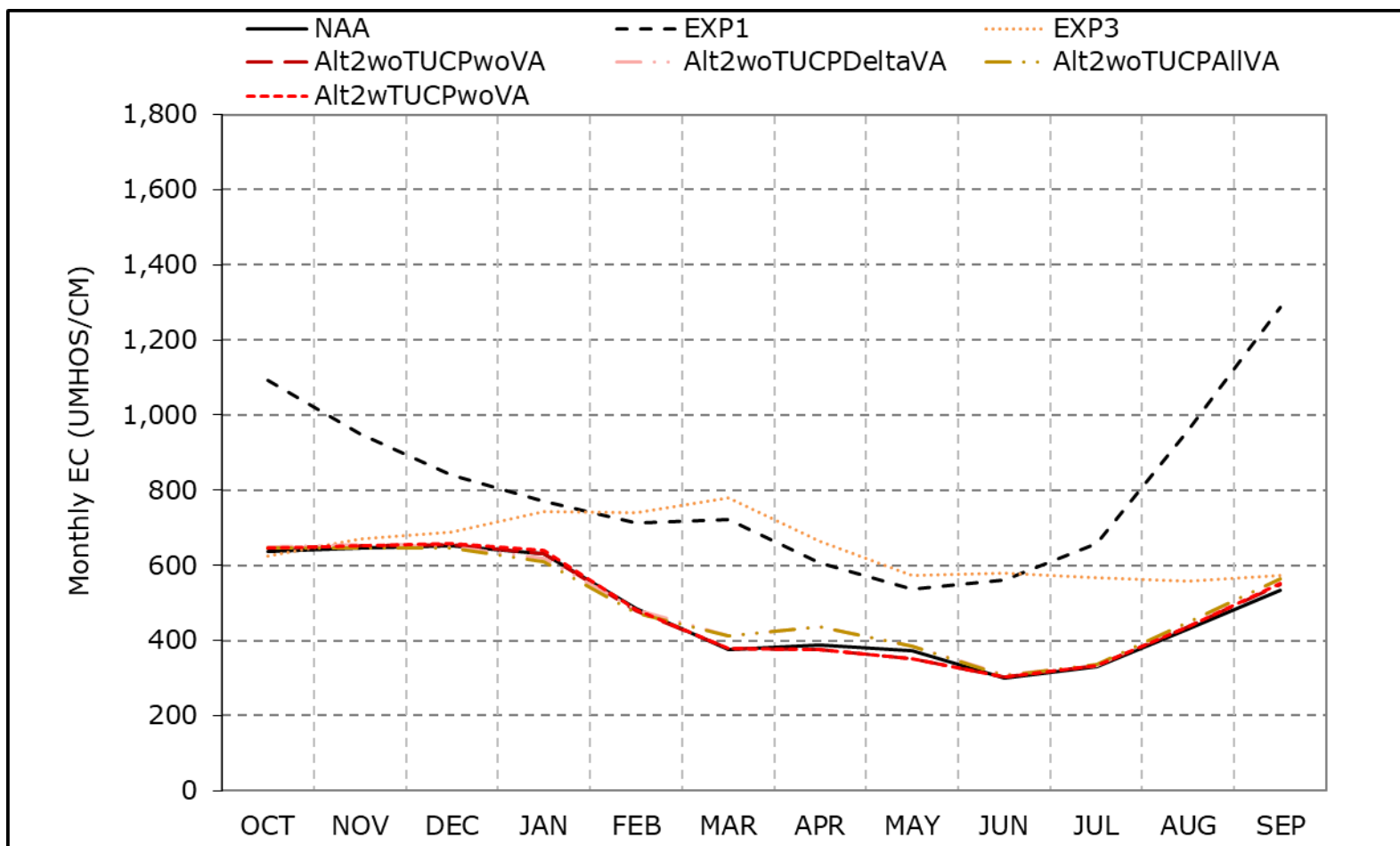


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-5. Old River at Highway 4, Dry Year Average EC**

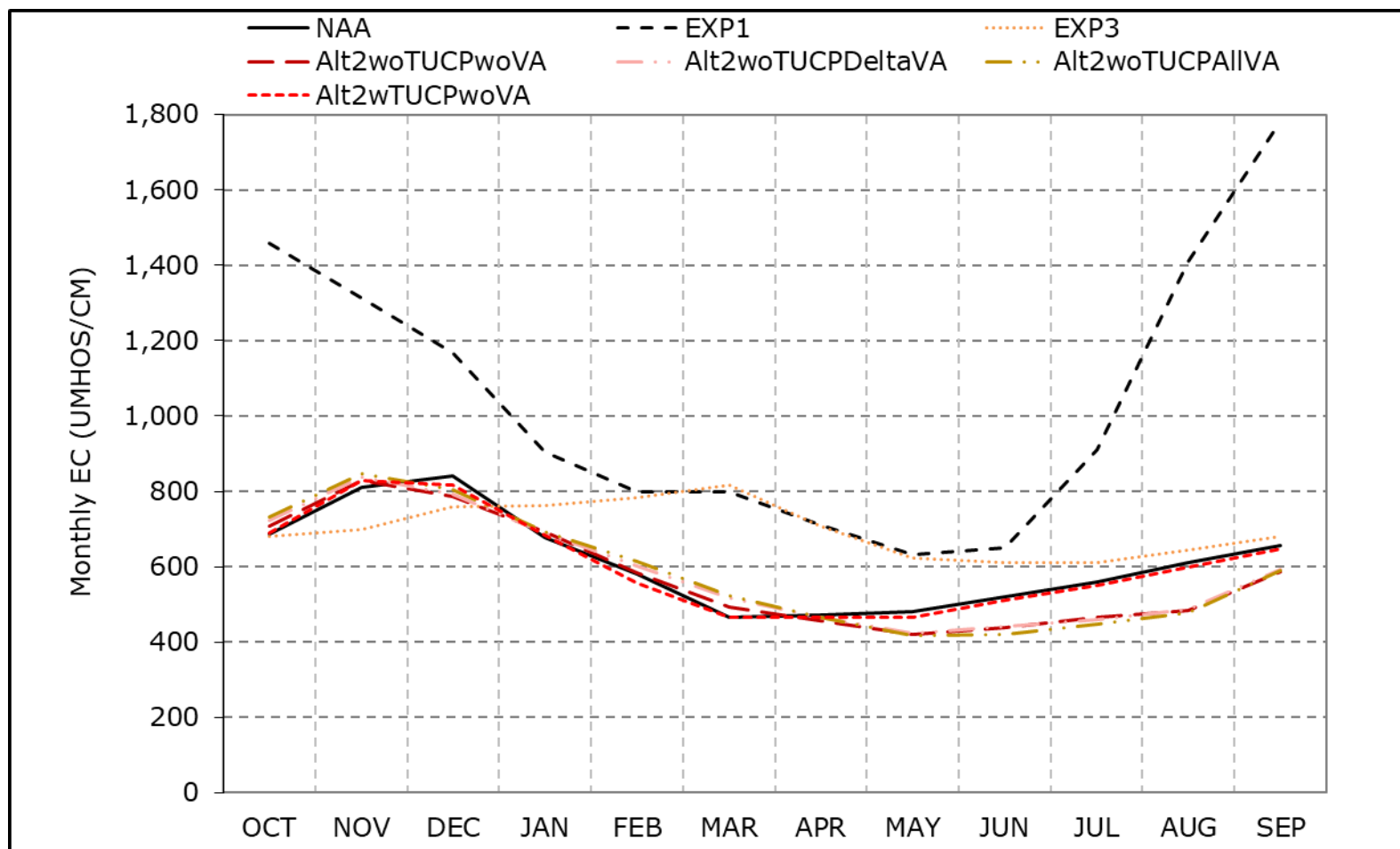


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-6. Old River at Highway 4, Critical Year Average EC**

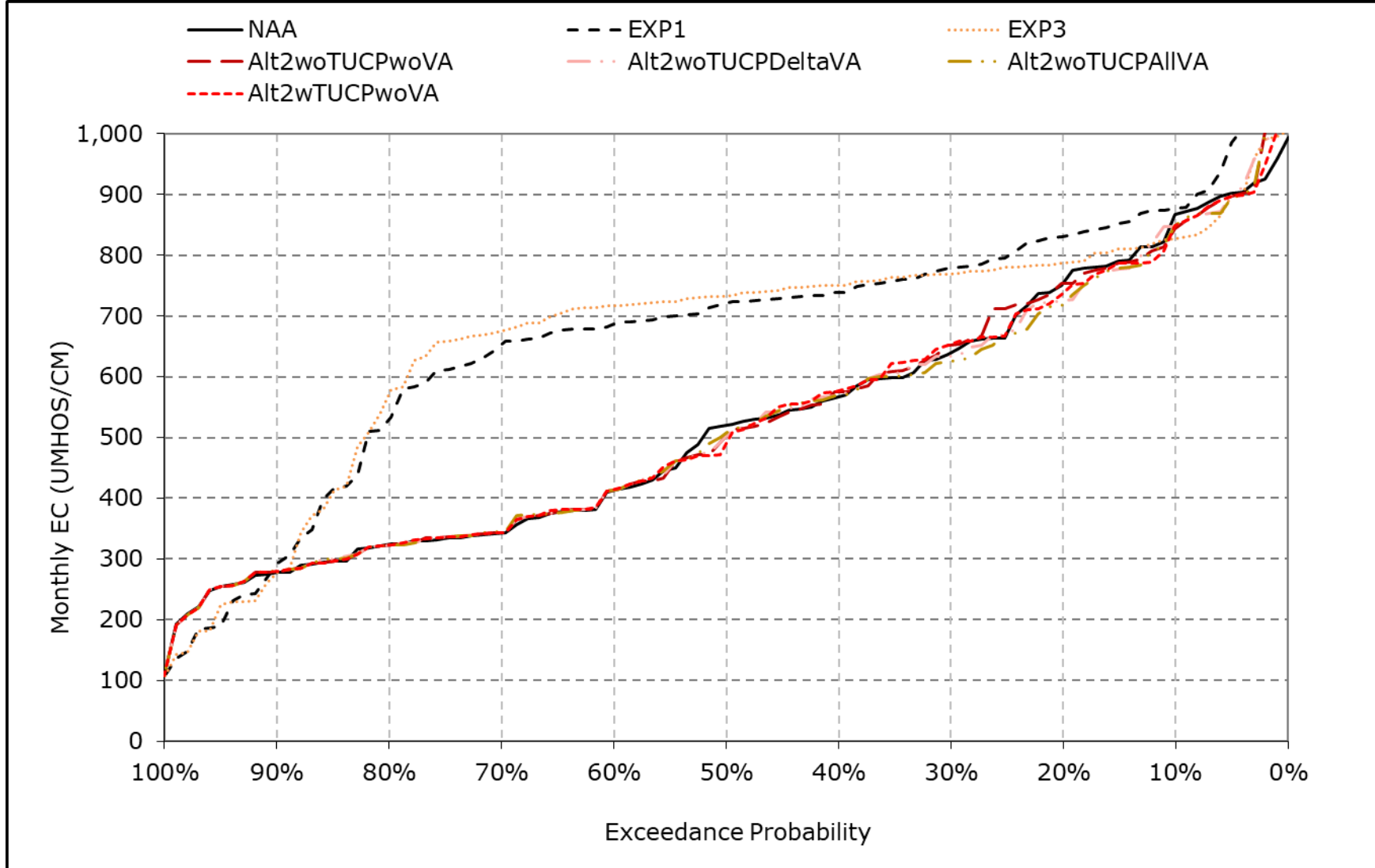


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

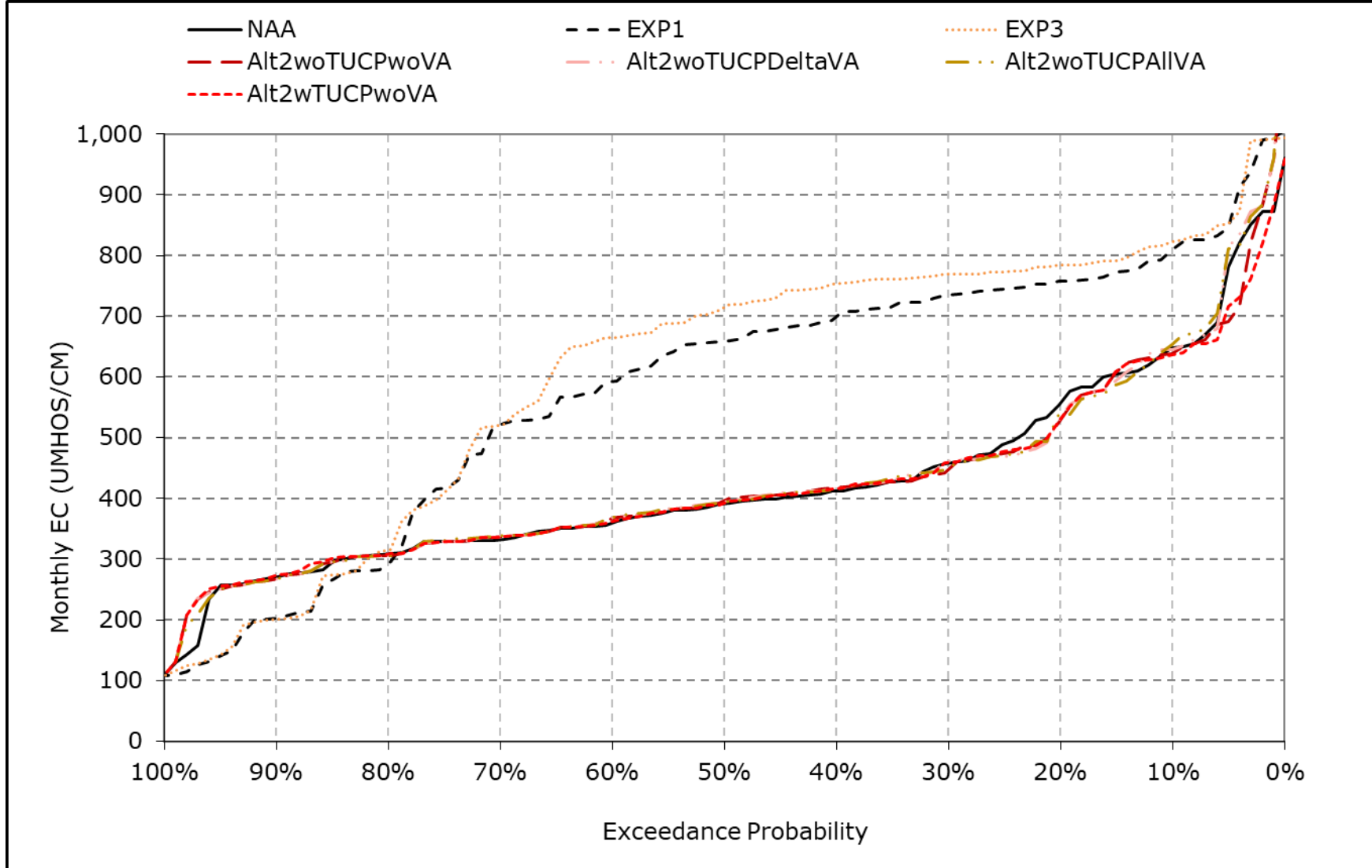
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-7. Old River at Highway 4, January EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

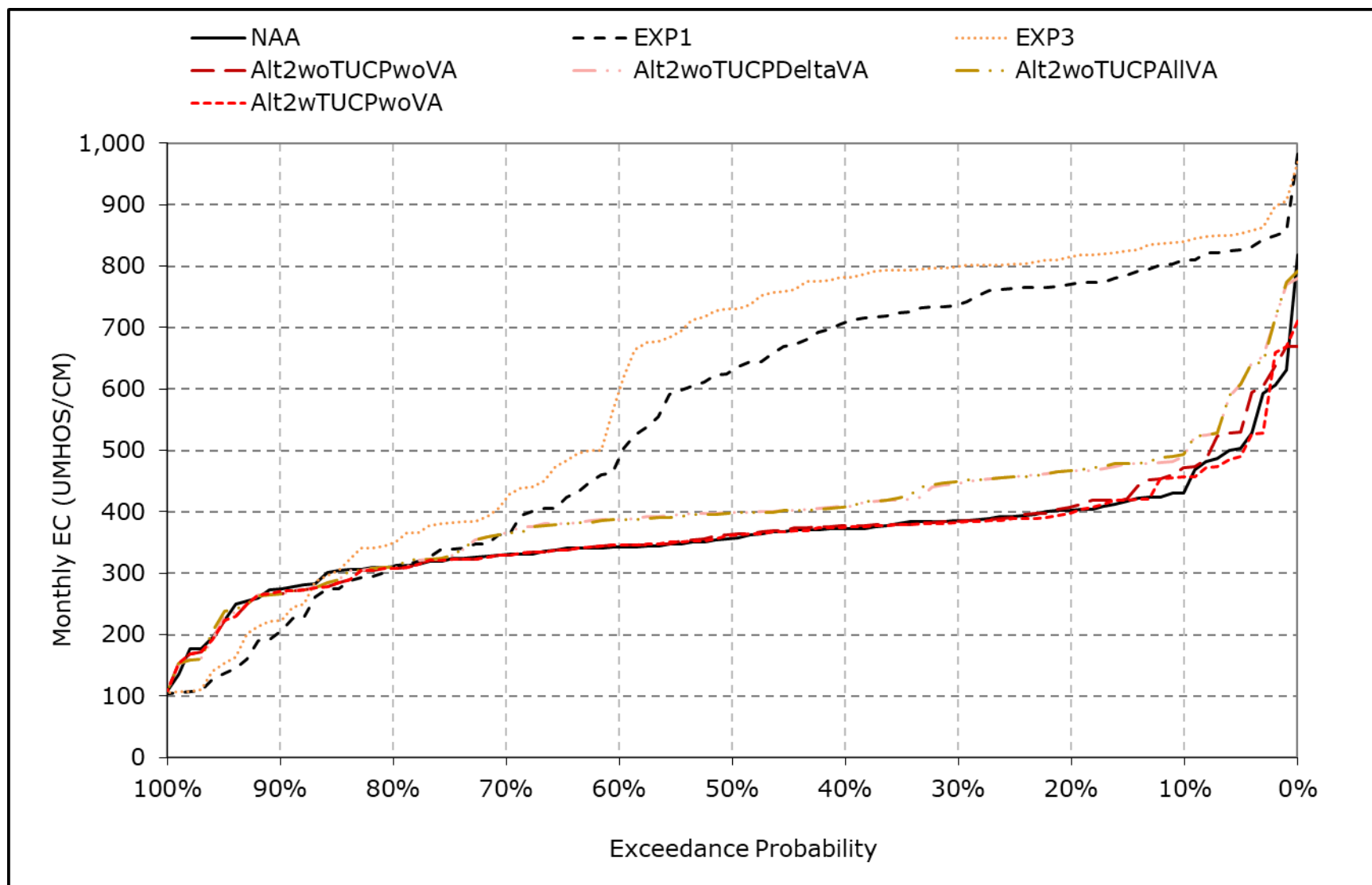
**Figure F.2.5-18-8. Old River at Highway 4, February EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

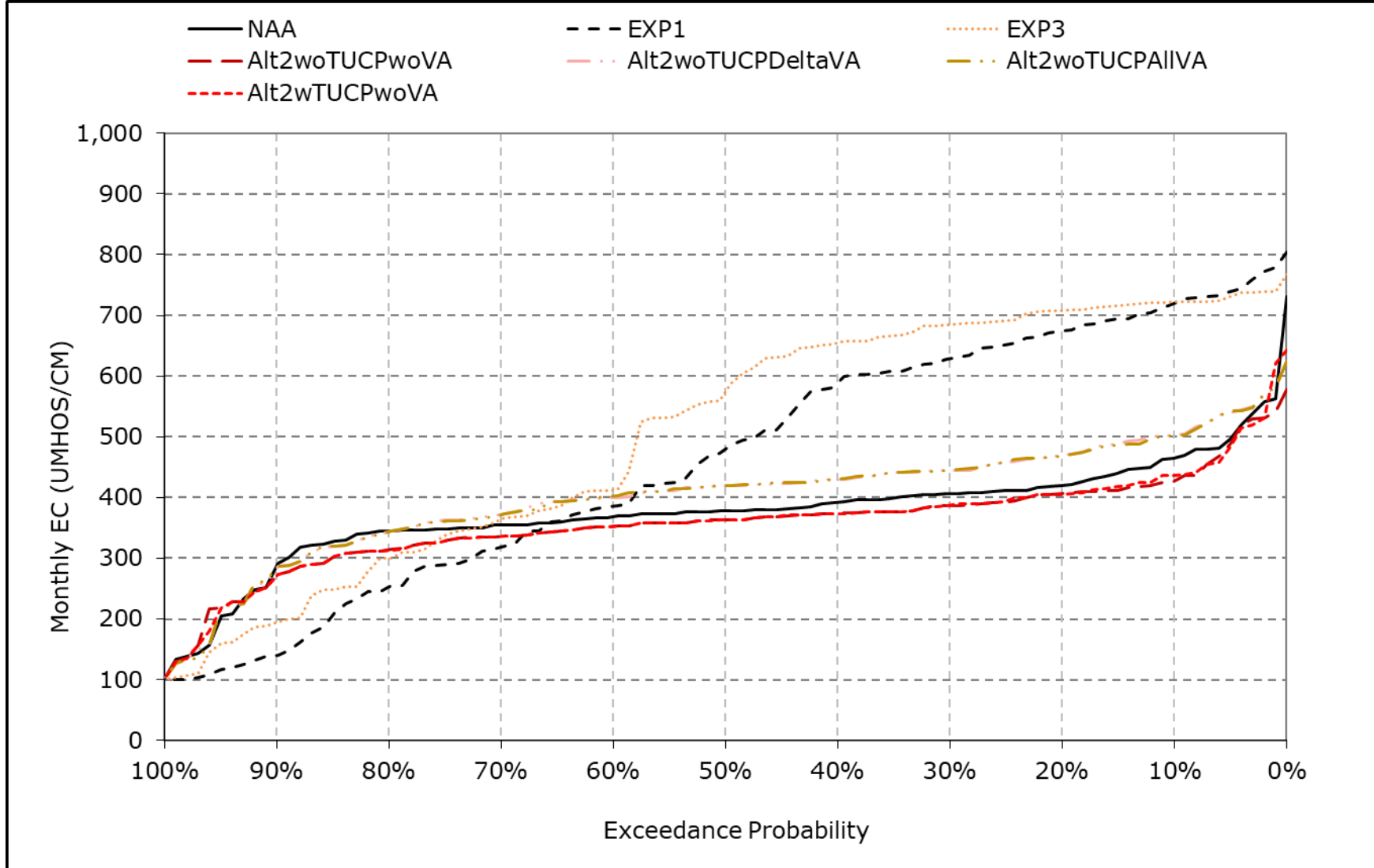


**Figure F.2.5-18-9. Old River at Highway 4, March EC**



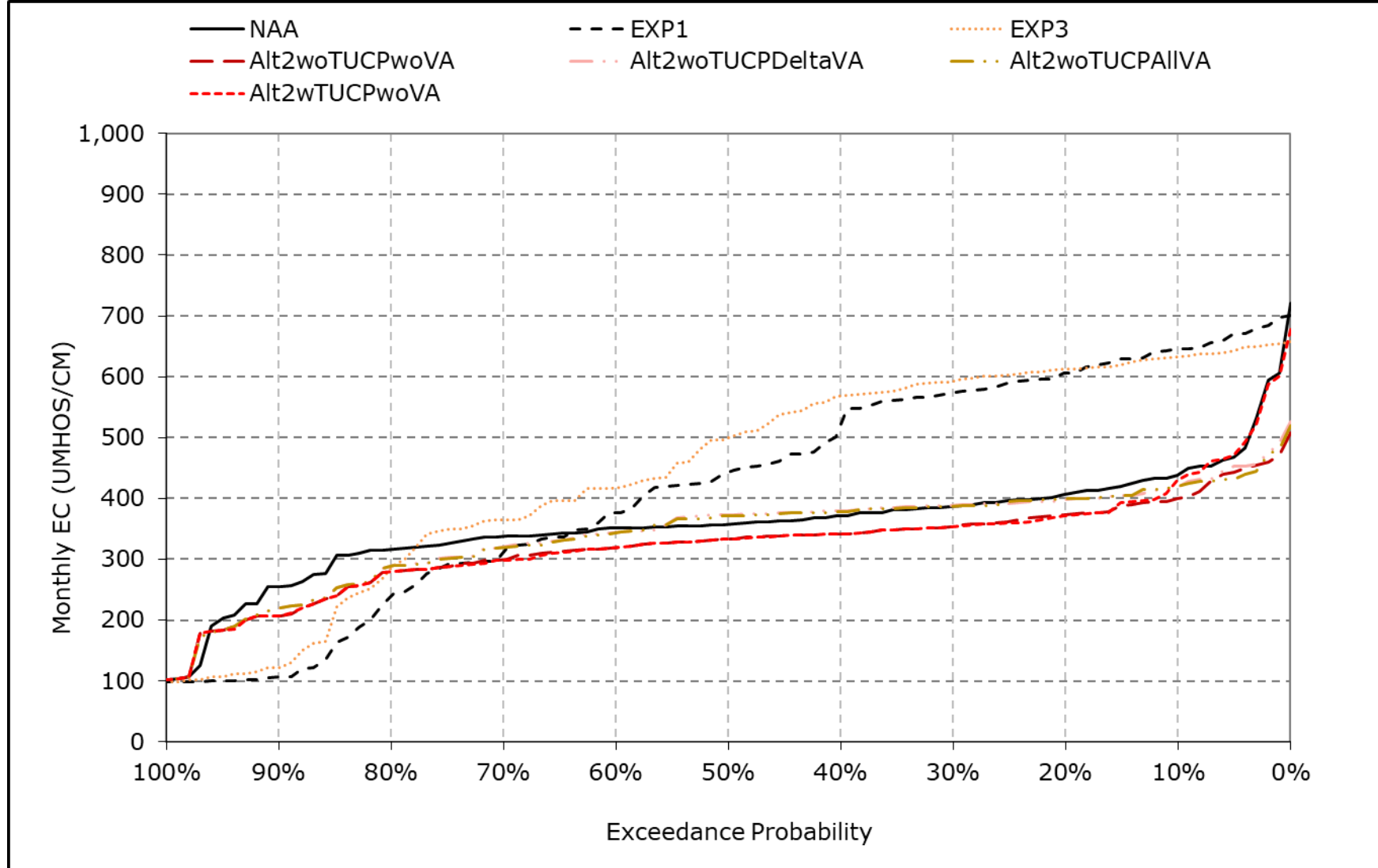
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-10. Old River at Highway 4, April EC**



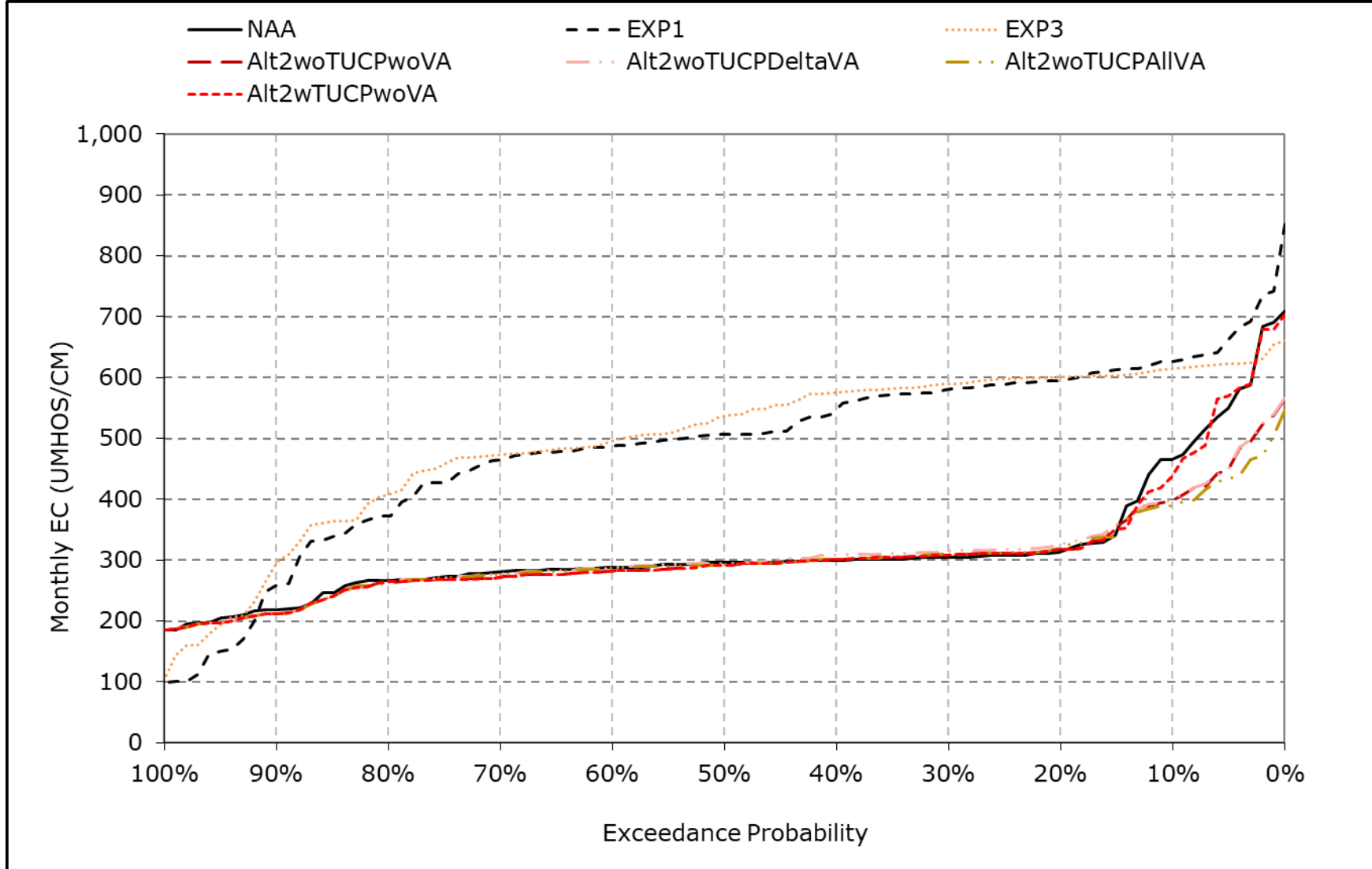
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-11. Old River at Highway 4, May EC**



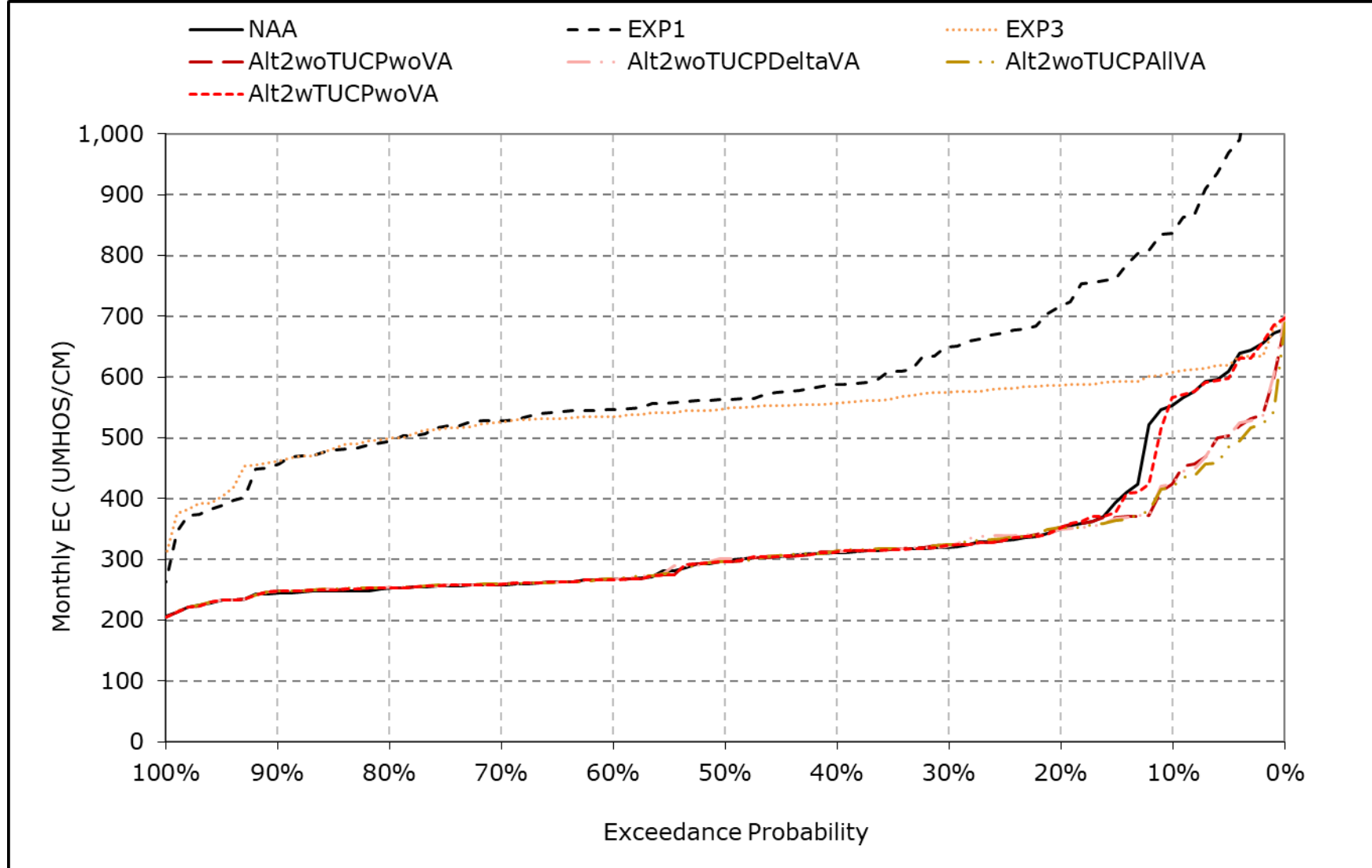
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-12. Old River at Highway 4, June EC**



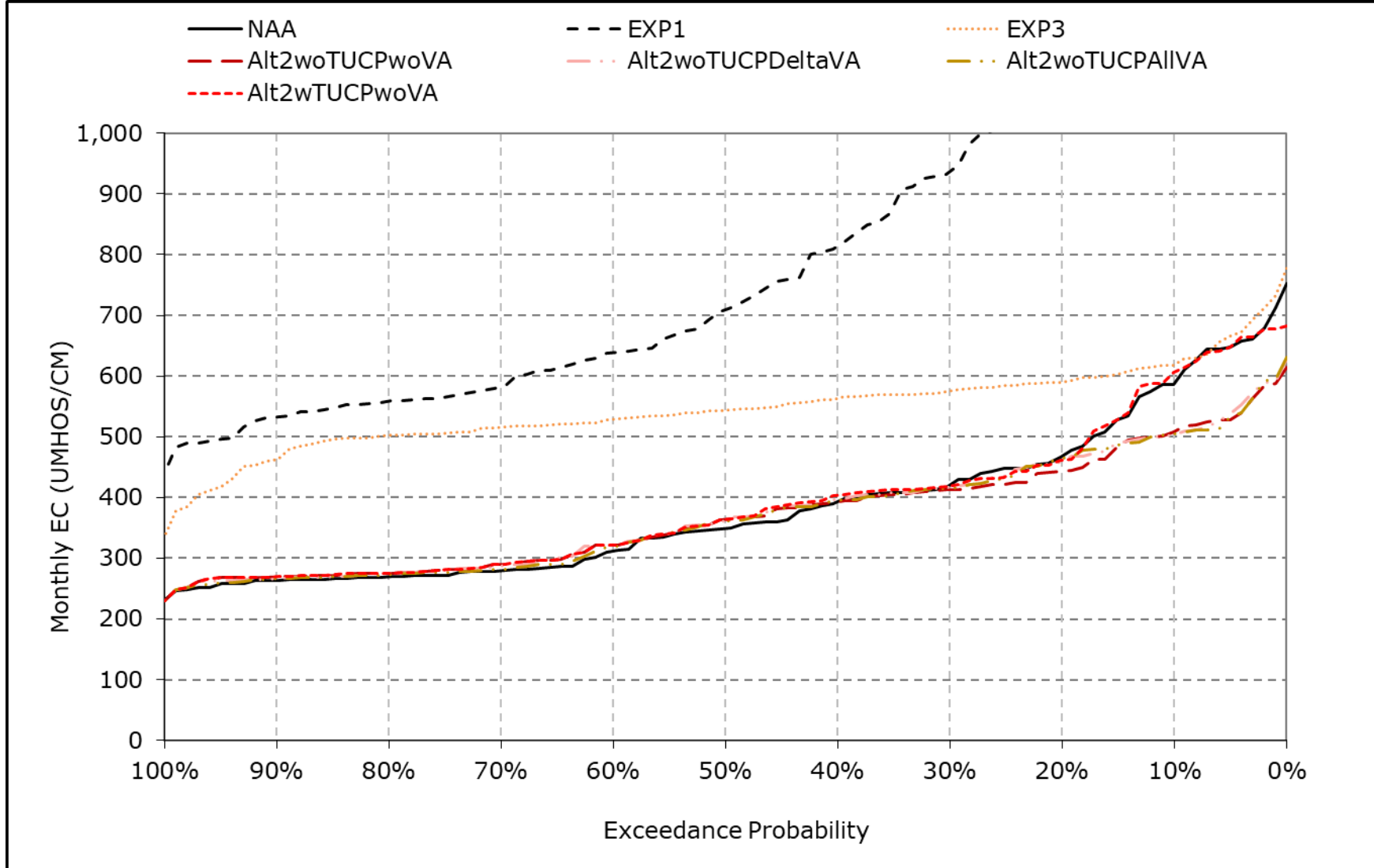
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-13. Old River at Highway 4, July EC**



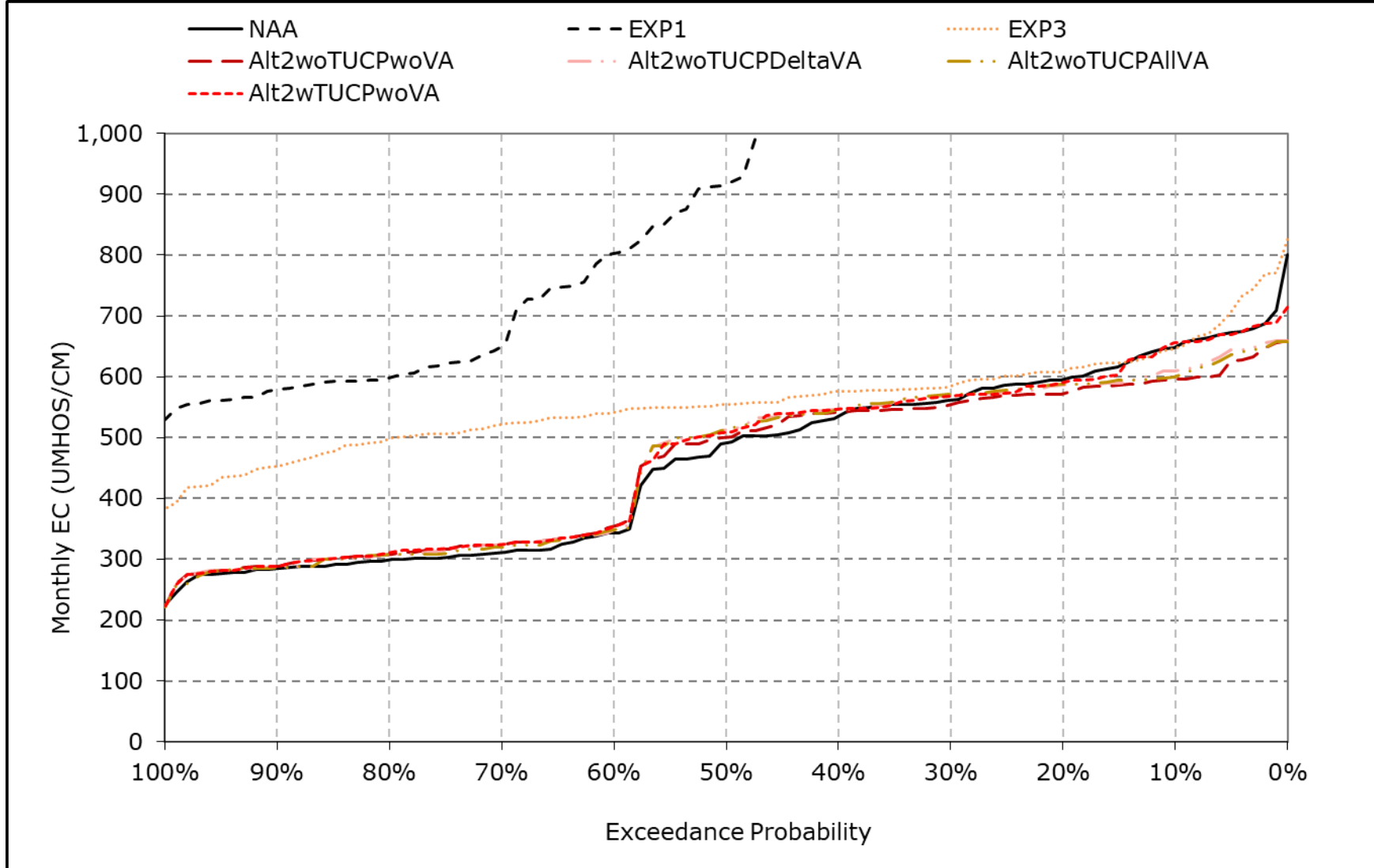
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-14. Old River at Highway 4, August EC**



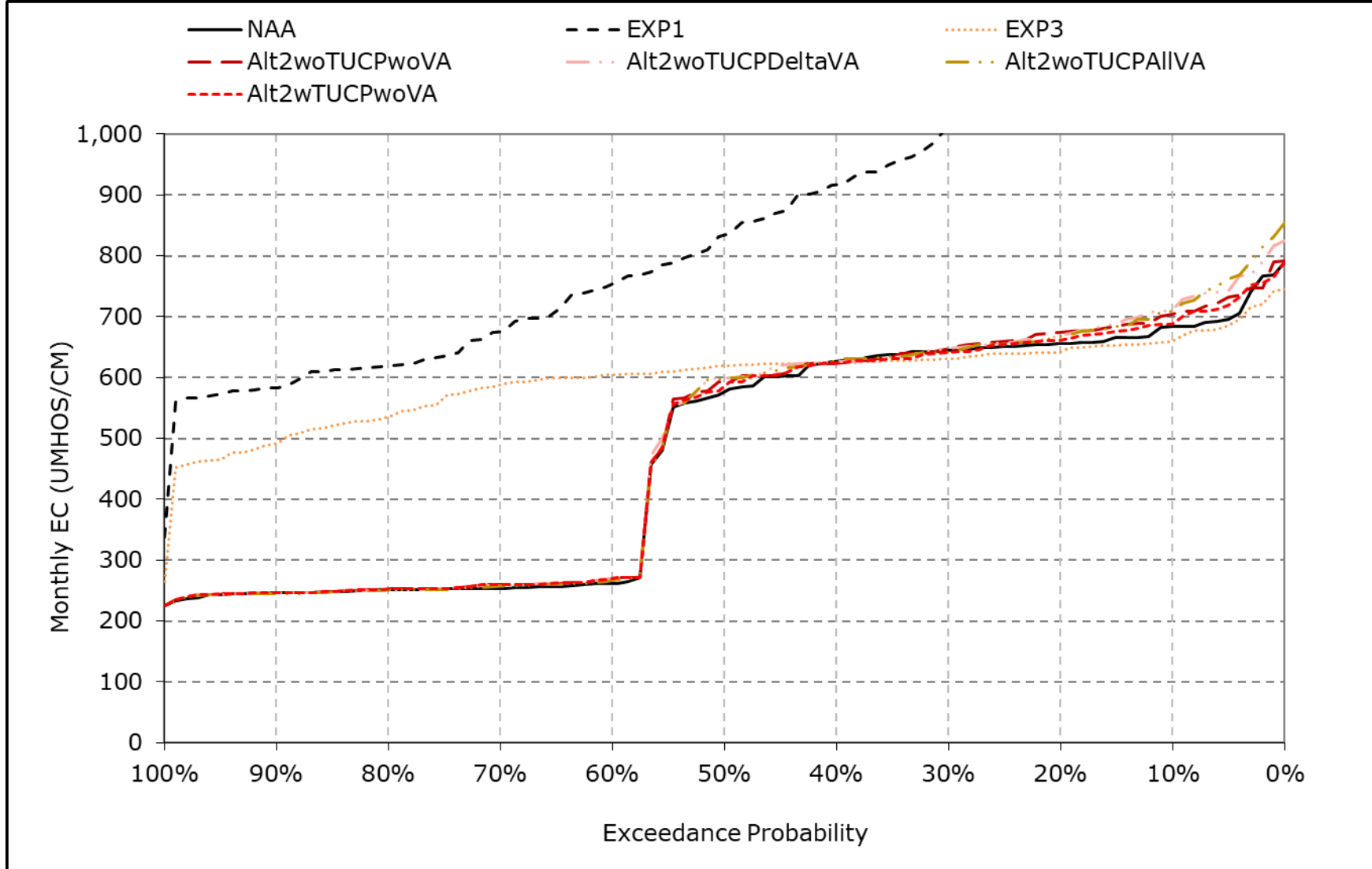
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-15. Old River at Highway 4, September EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

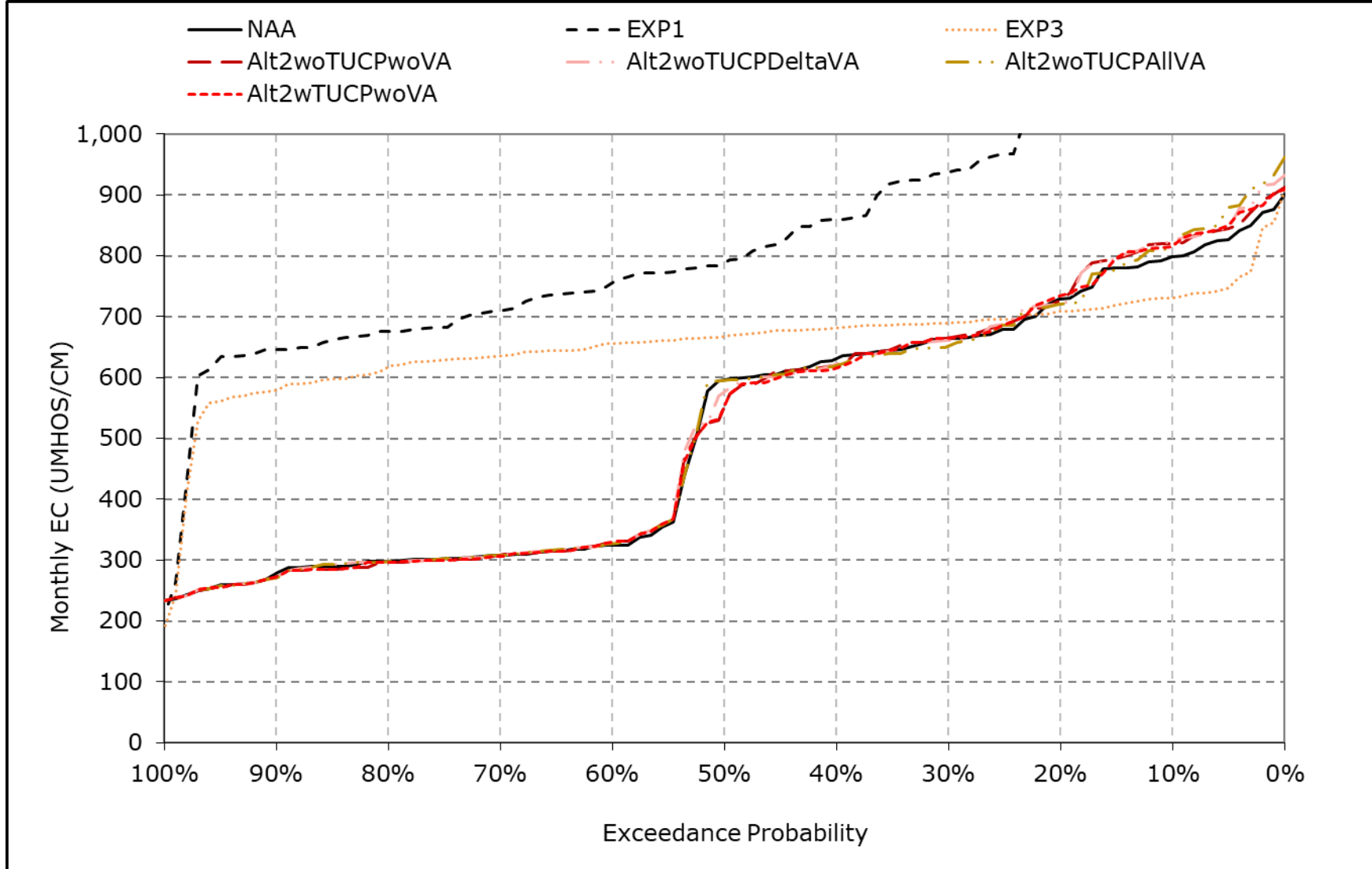
**Figure F.2.5-18-16. Old River at Highway 4, October EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

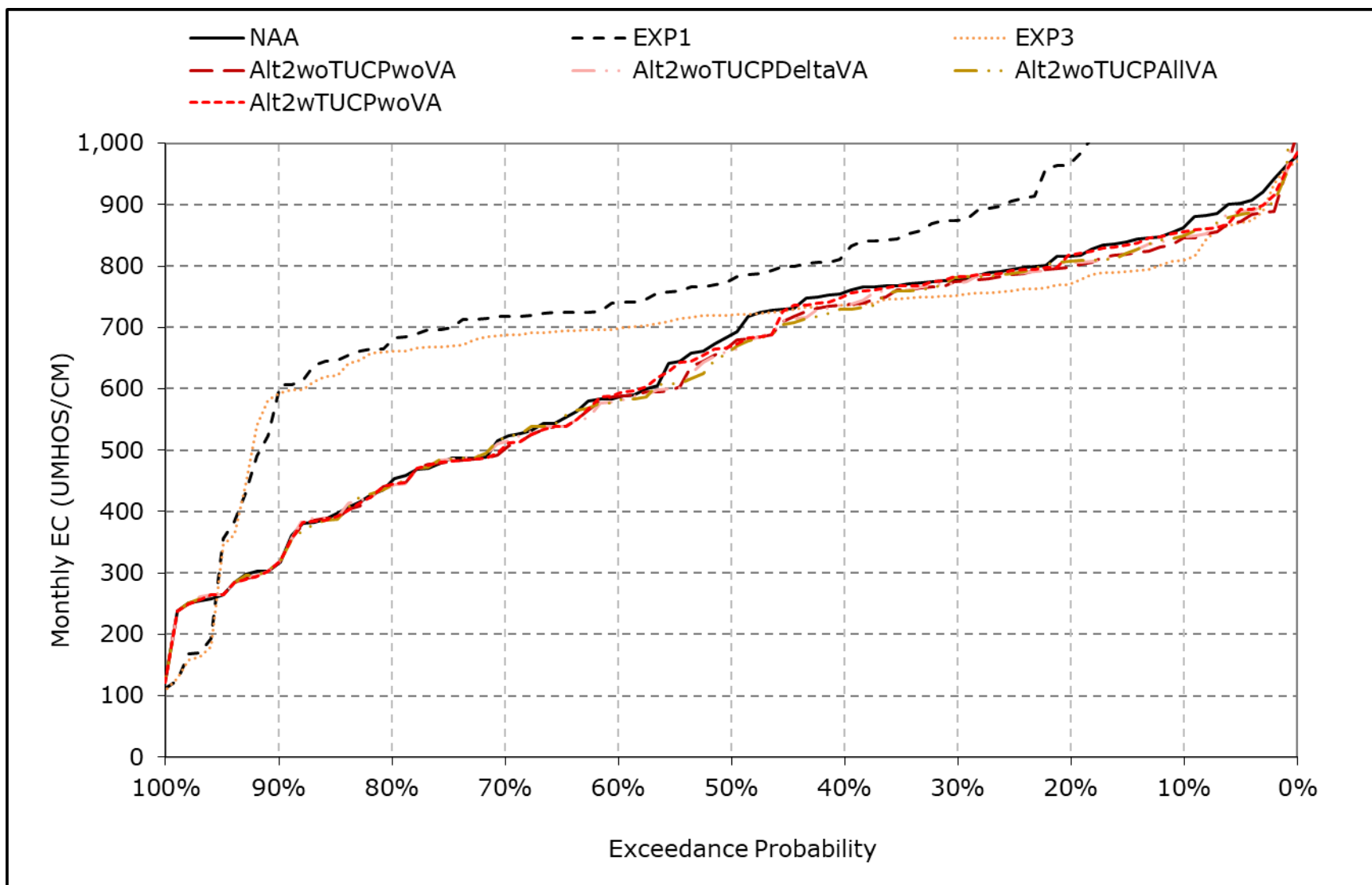


**Figure F.2.5-18-17. Old River at Highway 4, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-18-18. Old River at Highway 4, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.5-19-1a. Victoria Canal, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 530 | 636 | 664 | 686 | 648 | 548 | 537 | 471 | 437 | 474 | 464 | 493 |
| 20% Exceedance                              | 490 | 558 | 644 | 654 | 591 | 505 | 508 | 447 | 352 | 308 | 332 | 387 |
| 30% Exceedance                              | 459 | 491 | 588 | 620 | 544 | 478 | 476 | 431 | 340 | 291 | 321 | 377 |
| 40% Exceedance                              | 433 | 448 | 548 | 577 | 499 | 464 | 463 | 414 | 335 | 285 | 302 | 359 |
| 50% Exceedance                              | 403 | 398 | 517 | 515 | 482 | 453 | 439 | 403 | 330 | 277 | 286 | 346 |
| 60% Exceedance                              | 324 | 323 | 483 | 469 | 458 | 438 | 428 | 388 | 321 | 269 | 276 | 303 |
| 70% Exceedance                              | 308 | 299 | 451 | 424 | 407 | 418 | 408 | 366 | 316 | 265 | 266 | 285 |
| 80% Exceedance                              | 298 | 289 | 418 | 383 | 372 | 388 | 377 | 331 | 293 | 261 | 256 | 278 |
| 90% Exceedance                              | 286 | 281 | 330 | 325 | 322 | 314 | 264 | 206 | 245 | 255 | 241 | 264 |
| Full Simulation Period Average <sup>a</sup> | 394 | 419 | 513 | 515 | 485 | 444 | 428 | 379 | 334 | 306 | 315 | 349 |
| Wet Water Years (28%)                       | 296 | 298 | 415 | 413 | 386 | 355 | 313 | 264 | 267 | 273 | 264 | 278 |
| Above Normal Years (14%)                    | 302 | 297 | 474 | 527 | 478 | 453 | 458 | 400 | 326 | 265 | 246 | 276 |
| Below Normal Years (18%)                    | 427 | 438 | 524 | 524 | 485 | 467 | 461 | 402 | 326 | 271 | 281 | 358 |
| Dry Water Years (24%)                       | 460 | 495 | 549 | 559 | 532 | 469 | 463 | 418 | 329 | 283 | 325 | 370 |
| Critical Water Years (16%)                  | 526 | 627 | 663 | 606 | 593 | 530 | 512 | 480 | 474 | 475 | 490 | 498 |

**Table F.2.5-19-1b. Victoria Canal, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 521 | 658 | 657 | 699 | 659 | 558 | 523 | 445 | 396 | 373 | 401 | 435 |
| 20% Exceedance                              | 501 | 576 | 611 | 657 | 597 | 521 | 491 | 420 | 352 | 308 | 342 | 395 |
| 30% Exceedance                              | 479 | 498 | 587 | 613 | 539 | 481 | 471 | 412 | 336 | 298 | 329 | 382 |
| 40% Exceedance                              | 442 | 450 | 540 | 586 | 514 | 472 | 453 | 396 | 331 | 288 | 301 | 365 |
| 50% Exceedance                              | 414 | 400 | 506 | 516 | 481 | 458 | 435 | 384 | 326 | 278 | 287 | 347 |
| 60% Exceedance                              | 327 | 321 | 478 | 475 | 466 | 442 | 422 | 376 | 319 | 269 | 278 | 311 |
| 70% Exceedance                              | 307 | 300 | 443 | 429 | 400 | 417 | 382 | 341 | 311 | 264 | 271 | 291 |
| 80% Exceedance                              | 297 | 289 | 415 | 377 | 364 | 385 | 355 | 306 | 288 | 261 | 257 | 279 |
| 90% Exceedance                              | 286 | 281 | 327 | 327 | 322 | 307 | 259 | 186 | 240 | 255 | 247 | 265 |
| Full Simulation Period Average <sup>a</sup> | 398 | 426 | 506 | 518 | 490 | 449 | 416 | 356 | 322 | 297 | 305 | 343 |
| Wet Water Years (28%)                       | 296 | 298 | 412 | 408 | 384 | 346 | 304 | 246 | 263 | 274 | 266 | 280 |
| Above Normal Years (14%)                    | 305 | 296 | 468 | 526 | 489 | 453 | 429 | 368 | 321 | 263 | 249 | 281 |
| Below Normal Years (18%)                    | 436 | 439 | 520 | 528 | 491 | 470 | 449 | 379 | 321 | 271 | 287 | 356 |
| Dry Water Years (24%)                       | 465 | 500 | 551 | 566 | 539 | 476 | 455 | 402 | 329 | 290 | 333 | 379 |
| Critical Water Years (16%)                  | 527 | 659 | 630 | 620 | 602 | 560 | 503 | 442 | 417 | 408 | 404 | 436 |

**Table F.2.5-19-1c. Victoria Canal, Alt2woTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 10% Exceedance                              | -8  | 22  | -7  | 12  | 10  | 10  | -15 | -25 | -41 | -101 | -63 | -59 |
| 20% Exceedance                              | 12  | 18  | -33 | 4   | 6   | 16  | -18 | -27 | -1  | 0    | 9   | 8   |
| 30% Exceedance                              | 21  | 7   | -1  | -7  | -5  | 2   | -5  | -19 | -4  | 7    | 8   | 6   |
| 40% Exceedance                              | 9   | 2   | -7  | 9   | 15  | 8   | -11 | -18 | -4  | 3    | -1  | 7   |
| 50% Exceedance                              | 11  | 2   | -11 | 1   | -2  | 5   | -3  | -18 | -4  | 1    | 1   | 1   |
| 60% Exceedance                              | 3   | -2  | -5  | 6   | 7   | 4   | -7  | -12 | -2  | 0    | 2   | 8   |
| 70% Exceedance                              | -1  | 1   | -8  | 5   | -7  | -1  | -26 | -26 | -5  | 0    | 5   | 6   |
| 80% Exceedance                              | -1  | 1   | -3  | -6  | -8  | -4  | -22 | -25 | -5  | 0    | 1   | 1   |
| 90% Exceedance                              | 0   | 0   | -3  | 2   | 0   | -7  | -5  | -20 | -6  | 0    | 5   | 1   |
| Full Simulation Period Average <sup>a</sup> | 4   | 6   | -7  | 3   | 5   | 5   | -12 | -23 | -12 | -9   | -10 | -6  |
| Wet Water Years (28%)                       | 1   | 0   | -3  | -5  | -2  | -9  | -8  | -18 | -4  | 1    | 2   | 2   |
| Above Normal Years (14%)                    | 2   | -1  | -5  | -1  | 11  | 1   | -29 | -32 | -6  | -3   | 3   | 5   |
| Below Normal Years (18%)                    | 10  | 2   | -4  | 4   | 6   | 3   | -12 | -23 | -5  | 1    | 5   | -1  |
| Dry Water Years (24%)                       | 6   | 6   | 2   | 7   | 7   | 7   | -8  | -16 | -1  | 7    | 8   | 10  |
| Critical Water Years (16%)                  | 1   | 32  | -33 | 14  | 9   | 31  | -9  | -38 | -57 | -67  | -86 | -62 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-19-2a. Victoria Canal, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 530 | 636 | 664 | 686 | 648 | 548 | 537 | 471 | 437 | 474 | 464 | 493 |
| 20% Exceedance                              | 490 | 558 | 644 | 654 | 591 | 505 | 508 | 447 | 352 | 308 | 332 | 387 |
| 30% Exceedance                              | 459 | 491 | 588 | 620 | 544 | 478 | 476 | 431 | 340 | 291 | 321 | 377 |
| 40% Exceedance                              | 433 | 448 | 548 | 577 | 499 | 464 | 463 | 414 | 335 | 285 | 302 | 359 |
| 50% Exceedance                              | 403 | 398 | 517 | 515 | 482 | 453 | 439 | 403 | 330 | 277 | 286 | 346 |
| 60% Exceedance                              | 324 | 323 | 483 | 469 | 458 | 438 | 428 | 388 | 321 | 269 | 276 | 303 |
| 70% Exceedance                              | 308 | 299 | 451 | 424 | 407 | 418 | 408 | 366 | 316 | 265 | 266 | 285 |
| 80% Exceedance                              | 298 | 289 | 418 | 383 | 372 | 388 | 377 | 331 | 293 | 261 | 256 | 278 |
| 90% Exceedance                              | 286 | 281 | 330 | 325 | 322 | 314 | 264 | 206 | 245 | 255 | 241 | 264 |
| Full Simulation Period Average <sup>a</sup> | 394 | 419 | 513 | 515 | 485 | 444 | 428 | 379 | 334 | 306 | 315 | 349 |
| Wet Water Years (28%)                       | 296 | 298 | 415 | 413 | 386 | 355 | 313 | 264 | 267 | 273 | 264 | 278 |
| Above Normal Years (14%)                    | 302 | 297 | 474 | 527 | 478 | 453 | 458 | 400 | 326 | 265 | 246 | 276 |
| Below Normal Years (18%)                    | 427 | 438 | 524 | 524 | 485 | 467 | 461 | 402 | 326 | 271 | 281 | 358 |
| Dry Water Years (24%)                       | 460 | 495 | 549 | 559 | 532 | 469 | 463 | 418 | 329 | 283 | 325 | 370 |
| Critical Water Years (16%)                  | 526 | 627 | 663 | 606 | 593 | 530 | 512 | 480 | 474 | 475 | 490 | 498 |

**Table F.2.5-19-2b. Victoria Canal, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 522 | 658 | 667 | 675 | 642 | 623 | 574 | 466 | 396 | 364 | 392 | 433 |
| 20% Exceedance                              | 501 | 576 | 621 | 654 | 594 | 559 | 543 | 444 | 360 | 308 | 339 | 405 |
| 30% Exceedance                              | 483 | 500 | 586 | 602 | 541 | 534 | 515 | 433 | 342 | 297 | 322 | 380 |
| 40% Exceedance                              | 434 | 449 | 540 | 574 | 514 | 516 | 502 | 426 | 338 | 289 | 298 | 369 |
| 50% Exceedance                              | 408 | 406 | 512 | 523 | 483 | 488 | 475 | 419 | 332 | 280 | 287 | 350 |
| 60% Exceedance                              | 325 | 321 | 481 | 475 | 467 | 475 | 448 | 387 | 326 | 270 | 280 | 310 |
| 70% Exceedance                              | 306 | 300 | 443 | 427 | 402 | 451 | 411 | 348 | 315 | 266 | 272 | 291 |
| 80% Exceedance                              | 296 | 288 | 416 | 376 | 364 | 397 | 359 | 320 | 288 | 262 | 257 | 277 |
| 90% Exceedance                              | 286 | 280 | 331 | 327 | 322 | 307 | 278 | 189 | 240 | 256 | 245 | 267 |
| Full Simulation Period Average <sup>a</sup> | 399 | 426 | 508 | 517 | 492 | 481 | 448 | 373 | 326 | 296 | 303 | 343 |
| Wet Water Years (28%)                       | 296 | 297 | 414 | 409 | 384 | 354 | 311 | 251 | 263 | 274 | 265 | 279 |
| Above Normal Years (14%)                    | 303 | 295 | 473 | 526 | 489 | 498 | 472 | 396 | 326 | 267 | 251 | 278 |
| Below Normal Years (18%)                    | 434 | 437 | 520 | 531 | 494 | 534 | 506 | 403 | 325 | 273 | 285 | 359 |
| Dry Water Years (24%)                       | 467 | 501 | 549 | 558 | 540 | 513 | 507 | 431 | 338 | 288 | 329 | 382 |
| Critical Water Years (16%)                  | 534 | 663 | 638 | 620 | 612 | 578 | 514 | 447 | 418 | 400 | 396 | 435 |

**Table F.2.5-19-2c. Victoria Canal, Alt2woTUCPDeltaVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 10% Exceedance                              | -7  | 22  | 3   | -11 | -6  | 75  | 36  | -5  | -41 | -110 | -73 | -61 |
| 20% Exceedance                              | 11  | 18  | -23 | 0   | 3   | 54  | 34  | -3  | 8   | 0    | 6   | 18  |
| 30% Exceedance                              | 25  | 9   | -2  | -18 | -3  | 55  | 39  | 2   | 2   | 6    | 1   | 3   |
| 40% Exceedance                              | 1   | 1   | -7  | -3  | 15  | 52  | 38  | 12  | 3   | 5    | -4  | 10  |
| 50% Exceedance                              | 4   | 8   | -6  | 9   | 1   | 35  | 37  | 16  | 3   | 3    | 1   | 3   |
| 60% Exceedance                              | 1   | -2  | -2  | 6   | 9   | 36  | 20  | -1  | 5   | 1    | 4   | 7   |
| 70% Exceedance                              | -2  | 0   | -8  | 3   | -5  | 33  | 2   | -18 | -1  | 1    | 6   | 5   |
| 80% Exceedance                              | -2  | 0   | -2  | -7  | -8  | 9   | -19 | -11 | -5  | 1    | 1   | -1  |
| 90% Exceedance                              | 0   | -1  | 1   | 2   | 0   | -7  | 14  | -17 | -6  | 2    | 4   | 3   |
| Full Simulation Period Average <sup>a</sup> | 4   | 6   | -5  | 2   | 7   | 37  | 21  | -6  | -8  | -10  | -12 | -6  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -4  | -3  | -1  | -1  | -13 | -4  | 1    | 2   | 1   |
| Above Normal Years (14%)                    | 1   | -2  | -1  | -1  | 11  | 45  | 14  | -4  | 0   | 2    | 5   | 2   |
| Below Normal Years (18%)                    | 8   | -1  | -5  | 7   | 9   | 67  | 45  | 0   | -1  | 2    | 4   | 1   |
| Dry Water Years (24%)                       | 7   | 6   | 0   | -1  | 8   | 44  | 44  | 13  | 9   | 5    | 4   | 12  |
| Critical Water Years (16%)                  | 8   | 35  | -25 | 15  | 19  | 49  | 2   | -33 | -56 | -74  | -94 | -63 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-19-3a. Victoria Canal, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 530 | 636 | 664 | 686 | 648 | 548 | 537 | 471 | 437 | 474 | 464 | 493 |
| 20% Exceedance                              | 490 | 558 | 644 | 654 | 591 | 505 | 508 | 447 | 352 | 308 | 332 | 387 |
| 30% Exceedance                              | 459 | 491 | 588 | 620 | 544 | 478 | 476 | 431 | 340 | 291 | 321 | 377 |
| 40% Exceedance                              | 433 | 448 | 548 | 577 | 499 | 464 | 463 | 414 | 335 | 285 | 302 | 359 |
| 50% Exceedance                              | 403 | 398 | 517 | 515 | 482 | 453 | 439 | 403 | 330 | 277 | 286 | 346 |
| 60% Exceedance                              | 324 | 323 | 483 | 469 | 458 | 438 | 428 | 388 | 321 | 269 | 276 | 303 |
| 70% Exceedance                              | 308 | 299 | 451 | 424 | 407 | 418 | 408 | 366 | 316 | 265 | 266 | 285 |
| 80% Exceedance                              | 298 | 289 | 418 | 383 | 372 | 388 | 377 | 331 | 293 | 261 | 256 | 278 |
| 90% Exceedance                              | 286 | 281 | 330 | 325 | 322 | 314 | 264 | 206 | 245 | 255 | 241 | 264 |
| Full Simulation Period Average <sup>a</sup> | 394 | 419 | 513 | 515 | 485 | 444 | 428 | 379 | 334 | 306 | 315 | 349 |
| Wet Water Years (28%)                       | 296 | 298 | 415 | 413 | 386 | 355 | 313 | 264 | 267 | 273 | 264 | 278 |
| Above Normal Years (14%)                    | 302 | 297 | 474 | 527 | 478 | 453 | 458 | 400 | 326 | 265 | 246 | 276 |
| Below Normal Years (18%)                    | 427 | 438 | 524 | 524 | 485 | 467 | 461 | 402 | 326 | 271 | 281 | 358 |
| Dry Water Years (24%)                       | 460 | 495 | 549 | 559 | 532 | 469 | 463 | 418 | 329 | 283 | 325 | 370 |
| Critical Water Years (16%)                  | 526 | 627 | 663 | 606 | 593 | 530 | 512 | 480 | 474 | 475 | 490 | 498 |

**Table F.2.5-19-3b. Victoria Canal, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 522 | 658 | 669 | 678 | 644 | 618 | 573 | 459 | 391 | 370 | 393 | 431 |
| 20% Exceedance                              | 500 | 545 | 604 | 652 | 578 | 559 | 543 | 444 | 352 | 308 | 337 | 403 |
| 30% Exceedance                              | 467 | 493 | 580 | 609 | 546 | 534 | 515 | 434 | 339 | 298 | 326 | 379 |
| 40% Exceedance                              | 432 | 444 | 539 | 565 | 514 | 514 | 503 | 426 | 336 | 289 | 300 | 370 |
| 50% Exceedance                              | 407 | 405 | 520 | 516 | 483 | 487 | 475 | 417 | 331 | 283 | 288 | 351 |
| 60% Exceedance                              | 325 | 319 | 483 | 481 | 466 | 475 | 447 | 386 | 325 | 273 | 281 | 310 |
| 70% Exceedance                              | 306 | 299 | 445 | 432 | 402 | 451 | 410 | 346 | 313 | 267 | 271 | 290 |
| 80% Exceedance                              | 296 | 287 | 417 | 375 | 364 | 397 | 359 | 320 | 289 | 262 | 257 | 277 |
| 90% Exceedance                              | 285 | 279 | 329 | 327 | 323 | 307 | 278 | 189 | 240 | 257 | 245 | 264 |
| Full Simulation Period Average <sup>a</sup> | 397 | 423 | 510 | 517 | 492 | 481 | 448 | 372 | 323 | 296 | 303 | 342 |
| Wet Water Years (28%)                       | 295 | 296 | 414 | 412 | 384 | 356 | 311 | 251 | 263 | 275 | 265 | 279 |
| Above Normal Years (14%)                    | 302 | 294 | 473 | 526 | 489 | 496 | 472 | 396 | 325 | 266 | 248 | 277 |
| Below Normal Years (18%)                    | 429 | 434 | 519 | 531 | 494 | 534 | 506 | 401 | 323 | 275 | 285 | 358 |
| Dry Water Years (24%)                       | 464 | 491 | 546 | 554 | 533 | 512 | 507 | 431 | 336 | 290 | 332 | 383 |
| Critical Water Years (16%)                  | 540 | 669 | 656 | 622 | 619 | 582 | 514 | 443 | 408 | 391 | 391 | 433 |

**Table F.2.5-19-3c. Victoria Canal, Alt2woTUCPAIIVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul  | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| 10% Exceedance                              | -8  | 22  | 5   | -8  | -4  | 71  | 36  | -12 | -46 | -103 | -71 | -63 |
| 20% Exceedance                              | 10  | -13 | -40 | -1  | -13 | 54  | 34  | -3  | 0   | 1    | 4   | 17  |
| 30% Exceedance                              | 8   | 2   | -8  | -11 | 2   | 55  | 38  | 3   | -1  | 7    | 5   | 3   |
| 40% Exceedance                              | 0   | -4  | -9  | -12 | 15  | 50  | 40  | 11  | 1   | 4    | -2  | 11  |
| 50% Exceedance                              | 4   | 6   | 3   | 1   | 0   | 34  | 36  | 14  | 1   | 6    | 1   | 5   |
| 60% Exceedance                              | 2   | -4  | 0   | 12  | 7   | 36  | 19  | -2  | 4   | 4    | 4   | 6   |
| 70% Exceedance                              | -1  | -1  | -6  | 8   | -5  | 32  | 2   | -20 | -2  | 2    | 5   | 5   |
| 80% Exceedance                              | -2  | -1  | -1  | -8  | -8  | 9   | -19 | -11 | -4  | 1    | 1   | 0   |
| 90% Exceedance                              | -1  | -1  | -1  | 2   | 0   | -7  | 14  | -17 | -6  | 3    | 4   | 0   |
| Full Simulation Period Average <sup>a</sup> | 3   | 4   | -3  | 2   | 7   | 37  | 20  | -7  | -11 | -10  | -13 | -7  |
| Wet Water Years (28%)                       | -1  | -1  | 0   | -1  | -2  | 1   | -1  | -13 | -4  | 2    | 2   | 2   |
| Above Normal Years (14%)                    | 0   | -2  | 0   | -1  | 11  | 43  | 14  | -4  | -1  | 1    | 2   | 1   |
| Below Normal Years (18%)                    | 2   | -4  | -5  | 8   | 9   | 67  | 44  | -2  | -3  | 4    | 4   | 0   |
| Dry Water Years (24%)                       | 4   | -4  | -3  | -5  | 1   | 43  | 44  | 13  | 7   | 7    | 7   | 13  |
| Critical Water Years (16%)                  | 14  | 42  | -6  | 16  | 26  | 52  | 2   | -37 | -66 | -84  | -99 | -65 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-19-4a. Victoria Canal, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 530 | 636 | 664 | 686 | 648 | 548 | 537 | 471 | 437 | 474 | 464 | 493 |
| 20% Exceedance                              | 490 | 558 | 644 | 654 | 591 | 505 | 508 | 447 | 352 | 308 | 332 | 387 |
| 30% Exceedance                              | 459 | 491 | 588 | 620 | 544 | 478 | 476 | 431 | 340 | 291 | 321 | 377 |
| 40% Exceedance                              | 433 | 448 | 548 | 577 | 499 | 464 | 463 | 414 | 335 | 285 | 302 | 359 |
| 50% Exceedance                              | 403 | 398 | 517 | 515 | 482 | 453 | 439 | 403 | 330 | 277 | 286 | 346 |
| 60% Exceedance                              | 324 | 323 | 483 | 469 | 458 | 438 | 428 | 388 | 321 | 269 | 276 | 303 |
| 70% Exceedance                              | 308 | 299 | 451 | 424 | 407 | 418 | 408 | 366 | 316 | 265 | 266 | 285 |
| 80% Exceedance                              | 298 | 289 | 418 | 383 | 372 | 388 | 377 | 331 | 293 | 261 | 256 | 278 |
| 90% Exceedance                              | 286 | 281 | 330 | 325 | 322 | 314 | 264 | 206 | 245 | 255 | 241 | 264 |
| Full Simulation Period Average <sup>a</sup> | 394 | 419 | 513 | 515 | 485 | 444 | 428 | 379 | 334 | 306 | 315 | 349 |
| Wet Water Years (28%)                       | 296 | 298 | 415 | 413 | 386 | 355 | 313 | 264 | 267 | 273 | 264 | 278 |
| Above Normal Years (14%)                    | 302 | 297 | 474 | 527 | 478 | 453 | 458 | 400 | 326 | 265 | 246 | 276 |
| Below Normal Years (18%)                    | 427 | 438 | 524 | 524 | 485 | 467 | 461 | 402 | 326 | 271 | 281 | 358 |
| Dry Water Years (24%)                       | 460 | 495 | 549 | 559 | 532 | 469 | 463 | 418 | 329 | 283 | 325 | 370 |
| Critical Water Years (16%)                  | 526 | 627 | 663 | 606 | 593 | 530 | 512 | 480 | 474 | 475 | 490 | 498 |

**Table F.2.5-19-4b. Victoria Canal, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 523 | 642 | 658 | 678 | 649 | 546 | 523 | 449 | 421 | 482 | 495 | 491 |
| 20% Exceedance                              | 496 | 571 | 619 | 651 | 596 | 502 | 491 | 423 | 352 | 308 | 342 | 395 |
| 30% Exceedance                              | 462 | 487 | 589 | 613 | 546 | 480 | 474 | 412 | 336 | 297 | 328 | 383 |
| 40% Exceedance                              | 436 | 441 | 540 | 586 | 504 | 471 | 453 | 396 | 331 | 287 | 299 | 366 |
| 50% Exceedance                              | 416 | 402 | 505 | 520 | 483 | 454 | 435 | 384 | 326 | 278 | 287 | 352 |
| 60% Exceedance                              | 327 | 322 | 478 | 476 | 464 | 437 | 421 | 376 | 319 | 269 | 279 | 311 |
| 70% Exceedance                              | 307 | 300 | 443 | 428 | 400 | 417 | 382 | 338 | 310 | 264 | 271 | 292 |
| 80% Exceedance                              | 297 | 289 | 414 | 377 | 364 | 385 | 355 | 306 | 288 | 261 | 257 | 279 |
| 90% Exceedance                              | 286 | 281 | 328 | 327 | 322 | 307 | 259 | 186 | 240 | 255 | 247 | 265 |
| Full Simulation Period Average <sup>a</sup> | 397 | 421 | 508 | 517 | 486 | 444 | 417 | 360 | 330 | 307 | 319 | 352 |
| Wet Water Years (28%)                       | 296 | 298 | 412 | 408 | 384 | 346 | 304 | 246 | 263 | 274 | 266 | 280 |
| Above Normal Years (14%)                    | 305 | 297 | 469 | 527 | 487 | 453 | 428 | 367 | 321 | 263 | 249 | 281 |
| Below Normal Years (18%)                    | 433 | 435 | 520 | 522 | 489 | 470 | 449 | 378 | 321 | 271 | 286 | 358 |
| Dry Water Years (24%)                       | 465 | 500 | 551 | 570 | 540 | 476 | 455 | 402 | 329 | 289 | 333 | 380 |
| Critical Water Years (16%)                  | 523 | 634 | 644 | 615 | 577 | 531 | 509 | 471 | 467 | 473 | 489 | 493 |

**Table F.2.5-19-4c. Victoria Canal, Alt2wTUCPwoVA minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -7  | 6   | -6  | -8  | 1   | -2  | -14 | -22 | -16 | 8   | 30  | -3  |
| 20% Exceedance                              | 6   | 12  | -26 | -3  | 6   | -3  | -17 | -24 | -1  | 0   | 9   | 9   |
| 30% Exceedance                              | 4   | -4  | 1   | -6  | 2   | 1   | -3  | -19 | -4  | 6   | 7   | 6   |
| 40% Exceedance                              | 3   | -7  | -7  | 9   | 5   | 7   | -11 | -18 | -4  | 2   | -3  | 8   |
| 50% Exceedance                              | 13  | 3   | -12 | 5   | 1   | 1   | -3  | -18 | -4  | 1   | 1   | 6   |
| 60% Exceedance                              | 3   | -1  | -5  | 7   | 6   | -1  | -7  | -12 | -2  | 0   | 3   | 8   |
| 70% Exceedance                              | 0   | 1   | -8  | 5   | -6  | -1  | -26 | -28 | -6  | 0   | 5   | 7   |
| 80% Exceedance                              | -1  | 1   | -3  | -6  | -8  | -4  | -22 | -25 | -5  | 0   | 1   | 1   |
| 90% Exceedance                              | 0   | 0   | -2  | 2   | 0   | -7  | -5  | -20 | -6  | 0   | 6   | 1   |
| Full Simulation Period Average <sup>a</sup> | 3   | 2   | -5  | 2   | 1   | 0   | -11 | -19 | -4  | 1   | 3   | 3   |
| Wet Water Years (28%)                       | 1   | 0   | -3  | -5  | -2  | -8  | -9  | -18 | -4  | 1   | 2   | 3   |
| Above Normal Years (14%)                    | 2   | 0   | -5  | -1  | 9   | 0   | -30 | -32 | -6  | -3  | 3   | 6   |
| Below Normal Years (18%)                    | 7   | -3  | -4  | -2  | 4   | 3   | -12 | -25 | -5  | 1   | 4   | 0   |
| Dry Water Years (24%)                       | 6   | 5   | 2   | 12  | 8   | 7   | -8  | -16 | -1  | 6   | 7   | 10  |
| Critical Water Years (16%)                  | -3  | 7   | -19 | 9   | -15 | 2   | -3  | -10 | -7  | -1  | -1  | -5  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-19-5a. Victoria Canal, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 530 | 636 | 664 | 686 | 648 | 548 | 537 | 471 | 437 | 474 | 464 | 493 |
| 20% Exceedance                              | 490 | 558 | 644 | 654 | 591 | 505 | 508 | 447 | 352 | 308 | 332 | 387 |
| 30% Exceedance                              | 459 | 491 | 588 | 620 | 544 | 478 | 476 | 431 | 340 | 291 | 321 | 377 |
| 40% Exceedance                              | 433 | 448 | 548 | 577 | 499 | 464 | 463 | 414 | 335 | 285 | 302 | 359 |
| 50% Exceedance                              | 403 | 398 | 517 | 515 | 482 | 453 | 439 | 403 | 330 | 277 | 286 | 346 |
| 60% Exceedance                              | 324 | 323 | 483 | 469 | 458 | 438 | 428 | 388 | 321 | 269 | 276 | 303 |
| 70% Exceedance                              | 308 | 299 | 451 | 424 | 407 | 418 | 408 | 366 | 316 | 265 | 266 | 285 |
| 80% Exceedance                              | 298 | 289 | 418 | 383 | 372 | 388 | 377 | 331 | 293 | 261 | 256 | 278 |
| 90% Exceedance                              | 286 | 281 | 330 | 325 | 322 | 314 | 264 | 206 | 245 | 255 | 241 | 264 |
| Full Simulation Period Average <sup>a</sup> | 394 | 419 | 513 | 515 | 485 | 444 | 428 | 379 | 334 | 306 | 315 | 349 |
| Wet Water Years (28%)                       | 296 | 298 | 415 | 413 | 386 | 355 | 313 | 264 | 267 | 273 | 264 | 278 |
| Above Normal Years (14%)                    | 302 | 297 | 474 | 527 | 478 | 453 | 458 | 400 | 326 | 265 | 246 | 276 |
| Below Normal Years (18%)                    | 427 | 438 | 524 | 524 | 485 | 467 | 461 | 402 | 326 | 271 | 281 | 358 |
| Dry Water Years (24%)                       | 460 | 495 | 549 | 559 | 532 | 469 | 463 | 418 | 329 | 283 | 325 | 370 |
| Critical Water Years (16%)                  | 526 | 627 | 663 | 606 | 593 | 530 | 512 | 480 | 474 | 475 | 490 | 498 |

**Table F.2.5-19-5b. Victoria Canal, EXP3, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 650 | 734 | 845 | 838 | 834 | 841 | 718 | 625 | 610 | 568 | 580 | 609 |
| 20% Exceedance                              | 624 | 713 | 789 | 802 | 793 | 811 | 703 | 600 | 598 | 562 | 559 | 582 |
| 30% Exceedance                              | 618 | 694 | 767 | 782 | 778 | 798 | 679 | 580 | 586 | 552 | 542 | 559 |
| 40% Exceedance                              | 605 | 685 | 748 | 760 | 756 | 779 | 649 | 555 | 571 | 544 | 529 | 539 |
| 50% Exceedance                              | 591 | 671 | 732 | 740 | 715 | 725 | 570 | 491 | 520 | 532 | 519 | 519 |
| 60% Exceedance                              | 580 | 655 | 703 | 721 | 661 | 591 | 409 | 412 | 480 | 524 | 501 | 500 |
| 70% Exceedance                              | 564 | 624 | 689 | 676 | 519 | 420 | 360 | 359 | 462 | 512 | 482 | 474 |
| 80% Exceedance                              | 522 | 600 | 661 | 566 | 314 | 347 | 298 | 283 | 398 | 489 | 472 | 454 |
| 90% Exceedance                              | 486 | 574 | 592 | 274 | 199 | 221 | 192 | 119 | 290 | 452 | 444 | 431 |
| Full Simulation Period Average <sup>a</sup> | 580 | 656 | 699 | 671 | 611 | 603 | 503 | 441 | 488 | 521 | 514 | 524 |
| Wet Water Years (28%)                       | 524 | 606 | 630 | 524 | 396 | 340 | 263 | 231 | 347 | 477 | 484 | 482 |
| Above Normal Years (14%)                    | 571 | 660 | 741 | 693 | 582 | 536 | 448 | 412 | 461 | 516 | 499 | 495 |
| Below Normal Years (18%)                    | 577 | 680 | 718 | 689 | 629 | 644 | 530 | 470 | 509 | 525 | 509 | 509 |
| Dry Water Years (24%)                       | 600 | 670 | 696 | 752 | 745 | 776 | 660 | 562 | 573 | 539 | 513 | 527 |
| Critical Water Years (16%)                  | 668 | 697 | 767 | 769 | 792 | 815 | 707 | 615 | 609 | 572 | 587 | 634 |

**Table F.2.5-19-5c. Victoria Canal, EXP3 minus NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb  | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 120 | 98  | 181 | 152 | 186  | 293 | 181 | 155 | 173 | 95  | 115 | 116 |
| 20% Exceedance                              | 134 | 154 | 145 | 149 | 202  | 306 | 195 | 153 | 246 | 254 | 227 | 195 |
| 30% Exceedance                              | 159 | 203 | 179 | 162 | 234  | 320 | 202 | 149 | 246 | 261 | 221 | 182 |
| 40% Exceedance                              | 172 | 237 | 200 | 182 | 257  | 315 | 185 | 141 | 236 | 259 | 226 | 180 |
| 50% Exceedance                              | 188 | 272 | 214 | 226 | 233  | 272 | 132 | 88  | 190 | 255 | 233 | 173 |
| 60% Exceedance                              | 256 | 332 | 220 | 252 | 202  | 153 | -19 | 24  | 159 | 255 | 225 | 197 |
| 70% Exceedance                              | 256 | 325 | 238 | 252 | 112  | 2   | -49 | -8  | 146 | 248 | 215 | 189 |
| 80% Exceedance                              | 225 | 311 | 243 | 184 | -58  | -42 | -80 | -48 | 106 | 228 | 216 | 177 |
| 90% Exceedance                              | 200 | 293 | 262 | -51 | -123 | -93 | -72 | -87 | 45  | 198 | 203 | 166 |
| Full Simulation Period Average <sup>a</sup> | 186 | 237 | 186 | 157 | 126  | 158 | 76  | 61  | 154 | 215 | 199 | 174 |
| Wet Water Years (28%)                       | 228 | 308 | 216 | 112 | 9    | -15 | -50 | -33 | 80  | 204 | 220 | 204 |
| Above Normal Years (14%)                    | 268 | 363 | 268 | 166 | 104  | 83  | -10 | 13  | 135 | 251 | 253 | 220 |
| Below Normal Years (18%)                    | 151 | 242 | 194 | 165 | 144  | 177 | 69  | 68  | 183 | 255 | 228 | 151 |
| Dry Water Years (24%)                       | 140 | 175 | 147 | 194 | 213  | 307 | 197 | 144 | 244 | 256 | 188 | 157 |
| Critical Water Years (16%)                  | 143 | 70  | 105 | 163 | 200  | 285 | 195 | 135 | 135 | 97  | 97  | 136 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-19-6a. Victoria Canal, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,613 | 1,222 | 1,155 | 879 | 815 | 804 | 724 | 639 | 619 | 737 | 1,240 | 1,906 |
| 20% Exceedance                              | 1,370 | 1,048 | 966   | 826 | 758 | 764 | 669 | 591 | 590 | 630 | 1,050 | 1,549 |
| 30% Exceedance                              | 1,081 | 909   | 878   | 778 | 735 | 733 | 620 | 562 | 574 | 581 | 844   | 1,238 |
| 40% Exceedance                              | 950   | 832   | 830   | 745 | 699 | 700 | 584 | 510 | 538 | 560 | 712   | 1,074 |
| 50% Exceedance                              | 839   | 763   | 780   | 719 | 655 | 624 | 477 | 436 | 493 | 548 | 630   | 896   |
| 60% Exceedance                              | 750   | 742   | 744   | 687 | 589 | 488 | 381 | 371 | 478 | 538 | 588   | 759   |
| 70% Exceedance                              | 668   | 708   | 723   | 647 | 518 | 359 | 315 | 309 | 459 | 520 | 563   | 622   |
| 80% Exceedance                              | 618   | 676   | 683   | 524 | 293 | 307 | 250 | 237 | 367 | 490 | 542   | 590   |
| 90% Exceedance                              | 581   | 642   | 597   | 288 | 199 | 202 | 137 | 105 | 255 | 448 | 521   | 571   |
| Full Simulation Period Average <sup>a</sup> | 988   | 863   | 815   | 676 | 581 | 549 | 459 | 415 | 477 | 580 | 795   | 1,086 |
| Wet Water Years (28%)                       | 641   | 666   | 663   | 459 | 343 | 291 | 226 | 207 | 330 | 471 | 544   | 623   |
| Above Normal Years (14%)                    | 738   | 728   | 758   | 663 | 538 | 455 | 383 | 365 | 446 | 521 | 598   | 791   |
| Below Normal Years (18%)                    | 968   | 828   | 752   | 693 | 609 | 582 | 471 | 439 | 495 | 556 | 761   | 1,095 |
| Dry Water Years (24%)                       | 1,170 | 933   | 844   | 774 | 715 | 716 | 600 | 527 | 552 | 602 | 861   | 1,283 |
| Critical Water Years (16%)                  | 1,619 | 1,297 | 1,185 | 903 | 802 | 793 | 709 | 629 | 631 | 816 | 1,345 | 1,845 |

**Table F.2.5-19-6b. Victoria Canal, Alt2woTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 521 | 658 | 657 | 699 | 659 | 558 | 523 | 445 | 396 | 373 | 401 | 435 |
| 20% Exceedance                              | 501 | 576 | 611 | 657 | 597 | 521 | 491 | 420 | 352 | 308 | 342 | 395 |
| 30% Exceedance                              | 479 | 498 | 587 | 613 | 539 | 481 | 471 | 412 | 336 | 298 | 329 | 382 |
| 40% Exceedance                              | 442 | 450 | 540 | 586 | 514 | 472 | 453 | 396 | 331 | 288 | 301 | 365 |
| 50% Exceedance                              | 414 | 400 | 506 | 516 | 481 | 458 | 435 | 384 | 326 | 278 | 287 | 347 |
| 60% Exceedance                              | 327 | 321 | 478 | 475 | 466 | 442 | 422 | 376 | 319 | 269 | 278 | 311 |
| 70% Exceedance                              | 307 | 300 | 443 | 429 | 400 | 417 | 382 | 341 | 311 | 264 | 271 | 291 |
| 80% Exceedance                              | 297 | 289 | 415 | 377 | 364 | 385 | 355 | 306 | 288 | 261 | 257 | 279 |
| 90% Exceedance                              | 286 | 281 | 327 | 327 | 322 | 307 | 259 | 186 | 240 | 255 | 247 | 265 |
| Full Simulation Period Average <sup>a</sup> | 398 | 426 | 506 | 518 | 490 | 449 | 416 | 356 | 322 | 297 | 305 | 343 |
| Wet Water Years (28%)                       | 296 | 298 | 412 | 408 | 384 | 346 | 304 | 246 | 263 | 274 | 266 | 280 |
| Above Normal Years (14%)                    | 305 | 296 | 468 | 526 | 489 | 453 | 429 | 368 | 321 | 263 | 249 | 281 |
| Below Normal Years (18%)                    | 436 | 439 | 520 | 528 | 491 | 470 | 449 | 379 | 321 | 271 | 287 | 356 |
| Dry Water Years (24%)                       | 465 | 500 | 551 | 566 | 539 | 476 | 455 | 402 | 329 | 290 | 333 | 379 |
| Critical Water Years (16%)                  | 527 | 659 | 630 | 620 | 602 | 560 | 503 | 442 | 417 | 408 | 404 | 436 |

**Table F.2.5-19-6c. Victoria Canal, Alt2woTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -1,091 | -565 | -498 | -181 | -156 | -246 | -201 | -194 | -223 | -364 | -839 | -1,471 |
| 20% Exceedance                              | -869   | -472 | -355 | -169 | -161 | -243 | -178 | -172 | -238 | -322 | -709 | -1,154 |
| 30% Exceedance                              | -601   | -410 | -291 | -165 | -196 | -252 | -148 | -150 | -238 | -283 | -515 | -855   |
| 40% Exceedance                              | -508   | -382 | -290 | -159 | -184 | -228 | -131 | -114 | -207 | -272 | -411 | -709   |
| 50% Exceedance                              | -425   | -363 | -274 | -204 | -175 | -166 | -42  | -51  | -167 | -269 | -342 | -549   |
| 60% Exceedance                              | -422   | -421 | -266 | -212 | -123 | -46  | 40   | 4    | -159 | -269 | -310 | -447   |
| 70% Exceedance                              | -361   | -408 | -280 | -219 | -118 | 58   | 67   | 32   | -149 | -256 | -292 | -331   |
| 80% Exceedance                              | -321   | -387 | -268 | -147 | 71   | 77   | 105  | 69   | -79  | -229 | -286 | -310   |
| 90% Exceedance                              | -295   | -361 | -270 | 39   | 123  | 105  | 122  | 81   | -15  | -193 | -274 | -306   |
| Full Simulation Period Average <sup>a</sup> | -590   | -438 | -309 | -158 | -91  | -100 | -43  | -59  | -155 | -283 | -489 | -743   |
| Wet Water Years (28%)                       | -345   | -368 | -251 | -50  | 41   | 55   | 78   | 40   | -67  | -197 | -279 | -343   |
| Above Normal Years (14%)                    | -433   | -432 | -290 | -136 | -49  | -1   | 45   | 3    | -125 | -258 | -348 | -510   |
| Below Normal Years (18%)                    | -532   | -389 | -233 | -165 | -118 | -112 | -21  | -59  | -174 | -284 | -474 | -739   |
| Dry Water Years (24%)                       | -705   | -433 | -293 | -208 | -176 | -240 | -145 | -125 | -224 | -312 | -528 | -904   |
| Critical Water Years (16%)                  | -1,092 | -638 | -556 | -283 | -201 | -233 | -206 | -187 | -214 | -408 | -941 | -1,410 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.5-19-7a. Victoria Canal, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,613 | 1,222 | 1,155 | 879 | 815 | 804 | 724 | 639 | 619 | 737 | 1,240 | 1,906 |
| 20% Exceedance                              | 1,370 | 1,048 | 966   | 826 | 758 | 764 | 669 | 591 | 590 | 630 | 1,050 | 1,549 |
| 30% Exceedance                              | 1,081 | 909   | 878   | 778 | 735 | 733 | 620 | 562 | 574 | 581 | 844   | 1,238 |
| 40% Exceedance                              | 950   | 832   | 830   | 745 | 699 | 700 | 584 | 510 | 538 | 560 | 712   | 1,074 |
| 50% Exceedance                              | 839   | 763   | 780   | 719 | 655 | 624 | 477 | 436 | 493 | 548 | 630   | 896   |
| 60% Exceedance                              | 750   | 742   | 744   | 687 | 589 | 488 | 381 | 371 | 478 | 538 | 588   | 759   |
| 70% Exceedance                              | 668   | 708   | 723   | 647 | 518 | 359 | 315 | 309 | 459 | 520 | 563   | 622   |
| 80% Exceedance                              | 618   | 676   | 683   | 524 | 293 | 307 | 250 | 237 | 367 | 490 | 542   | 590   |
| 90% Exceedance                              | 581   | 642   | 597   | 288 | 199 | 202 | 137 | 105 | 255 | 448 | 521   | 571   |
| Full Simulation Period Average <sup>a</sup> | 988   | 863   | 815   | 676 | 581 | 549 | 459 | 415 | 477 | 580 | 795   | 1,086 |
| Wet Water Years (28%)                       | 641   | 666   | 663   | 459 | 343 | 291 | 226 | 207 | 330 | 471 | 544   | 623   |
| Above Normal Years (14%)                    | 738   | 728   | 758   | 663 | 538 | 455 | 383 | 365 | 446 | 521 | 598   | 791   |
| Below Normal Years (18%)                    | 968   | 828   | 752   | 693 | 609 | 582 | 471 | 439 | 495 | 556 | 761   | 1,095 |
| Dry Water Years (24%)                       | 1,170 | 933   | 844   | 774 | 715 | 716 | 600 | 527 | 552 | 602 | 861   | 1,283 |
| Critical Water Years (16%)                  | 1,619 | 1,297 | 1,185 | 903 | 802 | 793 | 709 | 629 | 631 | 816 | 1,345 | 1,845 |

**Table F.2.5-19-7b. Victoria Canal, Alt2woTUCPDeltaVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 522 | 658 | 667 | 675 | 642 | 623 | 574 | 466 | 396 | 364 | 392 | 433 |
| 20% Exceedance                              | 501 | 576 | 621 | 654 | 594 | 559 | 543 | 444 | 360 | 308 | 339 | 405 |
| 30% Exceedance                              | 483 | 500 | 586 | 602 | 541 | 534 | 515 | 433 | 342 | 297 | 322 | 380 |
| 40% Exceedance                              | 434 | 449 | 540 | 574 | 514 | 516 | 502 | 426 | 338 | 289 | 298 | 369 |
| 50% Exceedance                              | 408 | 406 | 512 | 523 | 483 | 488 | 475 | 419 | 332 | 280 | 287 | 350 |
| 60% Exceedance                              | 325 | 321 | 481 | 475 | 467 | 475 | 448 | 387 | 326 | 270 | 280 | 310 |
| 70% Exceedance                              | 306 | 300 | 443 | 427 | 402 | 451 | 411 | 348 | 315 | 266 | 272 | 291 |
| 80% Exceedance                              | 296 | 288 | 416 | 376 | 364 | 397 | 359 | 320 | 288 | 262 | 257 | 277 |
| 90% Exceedance                              | 286 | 280 | 331 | 327 | 322 | 307 | 278 | 189 | 240 | 256 | 245 | 267 |
| Full Simulation Period Average <sup>a</sup> | 399 | 426 | 508 | 517 | 492 | 481 | 448 | 373 | 326 | 296 | 303 | 343 |
| Wet Water Years (28%)                       | 296 | 297 | 414 | 409 | 384 | 354 | 311 | 251 | 263 | 274 | 265 | 279 |
| Above Normal Years (14%)                    | 303 | 295 | 473 | 526 | 489 | 498 | 472 | 396 | 326 | 267 | 251 | 278 |
| Below Normal Years (18%)                    | 434 | 437 | 520 | 531 | 494 | 534 | 506 | 403 | 325 | 273 | 285 | 359 |
| Dry Water Years (24%)                       | 467 | 501 | 549 | 558 | 540 | 513 | 507 | 431 | 338 | 288 | 329 | 382 |
| Critical Water Years (16%)                  | 534 | 663 | 638 | 620 | 612 | 578 | 514 | 447 | 418 | 400 | 396 | 435 |

**Table F.2.5-19-7c. Victoria Canal, Alt2woTUCPDeltaVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -1,090 | -564 | -489 | -204 | -173 | -181 | -150 | -173 | -223 | -374 | -848 | -1,473 |
| 20% Exceedance                              | -869   | -472 | -345 | -173 | -164 | -205 | -126 | -147 | -230 | -322 | -712 | -1,144 |
| 30% Exceedance                              | -597   | -409 | -292 | -176 | -194 | -199 | -105 | -129 | -232 | -284 | -522 | -858   |
| 40% Exceedance                              | -515   | -383 | -290 | -171 | -184 | -184 | -82  | -84  | -200 | -271 | -414 | -706   |
| 50% Exceedance                              | -431   | -357 | -268 | -196 | -172 | -136 | -2   | -17  | -161 | -267 | -342 | -546   |
| 60% Exceedance                              | -425   | -421 | -263 | -212 | -121 | -13  | 67   | 15   | -152 | -269 | -308 | -449   |
| 70% Exceedance                              | -361   | -408 | -280 | -220 | -116 | 92   | 96   | 39   | -145 | -254 | -292 | -331   |
| 80% Exceedance                              | -322   | -388 | -267 | -149 | 72   | 90   | 109  | 83   | -79  | -228 | -286 | -312   |
| 90% Exceedance                              | -295   | -362 | -265 | 39   | 123  | 105  | 140  | 84   | -15  | -192 | -276 | -304   |
| Full Simulation Period Average <sup>a</sup> | -590   | -438 | -307 | -159 | -89  | -68  | -11  | -42  | -151 | -283 | -492 | -743   |
| Wet Water Years (28%)                       | -345   | -369 | -249 | -49  | 41   | 63   | 85   | 44   | -67  | -197 | -279 | -344   |
| Above Normal Years (14%)                    | -435   | -433 | -286 | -136 | -49  | 43   | 89   | 31   | -119 | -254 | -347 | -513   |
| Below Normal Years (18%)                    | -534   | -391 | -233 | -162 | -116 | -48  | 35   | -36  | -169 | -283 | -476 | -736   |
| Dry Water Years (24%)                       | -703   | -432 | -294 | -217 | -175 | -203 | -93  | -96  | -215 | -313 | -531 | -901   |
| Critical Water Years (16%)                  | -1,085 | -635 | -548 | -282 | -190 | -215 | -195 | -182 | -212 | -415 | -949 | -1,410 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-19-8a. Victoria Canal, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,613 | 1,222 | 1,155 | 879 | 815 | 804 | 724 | 639 | 619 | 737 | 1,240 | 1,906 |
| 20% Exceedance                              | 1,370 | 1,048 | 966   | 826 | 758 | 764 | 669 | 591 | 590 | 630 | 1,050 | 1,549 |
| 30% Exceedance                              | 1,081 | 909   | 878   | 778 | 735 | 733 | 620 | 562 | 574 | 581 | 844   | 1,238 |
| 40% Exceedance                              | 950   | 832   | 830   | 745 | 699 | 700 | 584 | 510 | 538 | 560 | 712   | 1,074 |
| 50% Exceedance                              | 839   | 763   | 780   | 719 | 655 | 624 | 477 | 436 | 493 | 548 | 630   | 896   |
| 60% Exceedance                              | 750   | 742   | 744   | 687 | 589 | 488 | 381 | 371 | 478 | 538 | 588   | 759   |
| 70% Exceedance                              | 668   | 708   | 723   | 647 | 518 | 359 | 315 | 309 | 459 | 520 | 563   | 622   |
| 80% Exceedance                              | 618   | 676   | 683   | 524 | 293 | 307 | 250 | 237 | 367 | 490 | 542   | 590   |
| 90% Exceedance                              | 581   | 642   | 597   | 288 | 199 | 202 | 137 | 105 | 255 | 448 | 521   | 571   |
| Full Simulation Period Average <sup>a</sup> | 988   | 863   | 815   | 676 | 581 | 549 | 459 | 415 | 477 | 580 | 795   | 1,086 |
| Wet Water Years (28%)                       | 641   | 666   | 663   | 459 | 343 | 291 | 226 | 207 | 330 | 471 | 544   | 623   |
| Above Normal Years (14%)                    | 738   | 728   | 758   | 663 | 538 | 455 | 383 | 365 | 446 | 521 | 598   | 791   |
| Below Normal Years (18%)                    | 968   | 828   | 752   | 693 | 609 | 582 | 471 | 439 | 495 | 556 | 761   | 1,095 |
| Dry Water Years (24%)                       | 1,170 | 933   | 844   | 774 | 715 | 716 | 600 | 527 | 552 | 602 | 861   | 1,283 |
| Critical Water Years (16%)                  | 1,619 | 1,297 | 1,185 | 903 | 802 | 793 | 709 | 629 | 631 | 816 | 1,345 | 1,845 |

**Table F.2.5-19-8b. Victoria Canal, Alt2woTUCPAIIVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 522 | 658 | 669 | 678 | 644 | 618 | 573 | 459 | 391 | 370 | 393 | 431 |
| 20% Exceedance                              | 500 | 545 | 604 | 652 | 578 | 559 | 543 | 444 | 352 | 308 | 337 | 403 |
| 30% Exceedance                              | 467 | 493 | 580 | 609 | 546 | 534 | 515 | 434 | 339 | 298 | 326 | 379 |
| 40% Exceedance                              | 432 | 444 | 539 | 565 | 514 | 514 | 503 | 426 | 336 | 289 | 300 | 370 |
| 50% Exceedance                              | 407 | 405 | 520 | 516 | 483 | 487 | 475 | 417 | 331 | 283 | 288 | 351 |
| 60% Exceedance                              | 325 | 319 | 483 | 481 | 466 | 475 | 447 | 386 | 325 | 273 | 281 | 310 |
| 70% Exceedance                              | 306 | 299 | 445 | 432 | 402 | 451 | 410 | 346 | 313 | 267 | 271 | 290 |
| 80% Exceedance                              | 296 | 287 | 417 | 375 | 364 | 397 | 359 | 320 | 289 | 262 | 257 | 277 |
| 90% Exceedance                              | 285 | 279 | 329 | 327 | 323 | 307 | 278 | 189 | 240 | 257 | 245 | 264 |
| Full Simulation Period Average <sup>a</sup> | 397 | 423 | 510 | 517 | 492 | 481 | 448 | 372 | 323 | 296 | 303 | 342 |
| Wet Water Years (28%)                       | 295 | 296 | 414 | 412 | 384 | 356 | 311 | 251 | 263 | 275 | 265 | 279 |
| Above Normal Years (14%)                    | 302 | 294 | 473 | 526 | 489 | 496 | 472 | 396 | 325 | 266 | 248 | 277 |
| Below Normal Years (18%)                    | 429 | 434 | 519 | 531 | 494 | 534 | 506 | 401 | 323 | 275 | 285 | 358 |
| Dry Water Years (24%)                       | 464 | 491 | 546 | 554 | 533 | 512 | 507 | 431 | 336 | 290 | 332 | 383 |
| Critical Water Years (16%)                  | 540 | 669 | 656 | 622 | 619 | 582 | 514 | 443 | 408 | 391 | 391 | 433 |

**Table F.2.5-19-8c. Victoria Canal, Alt2woTUCPAIIVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -1,091 | -564 | -486 | -201 | -171 | -186 | -151 | -181 | -229 | -367 | -846 | -1,475 |
| 20% Exceedance                              | -871   | -503 | -361 | -174 | -180 | -206 | -126 | -148 | -238 | -321 | -714 | -1,145 |
| 30% Exceedance                              | -614   | -416 | -298 | -169 | -190 | -199 | -105 | -129 | -235 | -284 | -518 | -858   |
| 40% Exceedance                              | -517   | -388 | -291 | -180 | -185 | -186 | -81  | -84  | -203 | -271 | -413 | -705   |
| 50% Exceedance                              | -431   | -358 | -260 | -204 | -173 | -137 | -2   | -19  | -162 | -265 | -342 | -544   |
| 60% Exceedance                              | -424   | -423 | -261 | -206 | -123 | -13  | 66   | 15   | -153 | -266 | -308 | -449   |
| 70% Exceedance                              | -361   | -409 | -278 | -215 | -116 | 91   | 96   | 37   | -146 | -253 | -292 | -331   |
| 80% Exceedance                              | -322   | -389 | -266 | -150 | 71   | 90   | 109  | 83   | -78  | -228 | -285 | -312   |
| 90% Exceedance                              | -296   | -363 | -268 | 39   | 123  | 105  | 141  | 84   | -15  | -191 | -276 | -306   |
| Full Simulation Period Average <sup>a</sup> | -591   | -440 | -305 | -159 | -89  | -68  | -11  | -43  | -154 | -284 | -492 | -743   |
| Wet Water Years (28%)                       | -346   | -369 | -248 | -47  | 41   | 64   | 85   | 44   | -67  | -197 | -279 | -344   |
| Above Normal Years (14%)                    | -436   | -434 | -285 | -136 | -49  | 42   | 88   | 31   | -121 | -254 | -349 | -515   |
| Below Normal Years (18%)                    | -539   | -394 | -233 | -162 | -115 | -48  | 35   | -38  | -172 | -280 | -476 | -737   |
| Dry Water Years (24%)                       | -706   | -442 | -298 | -221 | -182 | -205 | -93  | -95  | -216 | -312 | -529 | -900   |
| Critical Water Years (16%)                  | -1,079 | -628 | -529 | -281 | -183 | -211 | -195 | -185 | -223 | -425 | -954 | -1,412 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-19-9a. Victoria Canal, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,613 | 1,222 | 1,155 | 879 | 815 | 804 | 724 | 639 | 619 | 737 | 1,240 | 1,906 |
| 20% Exceedance                              | 1,370 | 1,048 | 966   | 826 | 758 | 764 | 669 | 591 | 590 | 630 | 1,050 | 1,549 |
| 30% Exceedance                              | 1,081 | 909   | 878   | 778 | 735 | 733 | 620 | 562 | 574 | 581 | 844   | 1,238 |
| 40% Exceedance                              | 950   | 832   | 830   | 745 | 699 | 700 | 584 | 510 | 538 | 560 | 712   | 1,074 |
| 50% Exceedance                              | 839   | 763   | 780   | 719 | 655 | 624 | 477 | 436 | 493 | 548 | 630   | 896   |
| 60% Exceedance                              | 750   | 742   | 744   | 687 | 589 | 488 | 381 | 371 | 478 | 538 | 588   | 759   |
| 70% Exceedance                              | 668   | 708   | 723   | 647 | 518 | 359 | 315 | 309 | 459 | 520 | 563   | 622   |
| 80% Exceedance                              | 618   | 676   | 683   | 524 | 293 | 307 | 250 | 237 | 367 | 490 | 542   | 590   |
| 90% Exceedance                              | 581   | 642   | 597   | 288 | 199 | 202 | 137 | 105 | 255 | 448 | 521   | 571   |
| Full Simulation Period Average <sup>a</sup> | 988   | 863   | 815   | 676 | 581 | 549 | 459 | 415 | 477 | 580 | 795   | 1,086 |
| Wet Water Years (28%)                       | 641   | 666   | 663   | 459 | 343 | 291 | 226 | 207 | 330 | 471 | 544   | 623   |
| Above Normal Years (14%)                    | 738   | 728   | 758   | 663 | 538 | 455 | 383 | 365 | 446 | 521 | 598   | 791   |
| Below Normal Years (18%)                    | 968   | 828   | 752   | 693 | 609 | 582 | 471 | 439 | 495 | 556 | 761   | 1,095 |
| Dry Water Years (24%)                       | 1,170 | 933   | 844   | 774 | 715 | 716 | 600 | 527 | 552 | 602 | 861   | 1,283 |
| Critical Water Years (16%)                  | 1,619 | 1,297 | 1,185 | 903 | 802 | 793 | 709 | 629 | 631 | 816 | 1,345 | 1,845 |

**Table F.2.5-19-9b. Victoria Canal, Alt2wTUCPwoVA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 523 | 642 | 658 | 678 | 649 | 546 | 523 | 449 | 421 | 482 | 495 | 491 |
| 20% Exceedance                              | 496 | 571 | 619 | 651 | 596 | 502 | 491 | 423 | 352 | 308 | 342 | 395 |
| 30% Exceedance                              | 462 | 487 | 589 | 613 | 546 | 480 | 474 | 412 | 336 | 297 | 328 | 383 |
| 40% Exceedance                              | 436 | 441 | 540 | 586 | 504 | 471 | 453 | 396 | 331 | 287 | 299 | 366 |
| 50% Exceedance                              | 416 | 402 | 505 | 520 | 483 | 454 | 435 | 384 | 326 | 278 | 287 | 352 |
| 60% Exceedance                              | 327 | 322 | 478 | 476 | 464 | 437 | 421 | 376 | 319 | 269 | 279 | 311 |
| 70% Exceedance                              | 307 | 300 | 443 | 428 | 400 | 417 | 382 | 338 | 310 | 264 | 271 | 292 |
| 80% Exceedance                              | 297 | 289 | 414 | 377 | 364 | 385 | 355 | 306 | 288 | 261 | 257 | 279 |
| 90% Exceedance                              | 286 | 281 | 328 | 327 | 322 | 307 | 259 | 186 | 240 | 255 | 247 | 265 |
| Full Simulation Period Average <sup>a</sup> | 397 | 421 | 508 | 517 | 486 | 444 | 417 | 360 | 330 | 307 | 319 | 352 |
| Wet Water Years (28%)                       | 296 | 298 | 412 | 408 | 384 | 346 | 304 | 246 | 263 | 274 | 266 | 280 |
| Above Normal Years (14%)                    | 305 | 297 | 469 | 527 | 487 | 453 | 428 | 367 | 321 | 263 | 249 | 281 |
| Below Normal Years (18%)                    | 433 | 435 | 520 | 522 | 489 | 470 | 449 | 378 | 321 | 271 | 286 | 358 |
| Dry Water Years (24%)                       | 465 | 500 | 551 | 570 | 540 | 476 | 455 | 402 | 329 | 289 | 333 | 380 |
| Critical Water Years (16%)                  | 523 | 634 | 644 | 615 | 577 | 531 | 509 | 471 | 467 | 473 | 489 | 493 |

**Table F.2.5-19-9c. Victoria Canal, Alt2wTUCPwoVA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -1,090 | -581 | -497 | -201 | -166 | -258 | -201 | -190 | -198 | -256 | -745 | -1,415 |
| 20% Exceedance                              | -874   | -477 | -347 | -176 | -162 | -262 | -178 | -169 | -238 | -322 | -709 | -1,153 |
| 30% Exceedance                              | -618   | -422 | -289 | -165 | -189 | -253 | -146 | -150 | -238 | -284 | -516 | -855   |
| 40% Exceedance                              | -514   | -391 | -290 | -159 | -195 | -229 | -131 | -114 | -207 | -273 | -413 | -708   |
| 50% Exceedance                              | -423   | -361 | -275 | -199 | -172 | -170 | -42  | -51  | -167 | -269 | -342 | -543   |
| 60% Exceedance                              | -423   | -421 | -266 | -211 | -125 | -51  | 40   | 4    | -159 | -269 | -309 | -447   |
| 70% Exceedance                              | -360   | -408 | -280 | -219 | -118 | 58   | 67   | 29   | -150 | -256 | -292 | -330   |
| 80% Exceedance                              | -321   | -387 | -268 | -148 | 71   | 77   | 105  | 69   | -79  | -229 | -286 | -310   |
| 90% Exceedance                              | -295   | -361 | -269 | 39   | 122  | 105  | 122  | 81   | -15  | -193 | -274 | -306   |
| Full Simulation Period Average <sup>a</sup> | -591   | -442 | -307 | -159 | -95  | -105 | -43  | -55  | -148 | -272 | -476 | -733   |
| Wet Water Years (28%)                       | -345   | -368 | -251 | -51  | 41   | 55   | 78   | 39   | -67  | -197 | -279 | -343   |
| Above Normal Years (14%)                    | -433   | -432 | -289 | -136 | -51  | -2   | 45   | 3    | -125 | -258 | -349 | -510   |
| Below Normal Years (18%)                    | -535   | -393 | -232 | -171 | -120 | -112 | -22  | -61  | -174 | -284 | -475 | -737   |
| Dry Water Years (24%)                       | -705   | -433 | -293 | -204 | -175 | -240 | -145 | -125 | -224 | -312 | -528 | -903   |
| Critical Water Years (16%)                  | -1,096 | -664 | -542 | -288 | -225 | -262 | -200 | -158 | -164 | -342 | -856 | -1,352 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.5-19-10a. Victoria Canal, EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|-------|
| 10% Exceedance                              | 1,613 | 1,222 | 1,155 | 879 | 815 | 804 | 724 | 639 | 619 | 737 | 1,240 | 1,906 |
| 20% Exceedance                              | 1,370 | 1,048 | 966   | 826 | 758 | 764 | 669 | 591 | 590 | 630 | 1,050 | 1,549 |
| 30% Exceedance                              | 1,081 | 909   | 878   | 778 | 735 | 733 | 620 | 562 | 574 | 581 | 844   | 1,238 |
| 40% Exceedance                              | 950   | 832   | 830   | 745 | 699 | 700 | 584 | 510 | 538 | 560 | 712   | 1,074 |
| 50% Exceedance                              | 839   | 763   | 780   | 719 | 655 | 624 | 477 | 436 | 493 | 548 | 630   | 896   |
| 60% Exceedance                              | 750   | 742   | 744   | 687 | 589 | 488 | 381 | 371 | 478 | 538 | 588   | 759   |
| 70% Exceedance                              | 668   | 708   | 723   | 647 | 518 | 359 | 315 | 309 | 459 | 520 | 563   | 622   |
| 80% Exceedance                              | 618   | 676   | 683   | 524 | 293 | 307 | 250 | 237 | 367 | 490 | 542   | 590   |
| 90% Exceedance                              | 581   | 642   | 597   | 288 | 199 | 202 | 137 | 105 | 255 | 448 | 521   | 571   |
| Full Simulation Period Average <sup>a</sup> | 988   | 863   | 815   | 676 | 581 | 549 | 459 | 415 | 477 | 580 | 795   | 1,086 |
| Wet Water Years (28%)                       | 641   | 666   | 663   | 459 | 343 | 291 | 226 | 207 | 330 | 471 | 544   | 623   |
| Above Normal Years (14%)                    | 738   | 728   | 758   | 663 | 538 | 455 | 383 | 365 | 446 | 521 | 598   | 791   |
| Below Normal Years (18%)                    | 968   | 828   | 752   | 693 | 609 | 582 | 471 | 439 | 495 | 556 | 761   | 1,095 |
| Dry Water Years (24%)                       | 1,170 | 933   | 844   | 774 | 715 | 716 | 600 | 527 | 552 | 602 | 861   | 1,283 |
| Critical Water Years (16%)                  | 1,619 | 1,297 | 1,185 | 903 | 802 | 793 | 709 | 629 | 631 | 816 | 1,345 | 1,845 |

**Table F.2.5-19-10b. Victoria Canal, NAA, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 530 | 636 | 664 | 686 | 648 | 548 | 537 | 471 | 437 | 474 | 464 | 493 |
| 20% Exceedance                              | 490 | 558 | 644 | 654 | 591 | 505 | 508 | 447 | 352 | 308 | 332 | 387 |
| 30% Exceedance                              | 459 | 491 | 588 | 620 | 544 | 478 | 476 | 431 | 340 | 291 | 321 | 377 |
| 40% Exceedance                              | 433 | 448 | 548 | 577 | 499 | 464 | 463 | 414 | 335 | 285 | 302 | 359 |
| 50% Exceedance                              | 403 | 398 | 517 | 515 | 482 | 453 | 439 | 403 | 330 | 277 | 286 | 346 |
| 60% Exceedance                              | 324 | 323 | 483 | 469 | 458 | 438 | 428 | 388 | 321 | 269 | 276 | 303 |
| 70% Exceedance                              | 308 | 299 | 451 | 424 | 407 | 418 | 408 | 366 | 316 | 265 | 266 | 285 |
| 80% Exceedance                              | 298 | 289 | 418 | 383 | 372 | 388 | 377 | 331 | 293 | 261 | 256 | 278 |
| 90% Exceedance                              | 286 | 281 | 330 | 325 | 322 | 314 | 264 | 206 | 245 | 255 | 241 | 264 |
| Full Simulation Period Average <sup>a</sup> | 394 | 419 | 513 | 515 | 485 | 444 | 428 | 379 | 334 | 306 | 315 | 349 |
| Wet Water Years (28%)                       | 296 | 298 | 415 | 413 | 386 | 355 | 313 | 264 | 267 | 273 | 264 | 278 |
| Above Normal Years (14%)                    | 302 | 297 | 474 | 527 | 478 | 453 | 458 | 400 | 326 | 265 | 246 | 276 |
| Below Normal Years (18%)                    | 427 | 438 | 524 | 524 | 485 | 467 | 461 | 402 | 326 | 271 | 281 | 358 |
| Dry Water Years (24%)                       | 460 | 495 | 549 | 559 | 532 | 469 | 463 | 418 | 329 | 283 | 325 | 370 |
| Critical Water Years (16%)                  | 526 | 627 | 663 | 606 | 593 | 530 | 512 | 480 | 474 | 475 | 490 | 498 |

**Table F.2.5-19-10c. Victoria Canal, NAA minus EXP1, Monthly EC (UMHOS/CM)**

| Statistic                                   | Oct    | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep    |
|---------------------------------------------|--------|------|------|------|------|------|------|------|------|------|------|--------|
| 10% Exceedance                              | -1,083 | -586 | -491 | -193 | -167 | -256 | -187 | -168 | -182 | -263 | -775 | -1,412 |
| 20% Exceedance                              | -881   | -489 | -321 | -173 | -168 | -259 | -161 | -144 | -238 | -322 | -718 | -1,162 |
| 30% Exceedance                              | -622   | -418 | -290 | -158 | -192 | -254 | -143 | -131 | -234 | -290 | -523 | -861   |
| 40% Exceedance                              | -517   | -384 | -283 | -168 | -200 | -235 | -121 | -96  | -203 | -275 | -410 | -715   |
| 50% Exceedance                              | -436   | -364 | -262 | -205 | -173 | -171 | -38  | -33  | -163 | -270 | -343 | -549   |
| 60% Exceedance                              | -426   | -419 | -261 | -218 | -130 | -49  | 47   | 16   | -157 | -269 | -312 | -455   |
| 70% Exceedance                              | -360   | -408 | -272 | -223 | -111 | 59   | 94   | 57   | -144 | -255 | -297 | -337   |
| 80% Exceedance                              | -320   | -388 | -265 | -141 | 79   | 81   | 127  | 94   | -74  | -229 | -287 | -312   |
| 90% Exceedance                              | -295   | -361 | -266 | 37   | 123  | 111  | 126  | 101  | -10  | -194 | -280 | -306   |
| Full Simulation Period Average <sup>a</sup> | -594   | -444 | -302 | -162 | -96  | -105 | -31  | -35  | -143 | -274 | -479 | -736   |
| Wet Water Years (28%)                       | -345   | -368 | -248 | -46  | 43   | 63   | 87   | 57   | -63  | -198 | -281 | -345   |
| Above Normal Years (14%)                    | -435   | -432 | -285 | -135 | -60  | -2   | 74   | 35   | -119 | -255 | -351 | -515   |
| Below Normal Years (18%)                    | -542   | -390 | -228 | -169 | -124 | -115 | -10  | -36  | -169 | -285 | -480 | -737   |
| Dry Water Years (24%)                       | -711   | -438 | -295 | -216 | -183 | -247 | -137 | -109 | -223 | -319 | -536 | -913   |
| Critical Water Years (16%)                  | -1,093 | -670 | -523 | -297 | -210 | -263 | -197 | -148 | -157 | -341 | -855 | -1,347 |

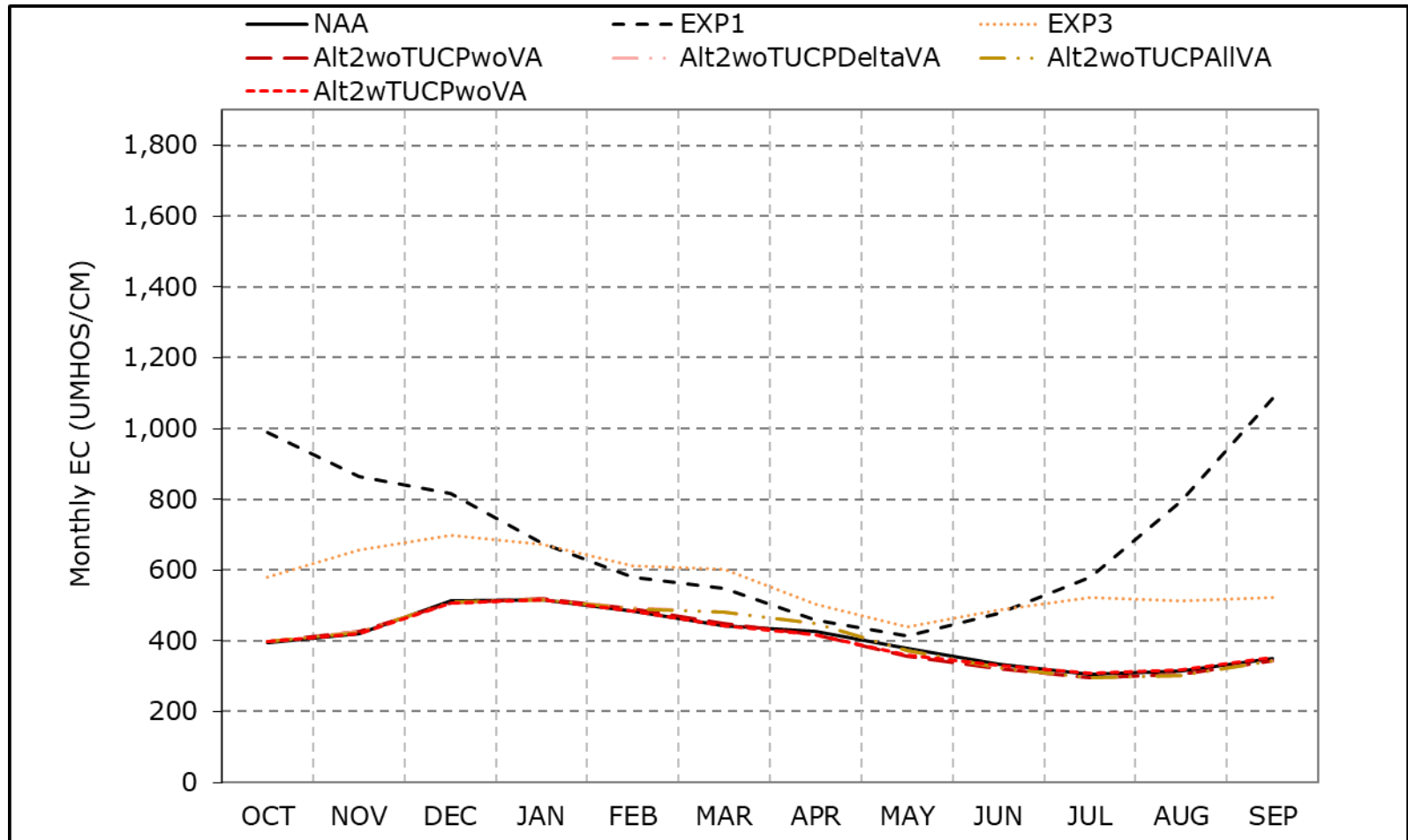
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.5-19-1. Victoria Canal, Long-Term Average EC**

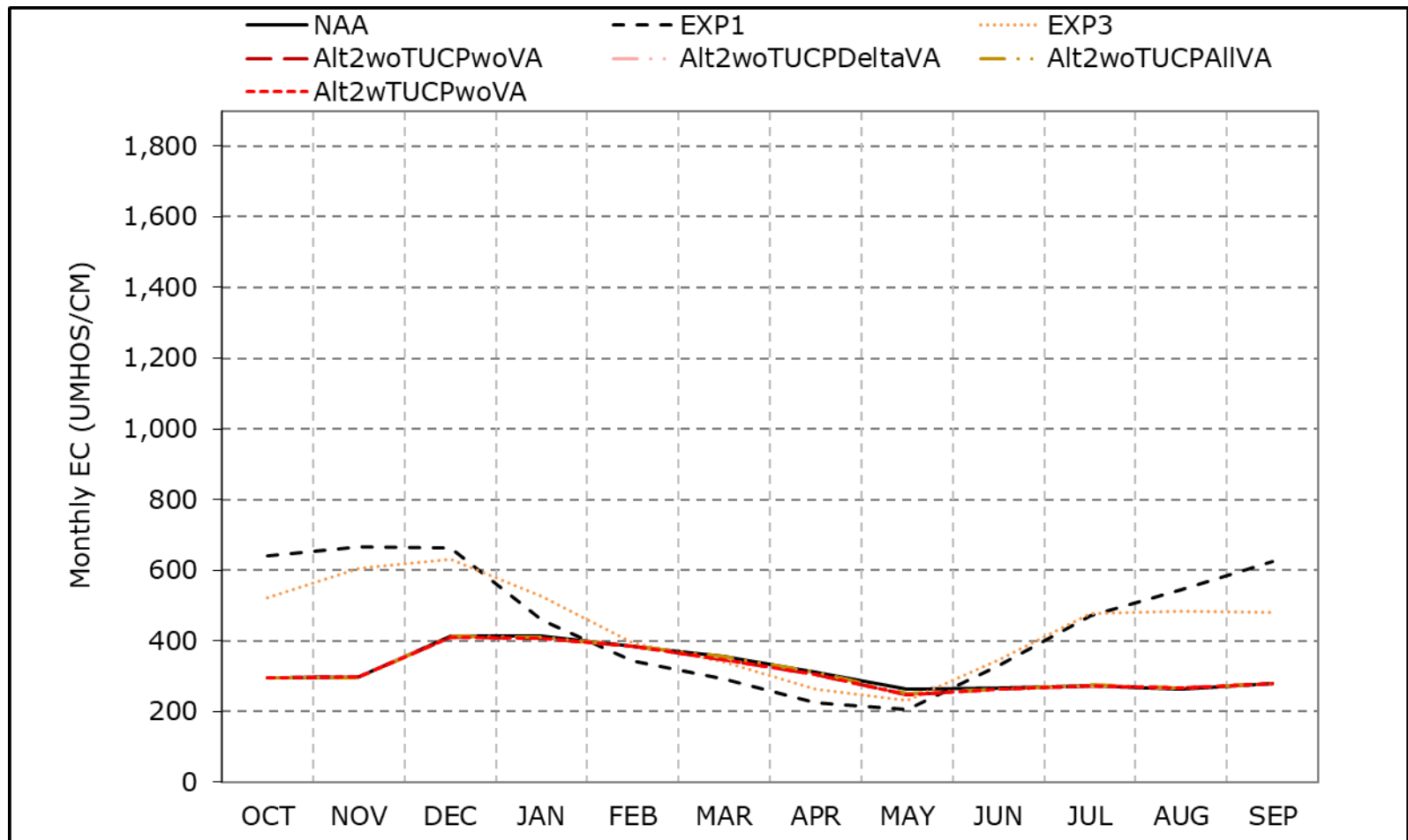


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-2. Victoria Canal, Wet Year Average EC**

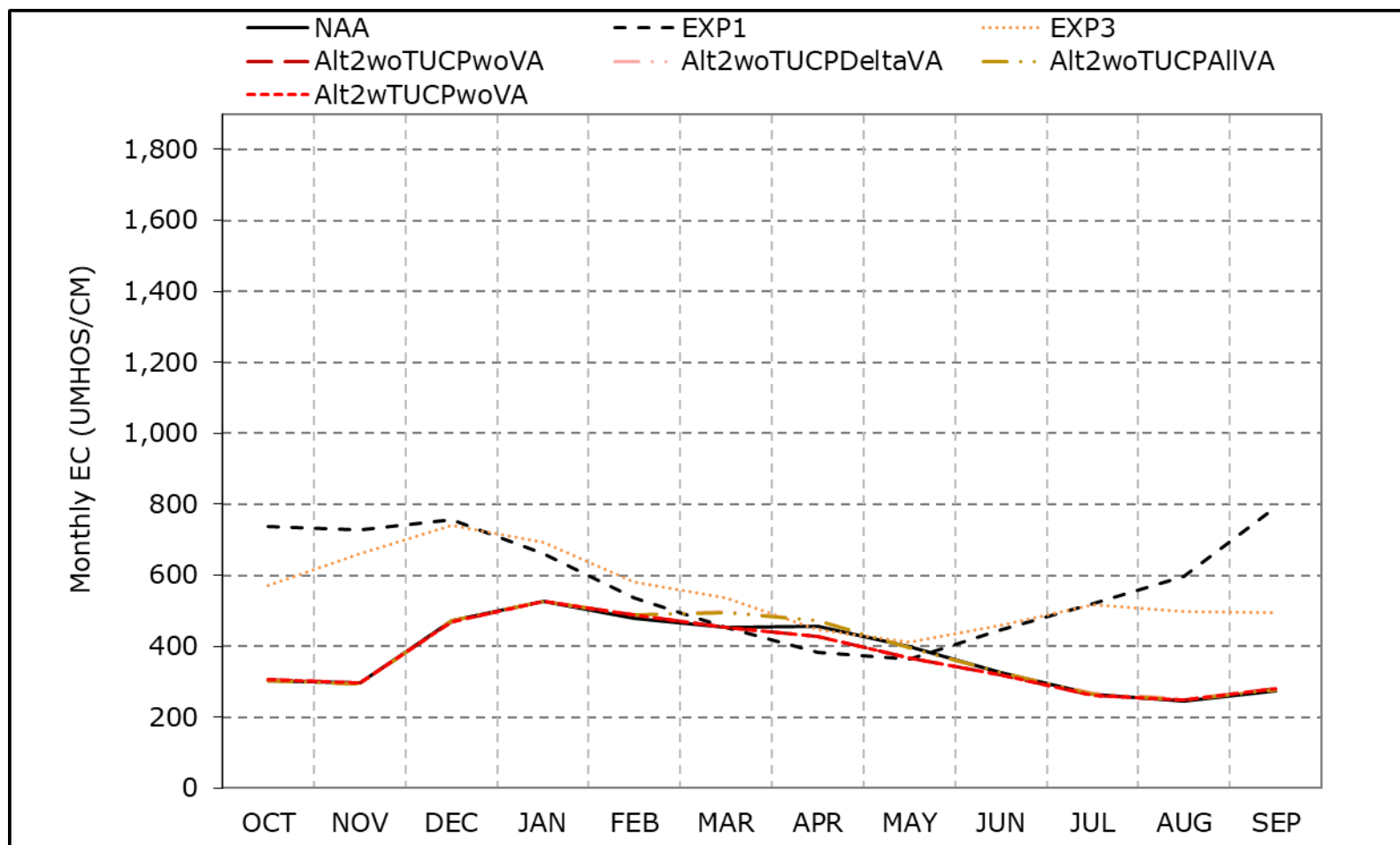


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-3. Victoria Canal, Above Normal Year Average EC**

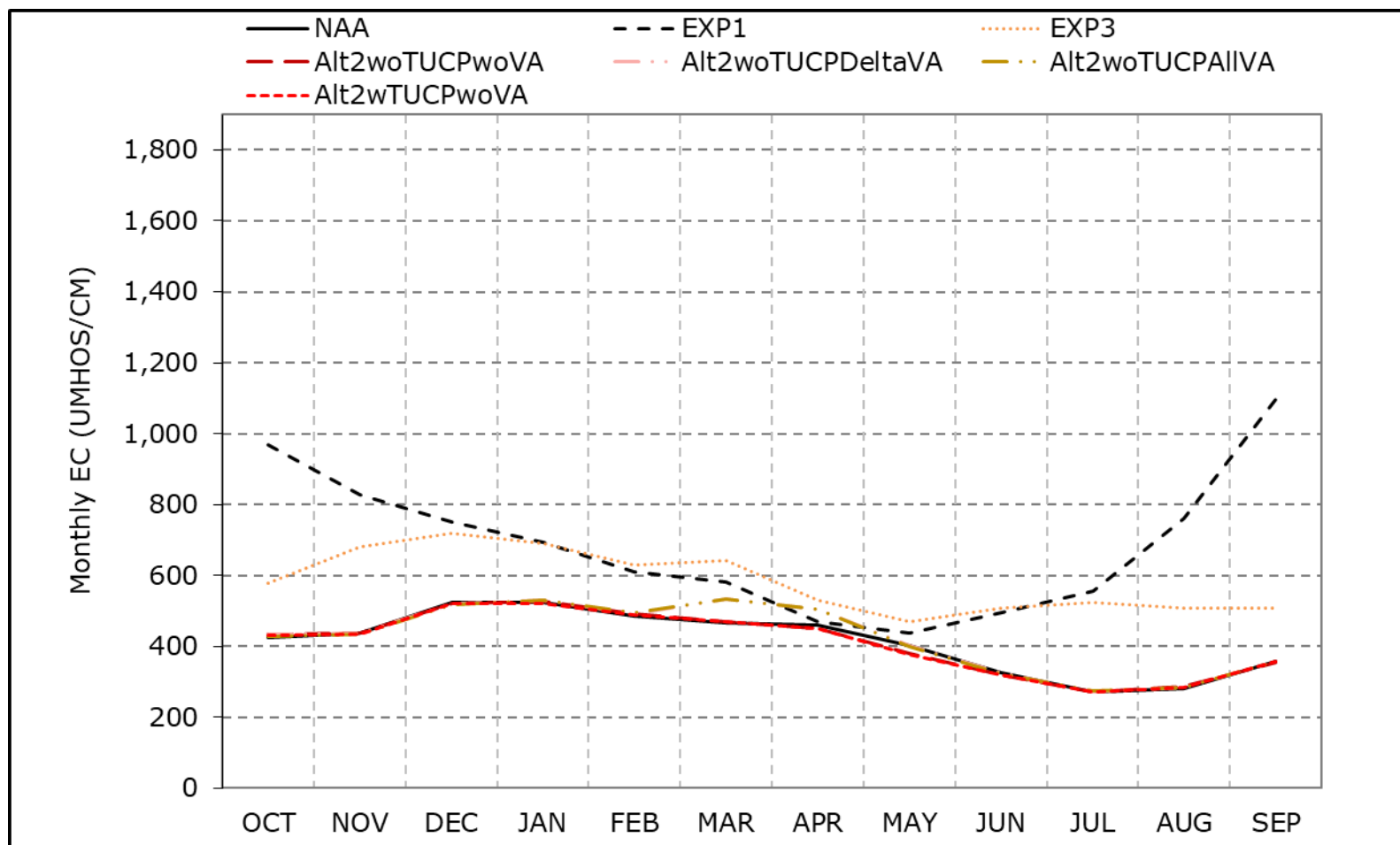


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-4. Victoria Canal, Below Normal Year Average EC**



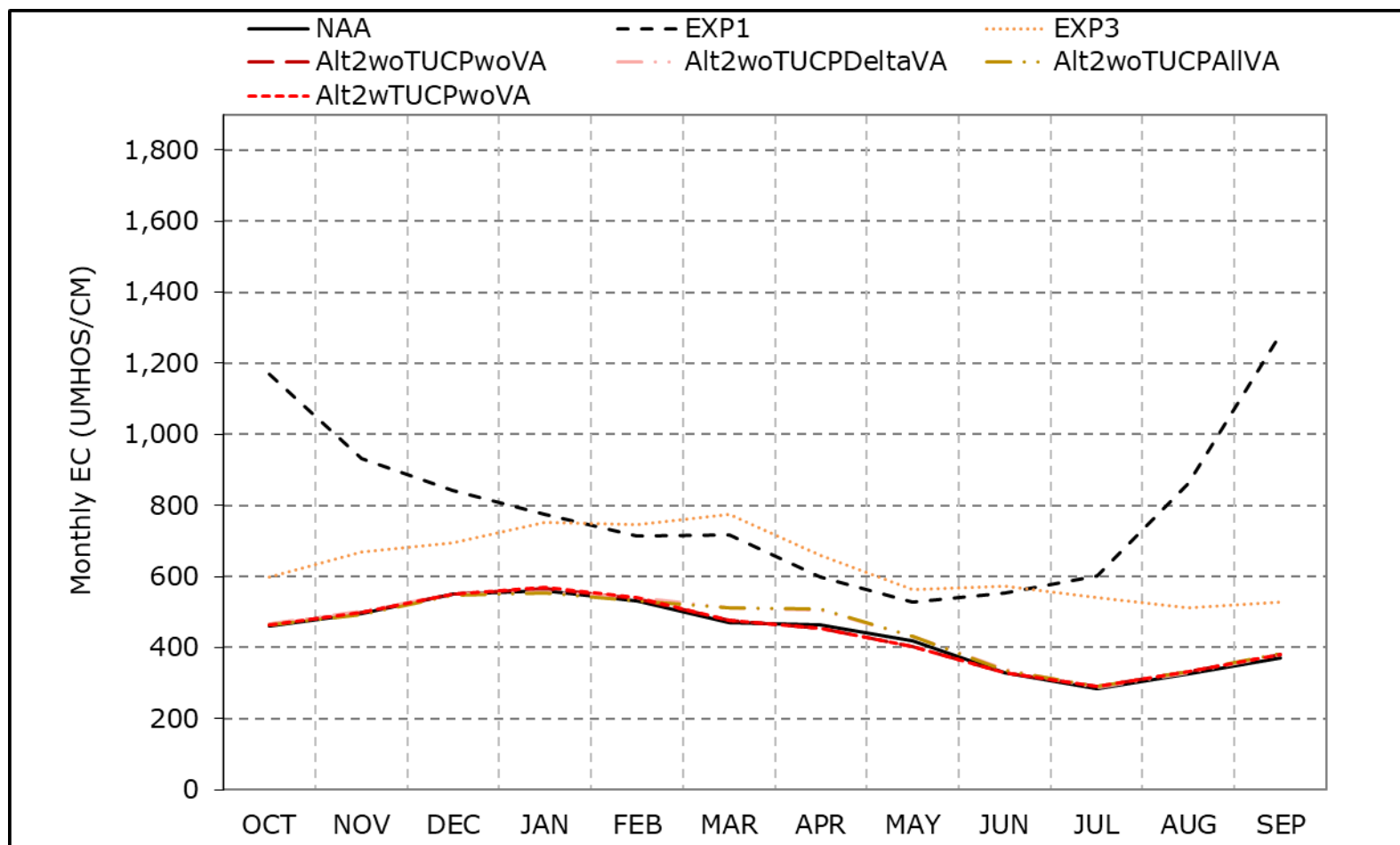
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.5-19-5. Victoria Canal, Dry Year Average EC**

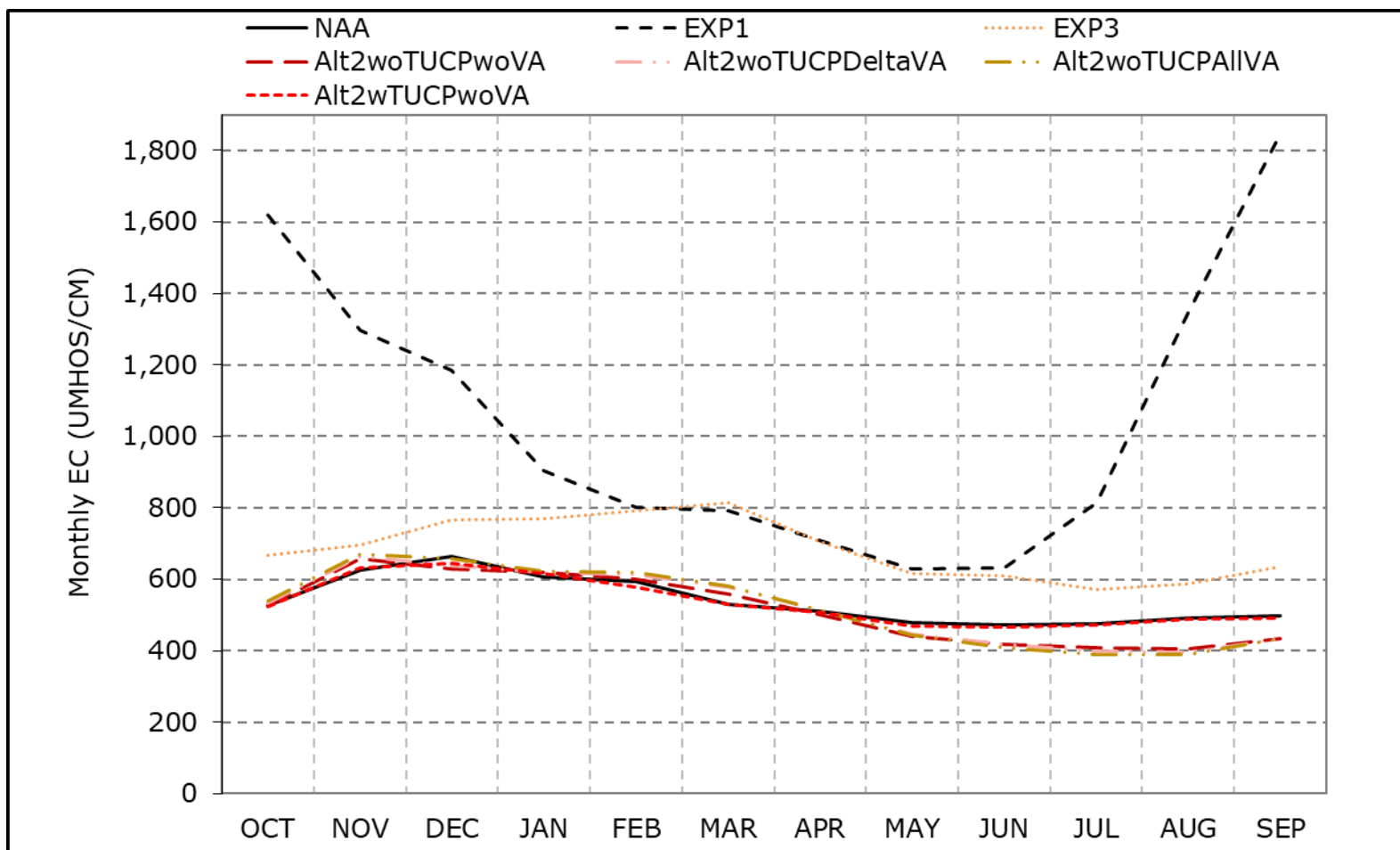


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-6. Victoria Canal, Critical Year Average EC**

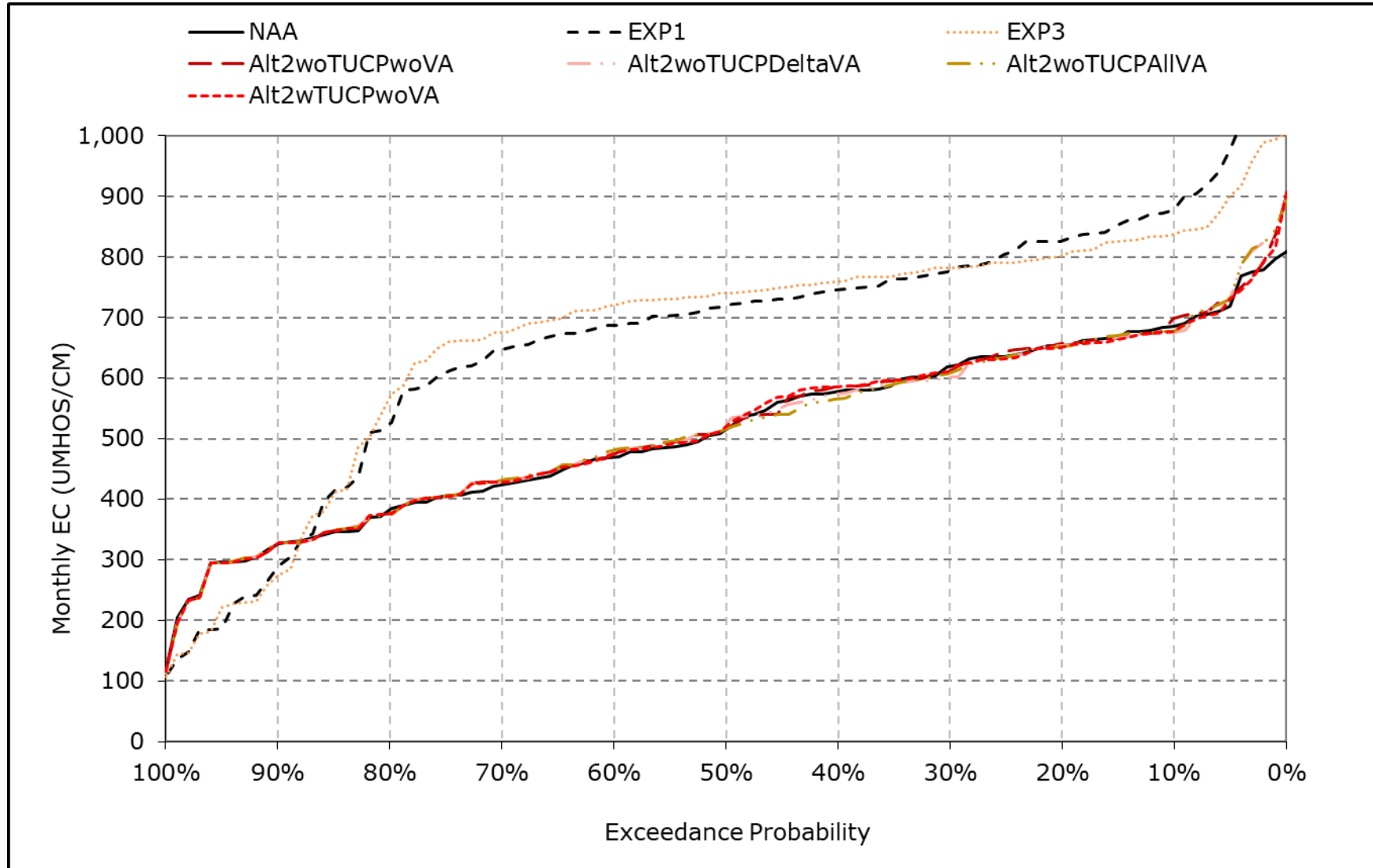


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

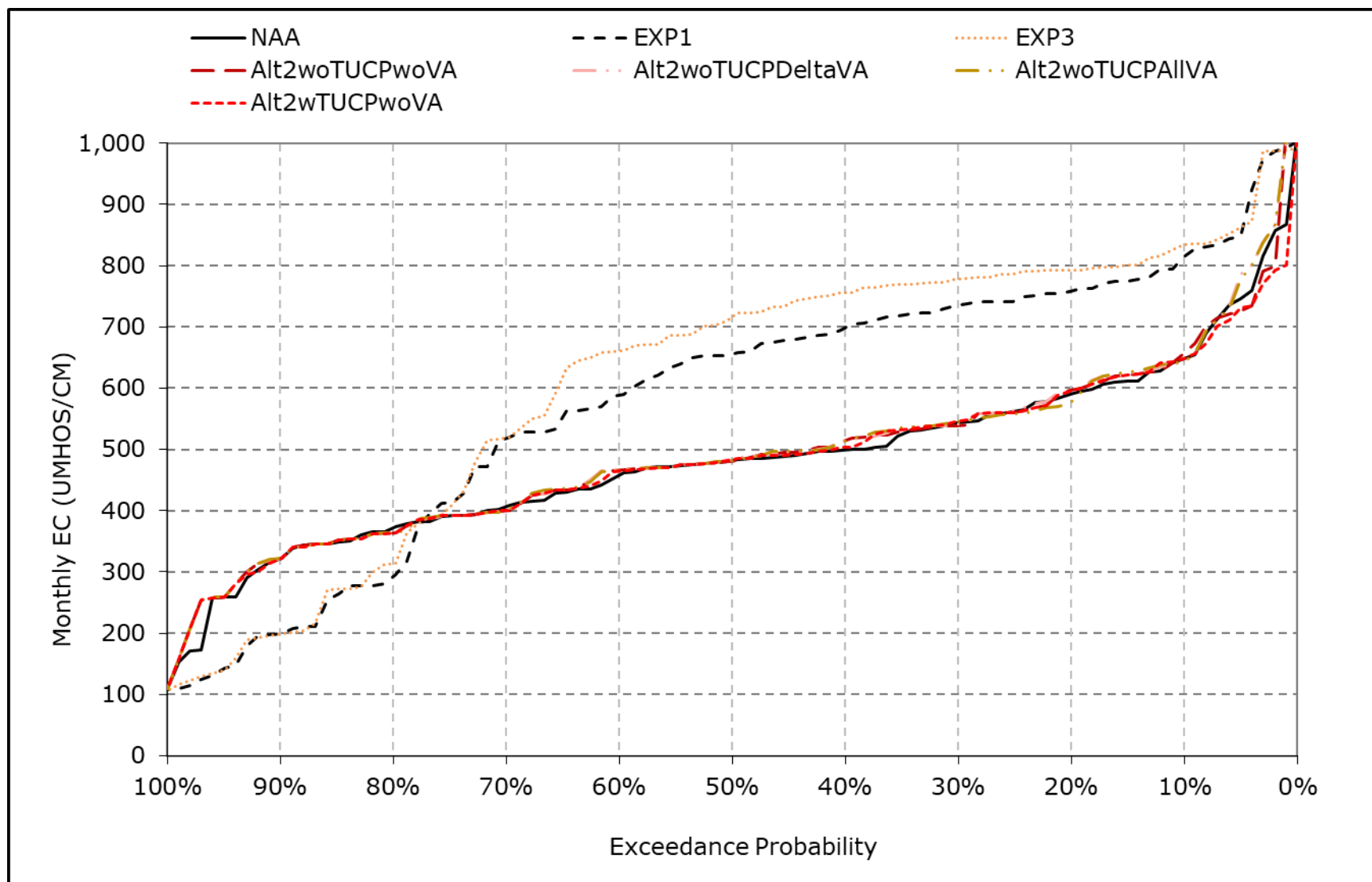
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-7. Victoria Canal, January EC**



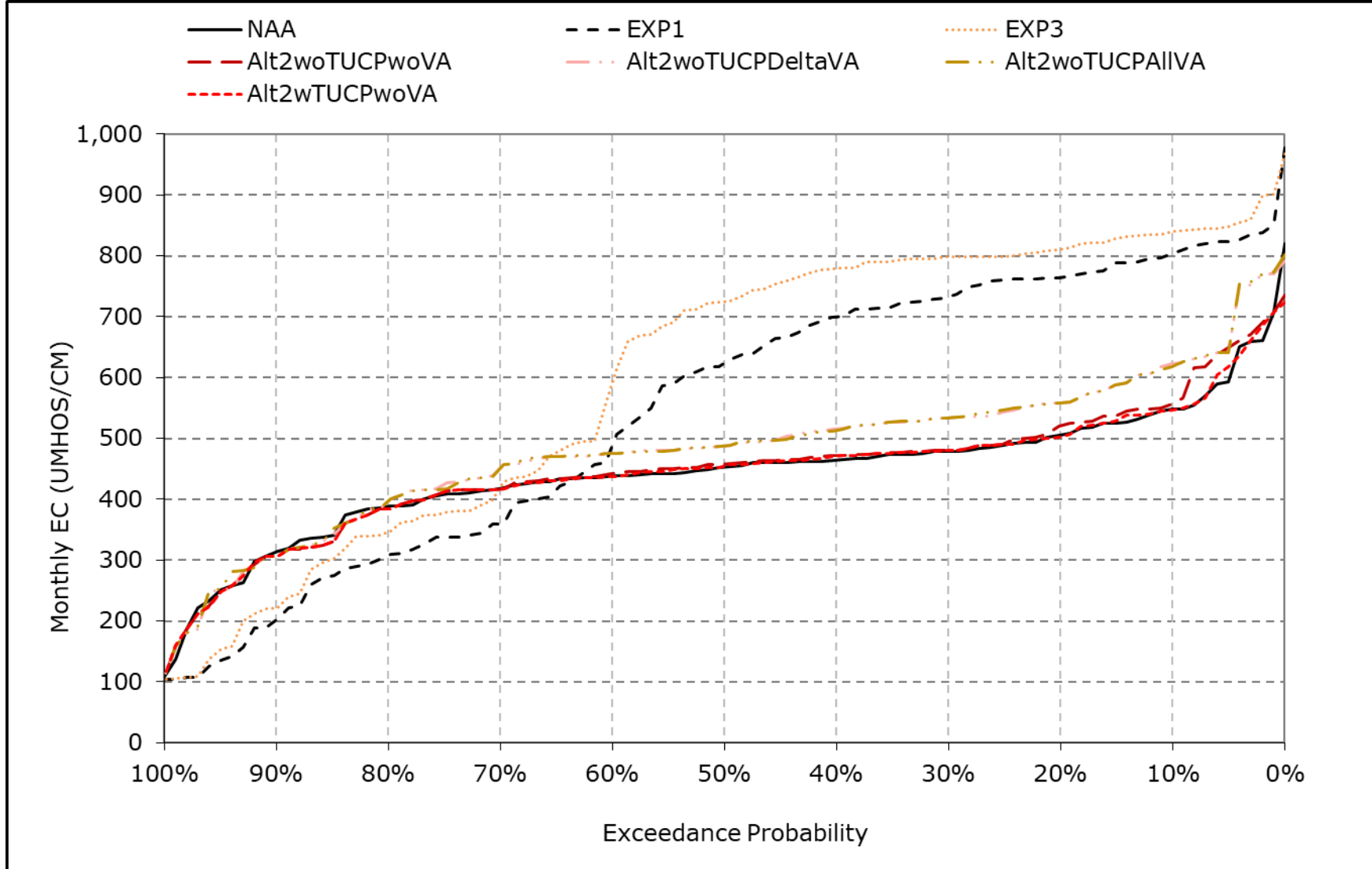
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-8. Victoria Canal, February EC**



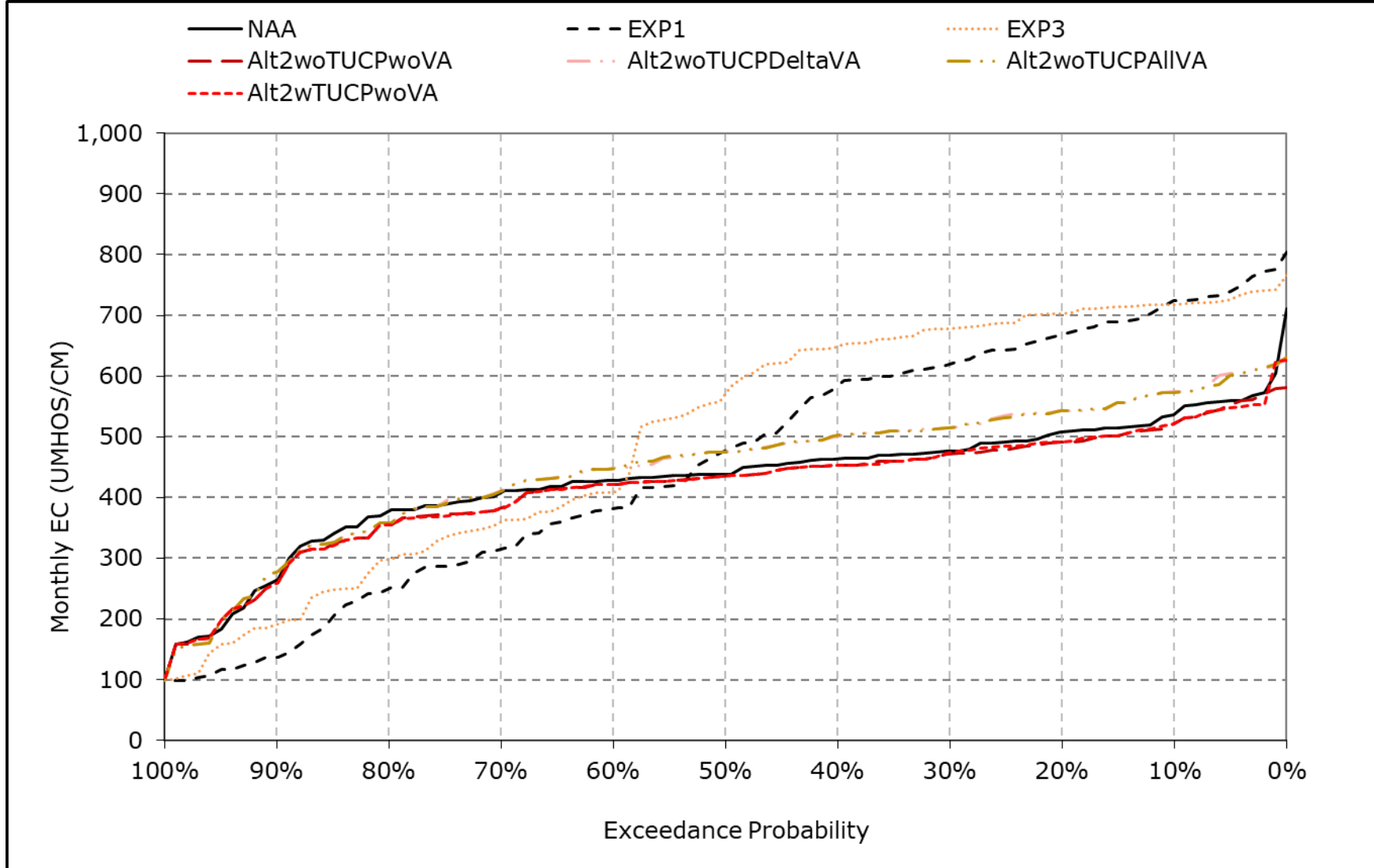
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-9. Victoria Canal, March EC**



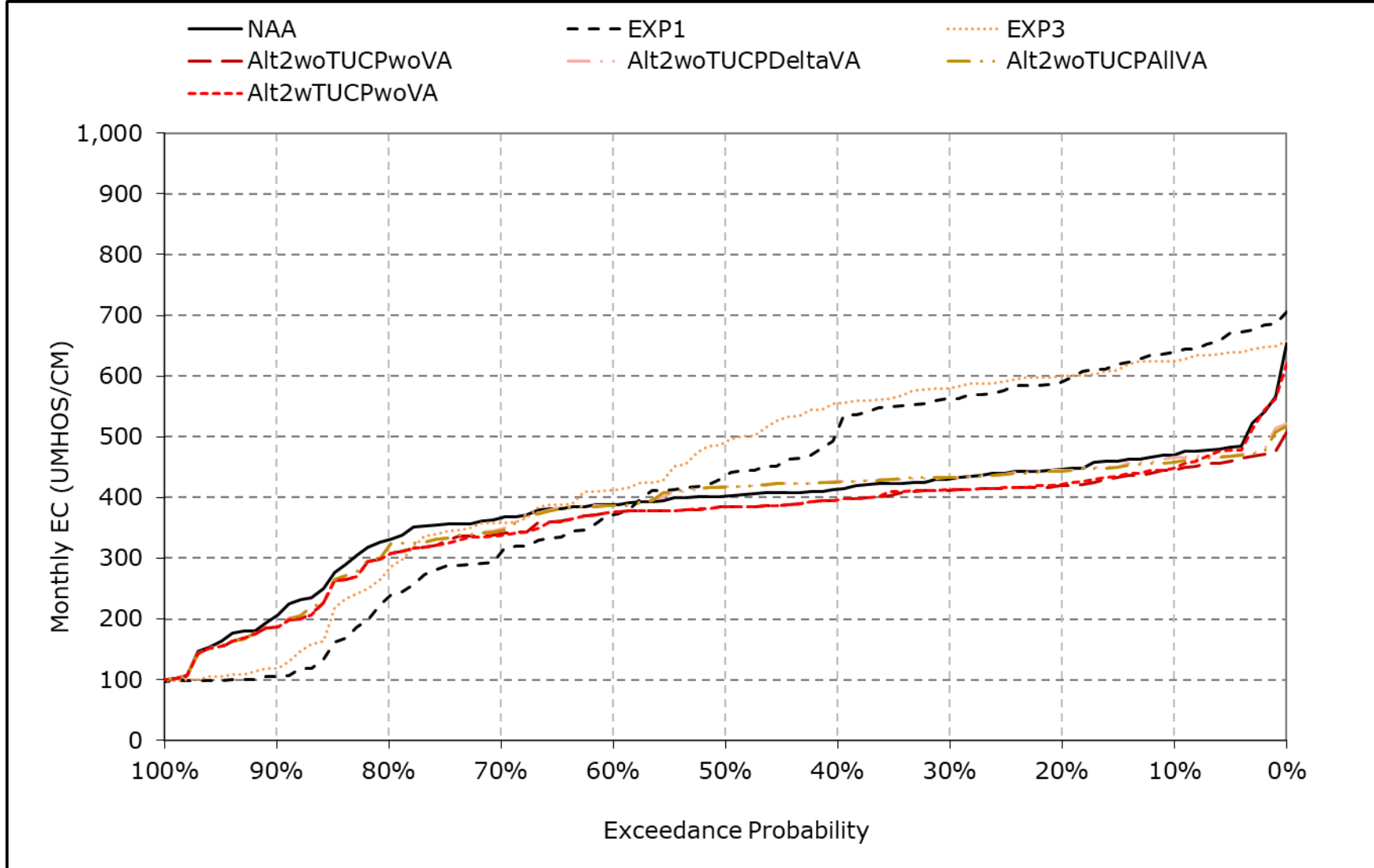
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-10. Victoria Canal, April EC**



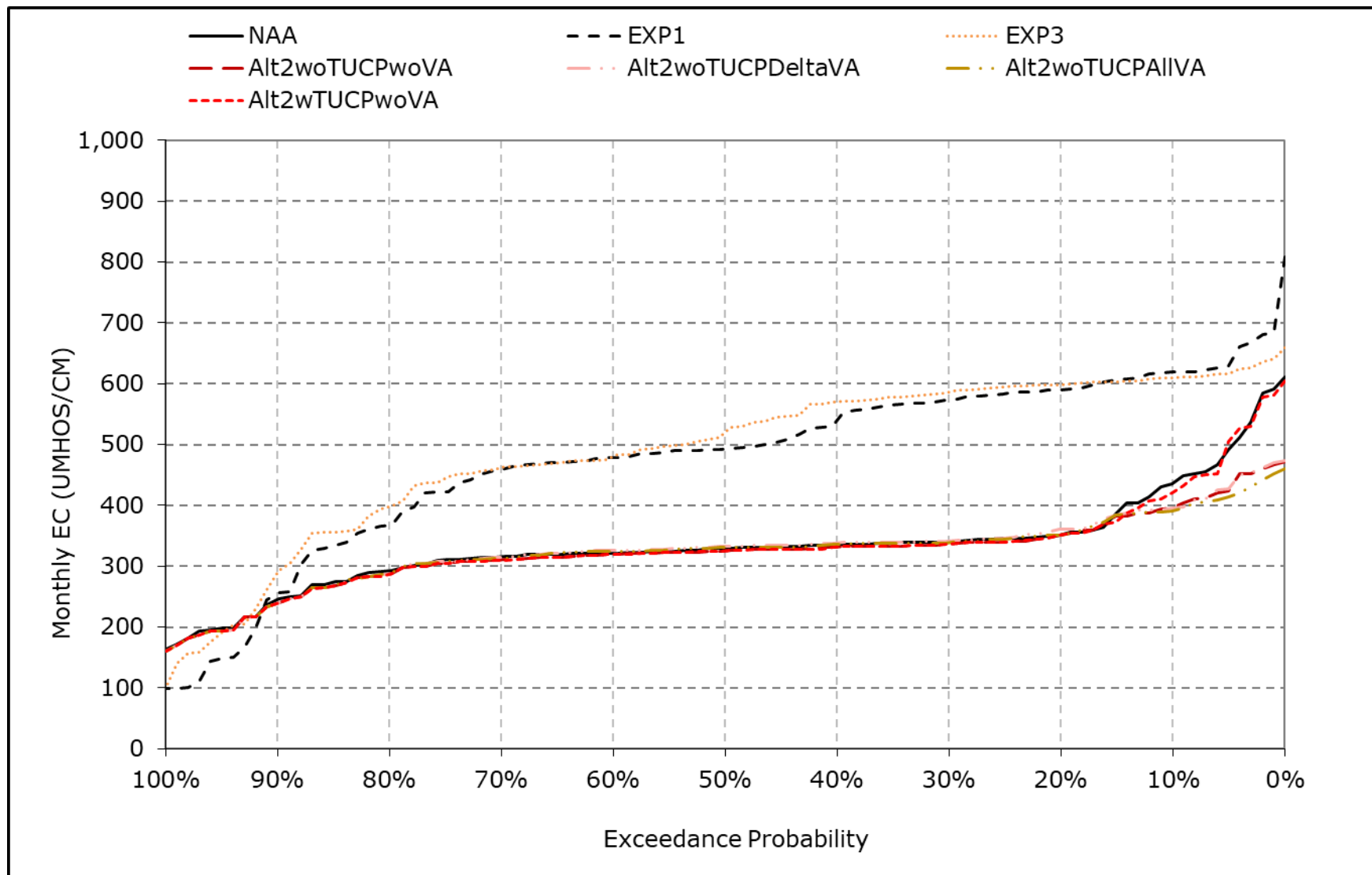
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-11. Victoria Canal, May EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

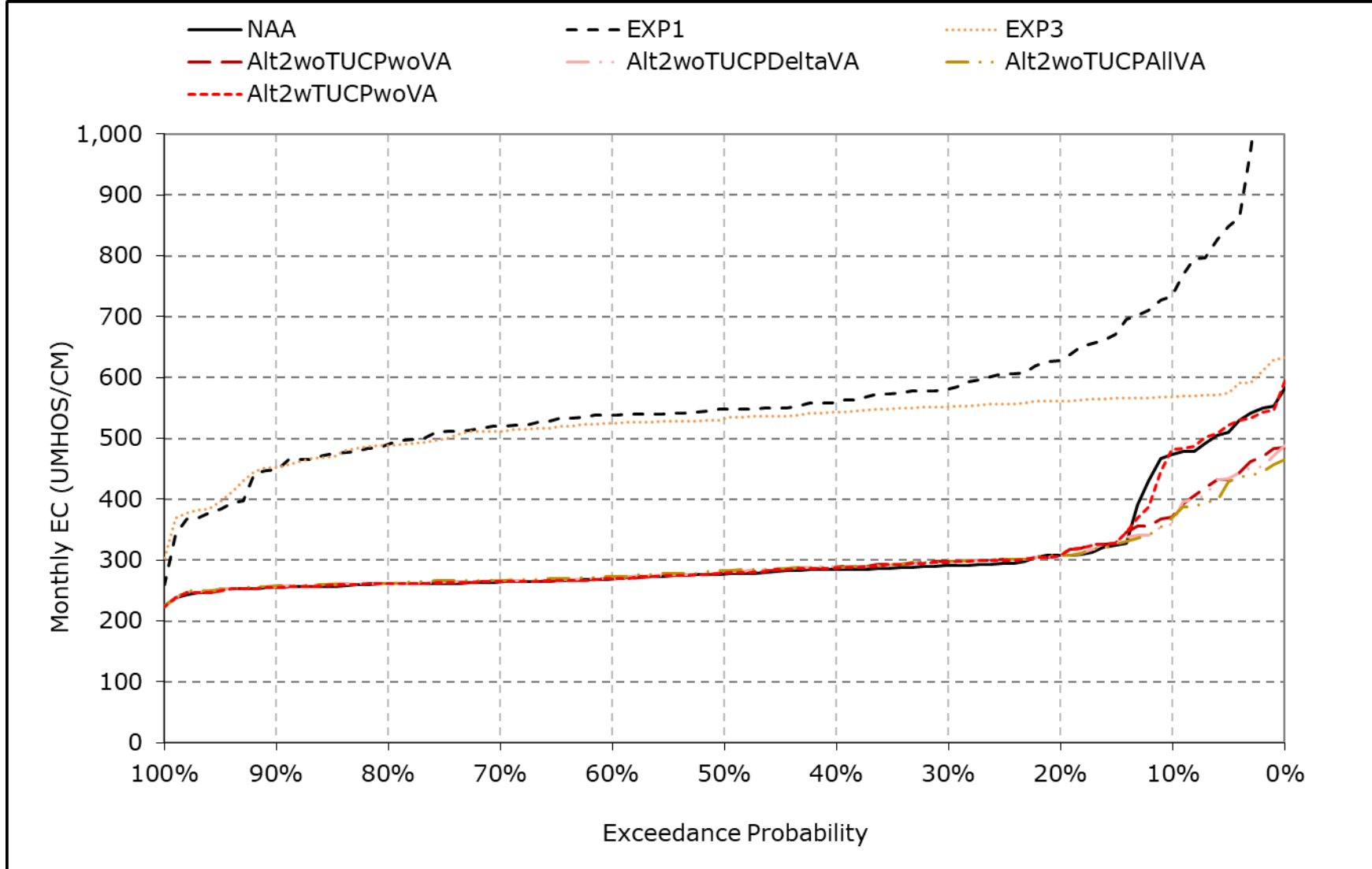
**Figure F.2.5-19-12. Victoria Canal, June EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

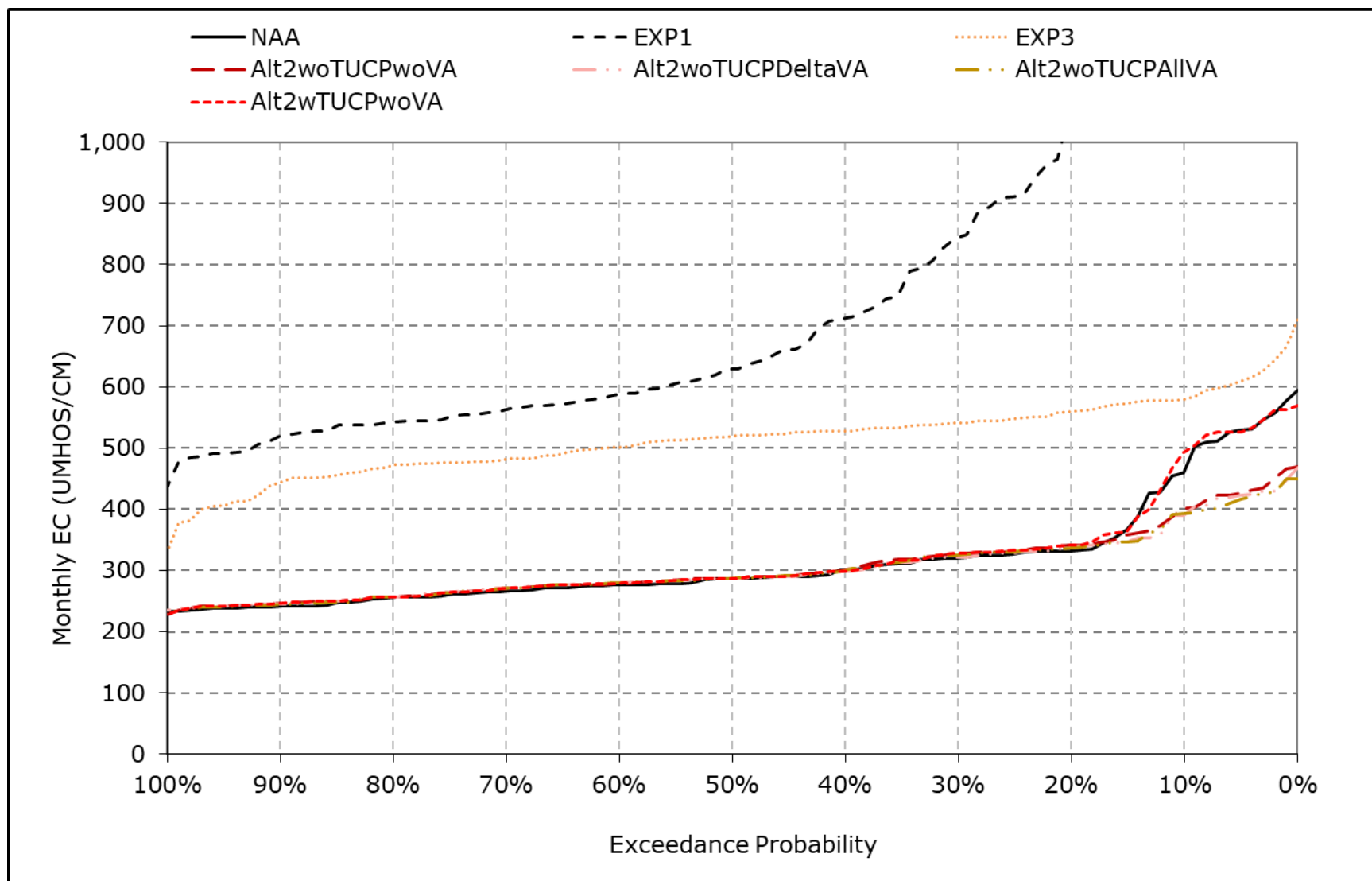


**Figure F.2.5-19-13. Victoria Canal, July EC**



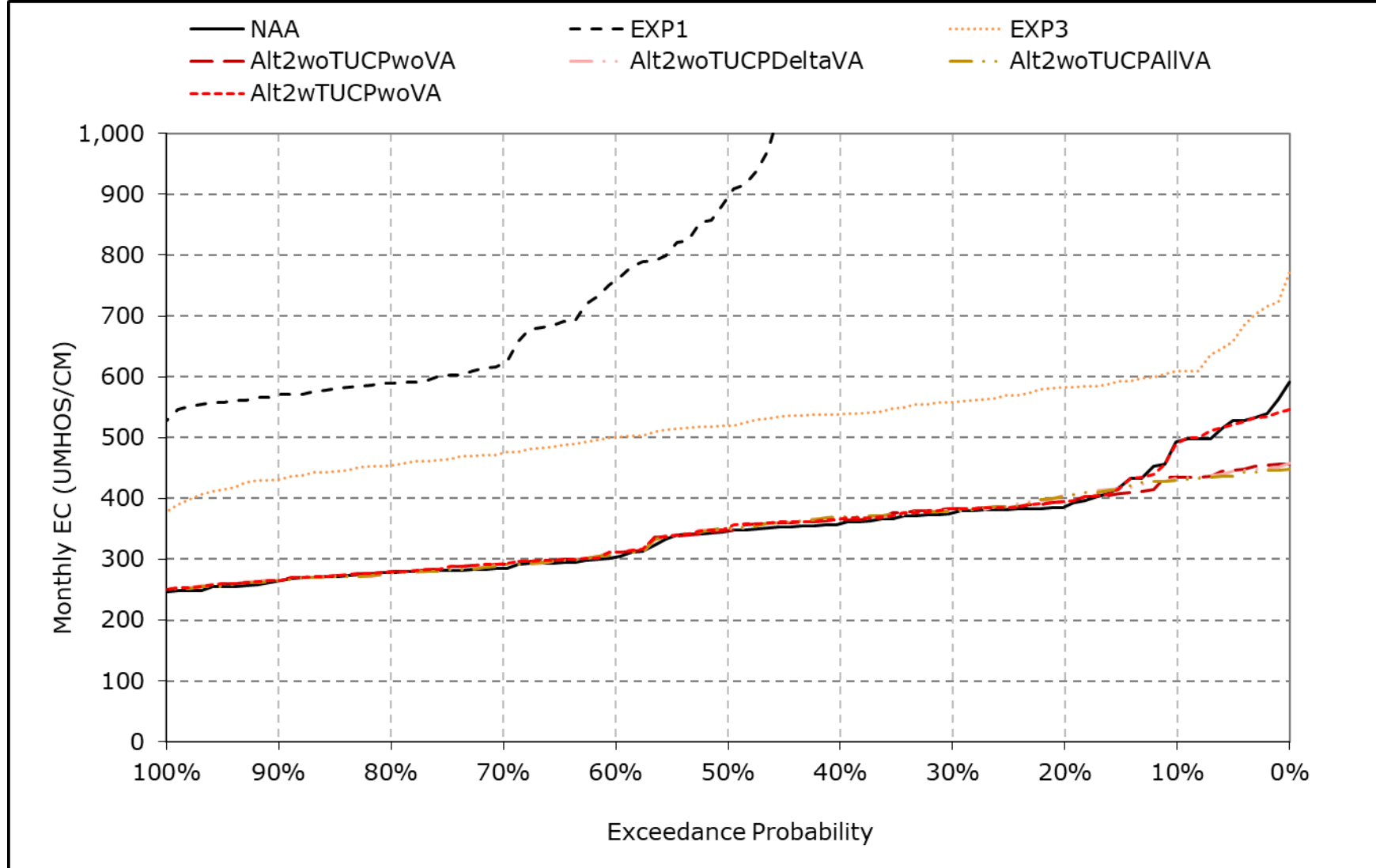
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-14. Victoria Canal, August EC**



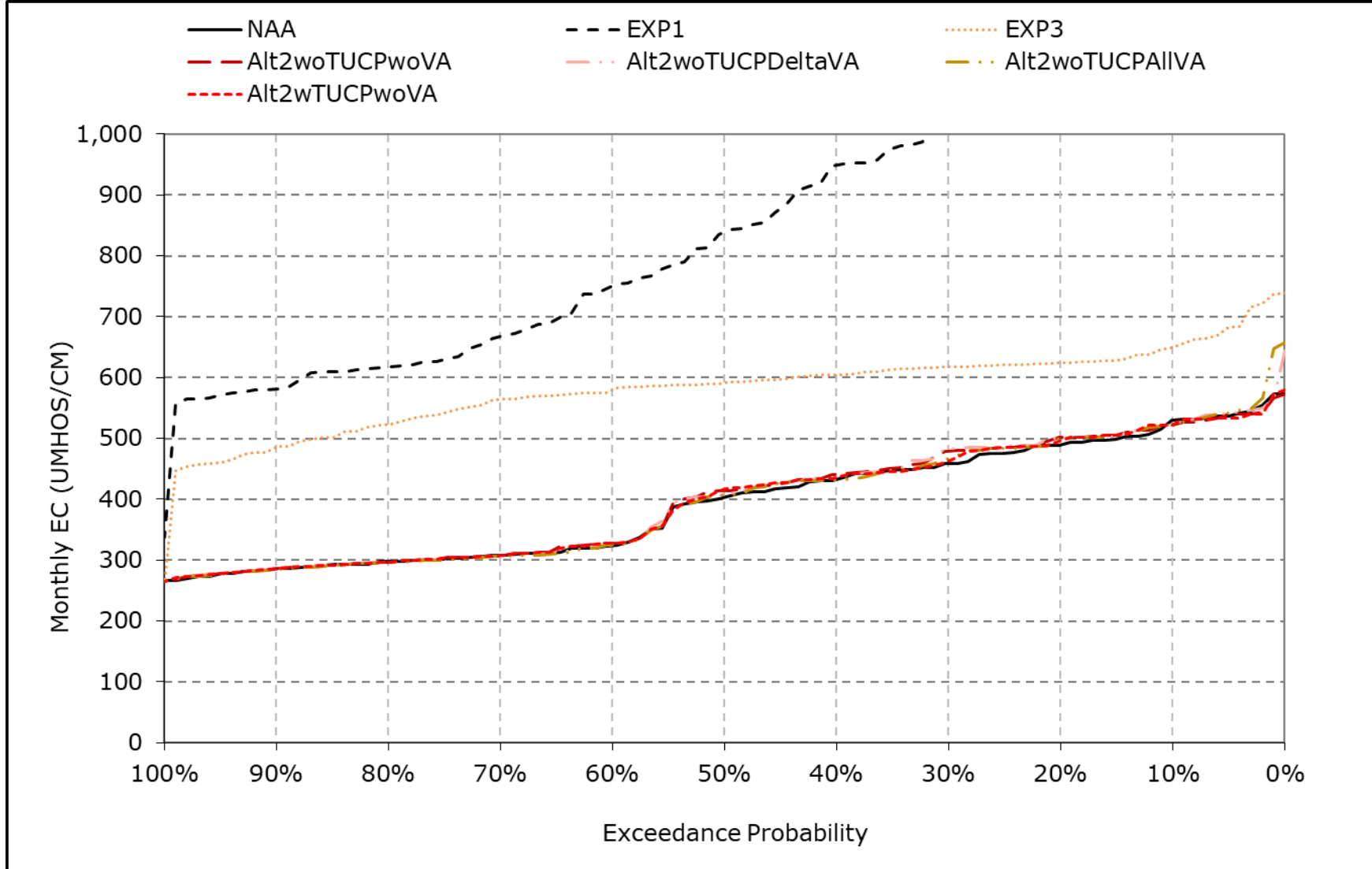
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-15. Victoria Canal, September EC**



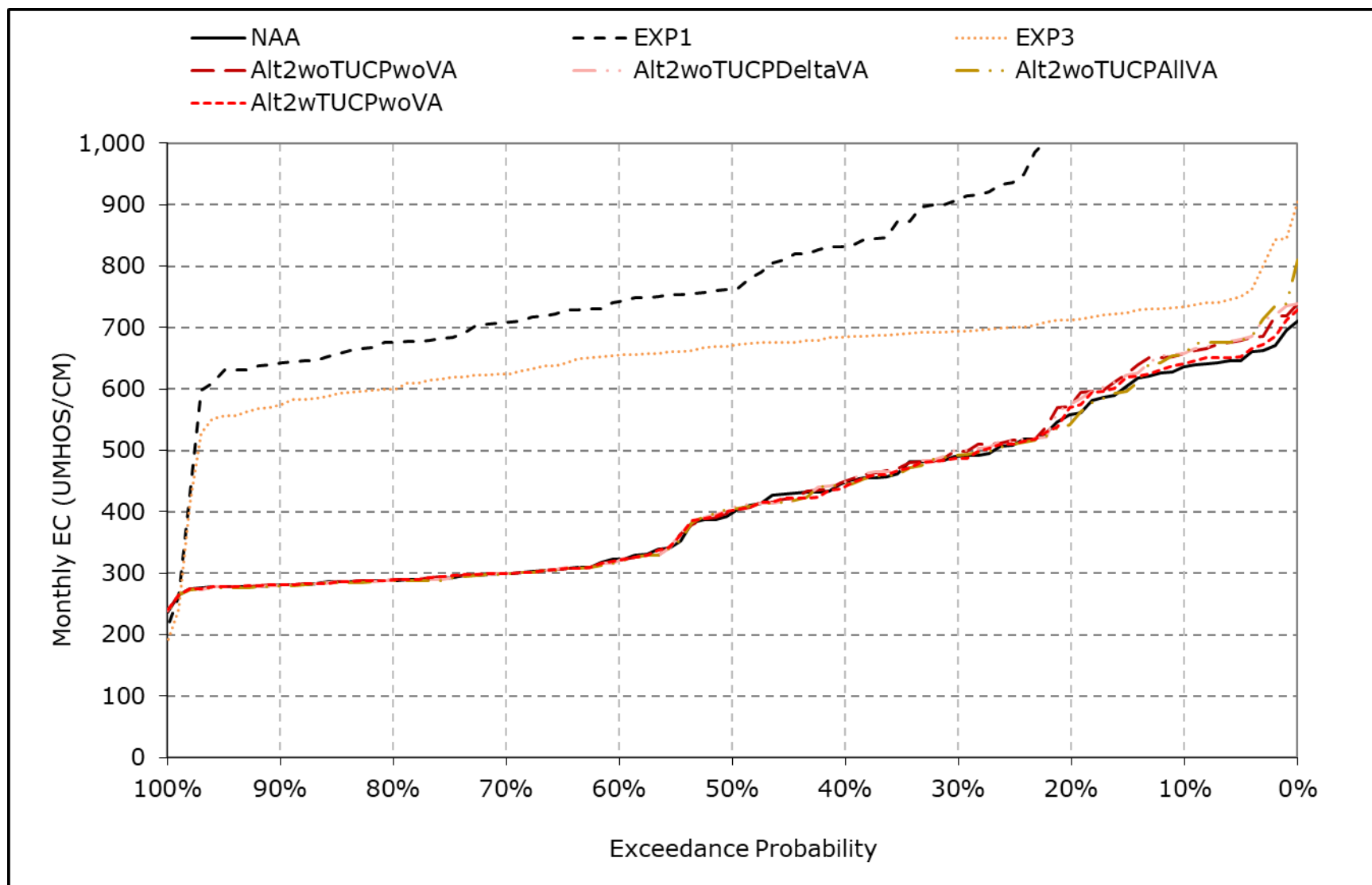
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-16. Victoria Canal, October EC**



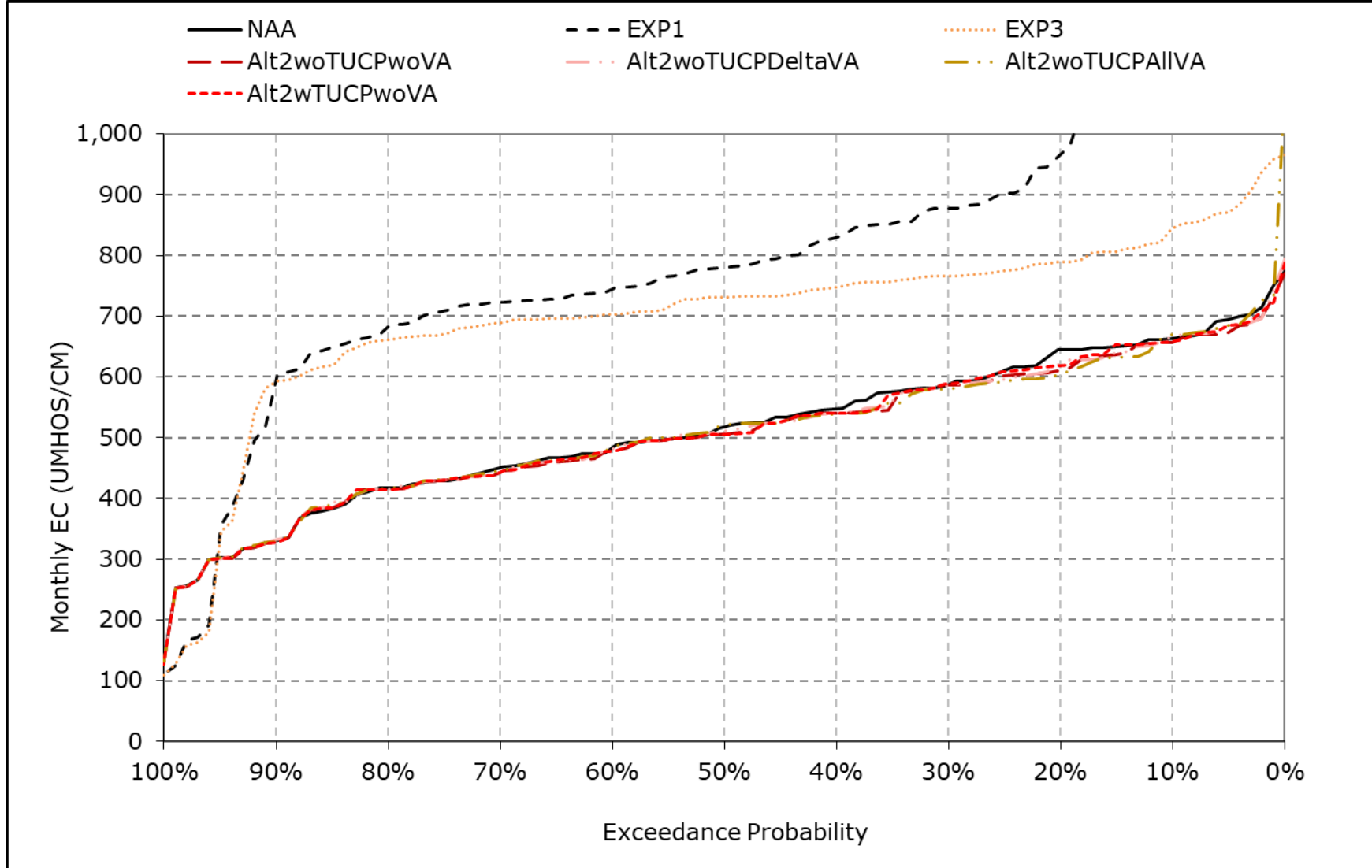
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-17. Victoria Canal, November EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.5-19-18. Victoria Canal, December EC**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



— BUREAU OF —  
RECLAMATION

# **Appendix F: Modeling**

**Attachment 2-6, DSM2 – X2**

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The following results of the DSM2 QUAL model with 2022 Median climate conditions and 15 cm sea level rise are included for salinity results at key project locations for the following alternatives:

- No Action Alternative 090723 (NAA)
- EXP1 090623 (EXP1)
- EXP3 090623 (EXP3)
- Alt2woTUCPwoVA 090723 (Alt2woTUCPwoVA)
- Alt2woTUCPDeltaVA 090723 (Alt2woTUCPDeltaVA)
- Alt2woTUCPAIIVA 090723 (Alt2woTUCPAIIVA)
- Alt2wTUCPwoVA 090723 (Alt2wTUCPwoVA)

| Section | Output Parameters | Table Numbers             | Figure Numbers          |
|---------|-------------------|---------------------------|-------------------------|
| X2      | X2 Distance       | F.2.6-1-1a to F.2.6-1-10c | F.2.6-1-1 to F.2.6-1-18 |

#### Report formats

- Monthly tables include a comparison of an alternative and the baseline (NAA, and EXP1) (exceedance values, long-term average, and average by water year type) by subtracting the values in the NAA or EXP1 table (the table presented at the top of the page) from the values in the alternative table (the second table from the top of the page).
- Monthly pattern charts (long-term average and average by water year type) including all alternatives.
- Monthly exceedance charts (all months) including all alternatives.

**Table F.2.6-1-1a. X2, NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 93  | 93  | 89  | 87  | 80  | 78  | 83  | 87  | 90  | 91  | 93  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 85  | 75  | 73  | 78  | 80  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 80  | 68  | 67  | 72  | 78  | 82  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 65  | 69  | 77  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 83  | 68  | 62  | 63  | 66  | 73  | 80  | 83  | 86  | 89  |
| 60% Exceedance                              | 80  | 85  | 76  | 64  | 58  | 59  | 64  | 70  | 79  | 81  | 83  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 79  | 83  | 80  |
| 80% Exceedance                              | 79  | 84  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 82  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 69  | 78  | 82  | 79  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 64  | 64  | 68  | 72  | 79  | 83  | 86  | 86  |
| Wet Water Years (28%)                       | 79  | 80  | 74  | 56  | 54  | 55  | 58  | 63  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 62  | 68  | 77  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 89  | 74  | 70  | 66  | 64  | 68  | 72  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 78  | 79  | 69  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 83  | 77  | 77  | 84  | 87  | 90  | 92  | 93  | 93  |

**Table F.2.6-1-1b. X2, Alt2woTUCPwoVA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 94  | 92  | 90  | 87  | 78  | 76  | 80  | 83  | 85  | 88  | 92  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 83  | 74  | 72  | 76  | 80  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 79  | 68  | 67  | 72  | 80  | 82  | 85  | 90  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 74  | 65  | 65  | 69  | 78  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 82  | 69  | 62  | 63  | 67  | 75  | 80  | 83  | 86  | 90  |
| 60% Exceedance                              | 80  | 85  | 77  | 64  | 57  | 59  | 64  | 71  | 79  | 81  | 84  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 62  | 67  | 78  | 80  | 83  | 80  |
| 80% Exceedance                              | 79  | 83  | 63  | 55  | 53  | 54  | 58  | 62  | 74  | 79  | 83  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 70  | 78  | 82  | 80  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 63  | 63  | 67  | 73  | 79  | 83  | 86  | 87  |
| Wet Water Years (28%)                       | 79  | 80  | 75  | 56  | 54  | 55  | 58  | 64  | 72  | 78  | 82  | 80  |
| Above Normal Years (14%)                    | 79  | 83  | 77  | 63  | 57  | 57  | 62  | 70  | 77  | 80  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 88  | 73  | 70  | 66  | 64  | 68  | 74  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 77  | 79  | 68  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 92  | 85  | 82  | 76  | 76  | 80  | 85  | 88  | 89  | 92  | 93  |

**Table F.2.6-1-1c. X2, Alt2woTUCPwoVA minus NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | -1  | 0   | 0   | -2  | -3  | -3  | -4  | -5  | -3  | -1  | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | -1  | -1  | -2  | -2  | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 1   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | -1  | 0   | 0   | 0   | 1   | 2   | 0   | 0   | 0   | 1   |
| 60% Exceedance                              | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | -1  | -1  | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | -1  | 0   | 0   | -1  | -2  | -4  | -3  | -2  | -2  | -1  | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.6-1-2a. X2, NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 93  | 93  | 89  | 87  | 80  | 78  | 83  | 87  | 90  | 91  | 93  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 85  | 75  | 73  | 78  | 80  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 80  | 68  | 67  | 72  | 78  | 82  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 65  | 69  | 77  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 83  | 68  | 62  | 63  | 66  | 73  | 80  | 83  | 86  | 89  |
| 60% Exceedance                              | 80  | 85  | 76  | 64  | 58  | 59  | 64  | 70  | 79  | 81  | 83  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 79  | 83  | 80  |
| 80% Exceedance                              | 79  | 84  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 82  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 69  | 78  | 82  | 79  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 64  | 64  | 68  | 72  | 79  | 83  | 86  | 86  |
| Wet Water Years (28%)                       | 79  | 80  | 74  | 56  | 54  | 55  | 58  | 63  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 62  | 68  | 77  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 89  | 74  | 70  | 66  | 64  | 68  | 72  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 78  | 79  | 69  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 83  | 77  | 77  | 84  | 87  | 90  | 92  | 93  | 93  |

**Table F.2.6-1-2b. X2, Alt2woTUCPDeltaVA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 94  | 92  | 89  | 87  | 80  | 75  | 79  | 83  | 85  | 88  | 92  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 84  | 74  | 71  | 75  | 80  | 84  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 79  | 68  | 66  | 72  | 79  | 83  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 89  | 86  | 73  | 65  | 65  | 68  | 77  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 82  | 69  | 62  | 62  | 66  | 75  | 80  | 83  | 86  | 90  |
| 60% Exceedance                              | 80  | 85  | 77  | 64  | 57  | 59  | 63  | 71  | 79  | 81  | 84  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 80  | 83  | 80  |
| 80% Exceedance                              | 79  | 83  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 83  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 70  | 78  | 82  | 80  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 63  | 63  | 67  | 73  | 79  | 83  | 86  | 87  |
| Wet Water Years (28%)                       | 79  | 80  | 75  | 56  | 54  | 55  | 58  | 64  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 62  | 69  | 77  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 88  | 73  | 70  | 66  | 63  | 67  | 73  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 77  | 79  | 68  | 67  | 71  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 92  | 85  | 82  | 77  | 76  | 80  | 85  | 88  | 89  | 92  | 93  |

**Table F.2.6-1-2c. X2, Alt2woTUCPDeltaVA minus NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | -1  | 0   | 0   | 0   | -3  | -3  | -4  | -5  | -3  | -1  | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | -1  | -1  | -3  | -3  | 0   | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | -1  | 0   | 0   | -1  | 1   | 1   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | -1  | 0   | 1   | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 2   | 0   | 0   | 0   | 1   |
| 60% Exceedance                              | 0   | 0   | 1   | 0   | 0   | -1  | 0   | 1   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 1   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | -1  | -1  | -1  | 0   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | -1  | 0   | 0   | 0   | -2  | -4  | -3  | -2  | -3  | -1  | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.6-1-3a. X2, NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 93  | 93  | 89  | 87  | 80  | 78  | 83  | 87  | 90  | 91  | 93  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 85  | 75  | 73  | 78  | 80  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 80  | 68  | 67  | 72  | 78  | 82  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 65  | 69  | 77  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 83  | 68  | 62  | 63  | 66  | 73  | 80  | 83  | 86  | 89  |
| 60% Exceedance                              | 80  | 85  | 76  | 64  | 58  | 59  | 64  | 70  | 79  | 81  | 83  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 79  | 83  | 80  |
| 80% Exceedance                              | 79  | 84  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 82  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 69  | 78  | 82  | 79  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 64  | 64  | 68  | 72  | 79  | 83  | 86  | 86  |
| Wet Water Years (28%)                       | 79  | 80  | 74  | 56  | 54  | 55  | 58  | 63  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 62  | 68  | 77  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 89  | 74  | 70  | 66  | 64  | 68  | 72  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 78  | 79  | 69  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 83  | 77  | 77  | 84  | 87  | 90  | 92  | 93  | 93  |

**Table F.2.6-1-3b. X2, Alt2woTUCPALIVA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 94  | 93  | 89  | 87  | 80  | 75  | 79  | 82  | 85  | 88  | 92  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 84  | 74  | 70  | 74  | 79  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 79  | 68  | 66  | 70  | 78  | 82  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 64  | 67  | 76  | 81  | 85  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 82  | 69  | 62  | 62  | 65  | 72  | 80  | 83  | 86  | 90  |
| 60% Exceedance                              | 80  | 85  | 77  | 64  | 57  | 59  | 63  | 69  | 79  | 80  | 84  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 80  | 83  | 80  |
| 80% Exceedance                              | 79  | 83  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 83  | 80  |
| 90% Exceedance                              | 79  | 77  | 56  | 53  | 52  | 53  | 55  | 59  | 70  | 78  | 82  | 80  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 63  | 63  | 66  | 72  | 79  | 83  | 86  | 87  |
| Wet Water Years (28%)                       | 79  | 80  | 75  | 56  | 54  | 55  | 58  | 63  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 61  | 68  | 76  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 88  | 73  | 70  | 66  | 63  | 66  | 71  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 77  | 79  | 68  | 67  | 70  | 75  | 81  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 83  | 77  | 76  | 79  | 84  | 87  | 89  | 92  | 93  |

**Table F.2.6-1-3c. X2, Alt2woTUCPALIVA minus NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | 0   | 0   | -3  | -4  | -4  | -6  | -3  | -1  | 0   |
| 20% Exceedance                              | 0   | 0   | 0   | -1  | -1  | -3  | -4  | -1  | 0   | 0   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | -1  | 0   | 0   | -2  | 0   | 0   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | -1  | 0   | 1   | 0   | -1  | -2  | -1  | 0   | 0   | -1  | 0   |
| 50% Exceedance                              | 0   | 0   | 0   | 1   | 0   | -1  | -1  | -1  | 0   | 0   | 0   | 1   |
| 60% Exceedance                              | 0   | 0   | 1   | 0   | 0   | 0   | -1  | -1  | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | -1  | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -1  | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | -1  | -1  | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | -1  | -2  | -1  | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | -1  | -1  | -1  | -2  | -1  | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | 0   | 0   | -2  | -4  | -4  | -3  | -3  | -1  | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.6-1-4a. X2, NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 93  | 93  | 89  | 87  | 80  | 78  | 83  | 87  | 90  | 91  | 93  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 85  | 75  | 73  | 78  | 80  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 80  | 68  | 67  | 72  | 78  | 82  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 65  | 69  | 77  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 83  | 68  | 62  | 63  | 66  | 73  | 80  | 83  | 86  | 89  |
| 60% Exceedance                              | 80  | 85  | 76  | 64  | 58  | 59  | 64  | 70  | 79  | 81  | 83  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 79  | 83  | 80  |
| 80% Exceedance                              | 79  | 84  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 82  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 69  | 78  | 82  | 79  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 64  | 64  | 68  | 72  | 79  | 83  | 86  | 86  |
| Wet Water Years (28%)                       | 79  | 80  | 74  | 56  | 54  | 55  | 58  | 63  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 62  | 68  | 77  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 89  | 74  | 70  | 66  | 64  | 68  | 72  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 78  | 79  | 69  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 83  | 77  | 77  | 84  | 87  | 90  | 92  | 93  | 93  |

**Table F.2.6-1-4b. X2, Alt2wTUCPwoVA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 93  | 93  | 90  | 86  | 78  | 79  | 81  | 86  | 91  | 92  | 93  | 93  |
| 20% Exceedance                              | 93  | 92  | 89  | 83  | 74  | 73  | 78  | 80  | 83  | 87  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 79  | 67  | 67  | 73  | 80  | 83  | 85  | 90  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 65  | 69  | 78  | 82  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 82  | 68  | 62  | 63  | 67  | 75  | 80  | 83  | 86  | 90  |
| 60% Exceedance                              | 80  | 85  | 77  | 64  | 57  | 59  | 64  | 71  | 79  | 81  | 84  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 62  | 67  | 78  | 80  | 83  | 80  |
| 80% Exceedance                              | 79  | 83  | 63  | 55  | 53  | 54  | 58  | 62  | 74  | 79  | 83  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 69  | 78  | 82  | 80  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 63  | 64  | 68  | 73  | 79  | 83  | 87  | 87  |
| Wet Water Years (28%)                       | 79  | 80  | 74  | 56  | 54  | 55  | 58  | 64  | 72  | 78  | 82  | 80  |
| Above Normal Years (14%)                    | 79  | 83  | 77  | 63  | 57  | 57  | 62  | 70  | 77  | 80  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 88  | 73  | 70  | 65  | 64  | 68  | 74  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 78  | 79  | 68  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 81  | 76  | 77  | 83  | 87  | 90  | 92  | 93  | 93  |

**Table F.2.6-1-4c. X2, Alt2wTUCPwoVA minus NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 0   | 0   | 0   | -1  | -2  | 0   | -1  | -1  | 1   | 1   | 0   | 0   |
| 20% Exceedance                              | 0   | 0   | 1   | -1  | -1  | 0   | 0   | 0   | 0   | 1   | 0   | 0   |
| 30% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   |
| 40% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | -1  | 0   |
| 50% Exceedance                              | 0   | 0   | -1  | 0   | 0   | 0   | 1   | 2   | 0   | 0   | 0   | 0   |
| 60% Exceedance                              | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| 70% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| 80% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   | 0   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Wet Water Years (28%)                       | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 0   | 0   | 0   | 0   |
| Below Normal Years (18%)                    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Dry Water Years (24%)                       | 0   | 0   | 0   | 0   | -1  | 0   | 0   | 1   | 0   | 0   | 0   | 0   |
| Critical Water Years (16%)                  | 0   | 0   | 0   | -1  | -1  | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.6-1-5a. X2, NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 93  | 93  | 89  | 87  | 80  | 78  | 83  | 87  | 90  | 91  | 93  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 85  | 75  | 73  | 78  | 80  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 80  | 68  | 67  | 72  | 78  | 82  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 65  | 69  | 77  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 83  | 68  | 62  | 63  | 66  | 73  | 80  | 83  | 86  | 89  |
| 60% Exceedance                              | 80  | 85  | 76  | 64  | 58  | 59  | 64  | 70  | 79  | 81  | 83  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 79  | 83  | 80  |
| 80% Exceedance                              | 79  | 84  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 82  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 69  | 78  | 82  | 79  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 64  | 64  | 68  | 72  | 79  | 83  | 86  | 86  |
| Wet Water Years (28%)                       | 79  | 80  | 74  | 56  | 54  | 55  | 58  | 63  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 62  | 68  | 77  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 89  | 74  | 70  | 66  | 64  | 68  | 72  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 78  | 79  | 69  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 83  | 77  | 77  | 84  | 87  | 90  | 92  | 93  | 93  |

**Table F.2.6-1-5b. X2, EXP3, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 88  | 87  | 82  | 74  | 70  | 71  | 79  | 83  | 89  | 90  | 91  | 89  |
| 20% Exceedance                              | 85  | 83  | 78  | 71  | 67  | 67  | 75  | 81  | 88  | 89  | 90  | 88  |
| 30% Exceedance                              | 84  | 81  | 73  | 67  | 63  | 63  | 71  | 79  | 87  | 88  | 90  | 86  |
| 40% Exceedance                              | 82  | 80  | 67  | 63  | 61  | 61  | 68  | 74  | 84  | 86  | 89  | 85  |
| 50% Exceedance                              | 81  | 78  | 64  | 61  | 58  | 58  | 65  | 71  | 81  | 84  | 87  | 85  |
| 60% Exceedance                              | 80  | 76  | 61  | 58  | 55  | 57  | 61  | 67  | 78  | 83  | 86  | 83  |
| 70% Exceedance                              | 79  | 74  | 58  | 56  | 54  | 55  | 59  | 64  | 74  | 81  | 85  | 82  |
| 80% Exceedance                              | 78  | 71  | 55  | 54  | 53  | 53  | 56  | 60  | 68  | 78  | 83  | 80  |
| 90% Exceedance                              | 76  | 66  | 53  | 53  | 52  | 53  | 54  | 56  | 63  | 75  | 81  | 77  |
| Full Simulation Period Average <sup>a</sup> | 81  | 77  | 66  | 63  | 60  | 60  | 66  | 71  | 78  | 83  | 87  | 84  |
| Wet Water Years (28%)                       | 77  | 71  | 61  | 54  | 53  | 54  | 57  | 60  | 68  | 77  | 82  | 79  |
| Above Normal Years (14%)                    | 80  | 76  | 63  | 57  | 55  | 55  | 61  | 66  | 75  | 81  | 85  | 82  |
| Below Normal Years (18%)                    | 81  | 77  | 65  | 61  | 61  | 60  | 66  | 72  | 81  | 84  | 87  | 84  |
| Dry Water Years (24%)                       | 82  | 78  | 69  | 69  | 63  | 63  | 70  | 77  | 84  | 87  | 90  | 86  |
| Critical Water Years (16%)                  | 88  | 86  | 76  | 74  | 70  | 71  | 80  | 84  | 88  | 91  | 92  | 89  |

**Table F.2.6-1-5c. X2, EXP3 minus NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -6  | -6  | -7  | -13 | -11 | -7  | -3  | -3  | -2  | -1  | -1  | -4  |
| 20% Exceedance                              | -7  | -9  | -10 | -14 | -8  | -6  | -3  | 2   | 4   | 3   | 1   | -5  |
| 30% Exceedance                              | -8  | -10 | -15 | -12 | -5  | -4  | -1  | 1   | 5   | 3   | 0   | -5  |
| 40% Exceedance                              | -9  | -10 | -19 | -10 | -4  | -4  | -1  | -3  | 3   | 2   | 0   | -6  |
| 50% Exceedance                              | -9  | -8  | -19 | -7  | -4  | -4  | -2  | -2  | 1   | 2   | 1   | -5  |
| 60% Exceedance                              | 0   | -9  | -15 | -6  | -3  | -3  | -2  | -3  | -1  | 2   | 3   | 3   |
| 70% Exceedance                              | -1  | -11 | -10 | -3  | -1  | -1  | -3  | -2  | -4  | 2   | 2   | 2   |
| 80% Exceedance                              | -2  | -13 | -8  | -2  | -1  | -1  | -1  | -2  | -6  | -1  | 1   | 1   |
| 90% Exceedance                              | -3  | -12 | -3  | -1  | 0   | 0   | -1  | -2  | -7  | -3  | -1  | -2  |
| Full Simulation Period Average <sup>a</sup> | -5  | -9  | -11 | -7  | -4  | -3  | -2  | -2  | -1  | 1   | 0   | -3  |
| Wet Water Years (28%)                       | -1  | -9  | -14 | -2  | -1  | -1  | -1  | -2  | -4  | -1  | 0   | 0   |
| Above Normal Years (14%)                    | 1   | -7  | -14 | -5  | -2  | -1  | -1  | -2  | -2  | 1   | 2   | 3   |
| Below Normal Years (18%)                    | -9  | -12 | -9  | -9  | -5  | -4  | -2  | 0   | 1   | 2   | 1   | -6  |
| Dry Water Years (24%)                       | -8  | -10 | -9  | -11 | -6  | -5  | -2  | 0   | 3   | 2   | 0   | -5  |
| Critical Water Years (16%)                  | -6  | -7  | -9  | -8  | -7  | -6  | -4  | -4  | -2  | -1  | -1  | -4  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.6-1-6a. X2, EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 100 | 99  | 89  | 76  | 68  | 67  | 73  | 85  | 96  | 101 | 102 | 100 |
| 20% Exceedance                              | 99  | 94  | 84  | 72  | 65  | 63  | 67  | 80  | 93  | 100 | 102 | 99  |
| 30% Exceedance                              | 96  | 90  | 77  | 69  | 60  | 59  | 65  | 75  | 89  | 99  | 101 | 99  |
| 40% Exceedance                              | 93  | 86  | 74  | 63  | 59  | 59  | 63  | 71  | 86  | 97  | 100 | 98  |
| 50% Exceedance                              | 89  | 83  | 68  | 60  | 57  | 56  | 60  | 67  | 82  | 95  | 100 | 96  |
| 60% Exceedance                              | 85  | 81  | 64  | 57  | 54  | 55  | 57  | 64  | 78  | 93  | 99  | 93  |
| 70% Exceedance                              | 82  | 80  | 61  | 56  | 54  | 54  | 56  | 61  | 73  | 90  | 97  | 90  |
| 80% Exceedance                              | 81  | 73  | 56  | 53  | 53  | 53  | 54  | 58  | 67  | 85  | 94  | 87  |
| 90% Exceedance                              | 79  | 65  | 53  | 52  | 52  | 53  | 53  | 55  | 62  | 79  | 90  | 84  |
| Full Simulation Period Average <sup>a</sup> | 91  | 86  | 71  | 63  | 59  | 58  | 62  | 69  | 80  | 92  | 100 | 93  |
| Wet Water Years (28%)                       | 81  | 76  | 67  | 54  | 53  | 54  | 55  | 59  | 67  | 82  | 91  | 85  |
| Above Normal Years (14%)                    | 85  | 80  | 68  | 57  | 54  | 54  | 57  | 63  | 75  | 90  | 97  | 91  |
| Below Normal Years (18%)                    | 90  | 83  | 68  | 62  | 59  | 58  | 61  | 70  | 83  | 95  | 103 | 95  |
| Dry Water Years (24%)                       | 92  | 84  | 73  | 68  | 61  | 60  | 64  | 73  | 87  | 98  | 106 | 98  |
| Critical Water Years (16%)                  | 115 | 118 | 80  | 77  | 69  | 68  | 75  | 85  | 94  | 100 | 103 | 100 |

**Table F.2.6-1-6b. X2, Alt2woTUCPwoVA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 94  | 92  | 90  | 87  | 78  | 76  | 80  | 83  | 85  | 88  | 92  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 83  | 74  | 72  | 76  | 80  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 79  | 68  | 67  | 72  | 80  | 82  | 85  | 90  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 74  | 65  | 65  | 69  | 78  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 82  | 69  | 62  | 63  | 67  | 75  | 80  | 83  | 86  | 90  |
| 60% Exceedance                              | 80  | 85  | 77  | 64  | 57  | 59  | 64  | 71  | 79  | 81  | 84  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 62  | 67  | 78  | 80  | 83  | 80  |
| 80% Exceedance                              | 79  | 83  | 63  | 55  | 53  | 54  | 58  | 62  | 74  | 79  | 83  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 70  | 78  | 82  | 80  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 63  | 63  | 67  | 73  | 79  | 83  | 86  | 87  |
| Wet Water Years (28%)                       | 79  | 80  | 75  | 56  | 54  | 55  | 58  | 64  | 72  | 78  | 82  | 80  |
| Above Normal Years (14%)                    | 79  | 83  | 77  | 63  | 57  | 57  | 62  | 70  | 77  | 80  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 88  | 73  | 70  | 66  | 64  | 68  | 74  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 77  | 79  | 68  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 92  | 85  | 82  | 76  | 76  | 80  | 85  | 88  | 89  | 92  | 93  |

**Table F.2.6-1-6c. X2, Alt2woTUCPwoVA minus EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -6  | -7  | 1   | 11  | 10  | 8   | 7   | -3  | -11 | -12 | -11 | -7  |
| 20% Exceedance                              | -6  | -2  | 4   | 12  | 9   | 8   | 9   | 0   | -10 | -13 | -11 | -7  |
| 30% Exceedance                              | -5  | 2   | 10  | 10  | 8   | 7   | 7   | 5   | -7  | -14 | -11 | -7  |
| 40% Exceedance                              | -1  | 4   | 12  | 11  | 6   | 6   | 7   | 7   | -5  | -13 | -12 | -7  |
| 50% Exceedance                              | 1   | 2   | 14  | 8   | 5   | 6   | 7   | 8   | -2  | -13 | -14 | -6  |
| 60% Exceedance                              | -5  | 4   | 12  | 7   | 3   | 4   | 7   | 7   | 1   | -12 | -16 | -12 |
| 70% Exceedance                              | -3  | 5   | 7   | 4   | 1   | 2   | 6   | 6   | 5   | -10 | -14 | -9  |
| 80% Exceedance                              | -1  | 11  | 6   | 2   | 1   | 1   | 4   | 5   | 7   | -6  | -11 | -7  |
| 90% Exceedance                              | 0   | 13  | 3   | 1   | 0   | 0   | 2   | 4   | 8   | -1  | -7  | -4  |
| Full Simulation Period Average <sup>a</sup> | -5  | 0   | 6   | 6   | 5   | 5   | 6   | 4   | -1  | -10 | -13 | -7  |
| Wet Water Years (28%)                       | -2  | 5   | 7   | 2   | 1   | 2   | 3   | 5   | 5   | -5  | -9  | -6  |
| Above Normal Years (14%)                    | -6  | 2   | 9   | 5   | 2   | 2   | 5   | 6   | 2   | -11 | -14 | -11 |
| Below Normal Years (18%)                    | 0   | 5   | 6   | 8   | 6   | 6   | 8   | 4   | -3  | -12 | -17 | -5  |
| Dry Water Years (24%)                       | -1  | 3   | 5   | 10  | 7   | 8   | 8   | 4   | -6  | -12 | -17 | -6  |
| Critical Water Years (16%)                  | -22 | -26 | 5   | 5   | 7   | 8   | 5   | 0   | -7  | -11 | -11 | -7  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.6-1-7a. X2, EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 100 | 99  | 89  | 76  | 68  | 67  | 73  | 85  | 96  | 101 | 102 | 100 |
| 20% Exceedance                              | 99  | 94  | 84  | 72  | 65  | 63  | 67  | 80  | 93  | 100 | 102 | 99  |
| 30% Exceedance                              | 96  | 90  | 77  | 69  | 60  | 59  | 65  | 75  | 89  | 99  | 101 | 99  |
| 40% Exceedance                              | 93  | 86  | 74  | 63  | 59  | 59  | 63  | 71  | 86  | 97  | 100 | 98  |
| 50% Exceedance                              | 89  | 83  | 68  | 60  | 57  | 56  | 60  | 67  | 82  | 95  | 100 | 96  |
| 60% Exceedance                              | 85  | 81  | 64  | 57  | 54  | 55  | 57  | 64  | 78  | 93  | 99  | 93  |
| 70% Exceedance                              | 82  | 80  | 61  | 56  | 54  | 54  | 56  | 61  | 73  | 90  | 97  | 90  |
| 80% Exceedance                              | 81  | 73  | 56  | 53  | 53  | 53  | 54  | 58  | 67  | 85  | 94  | 87  |
| 90% Exceedance                              | 79  | 65  | 53  | 52  | 52  | 53  | 53  | 55  | 62  | 79  | 90  | 84  |
| Full Simulation Period Average <sup>a</sup> | 91  | 86  | 71  | 63  | 59  | 58  | 62  | 69  | 80  | 92  | 100 | 93  |
| Wet Water Years (28%)                       | 81  | 76  | 67  | 54  | 53  | 54  | 55  | 59  | 67  | 82  | 91  | 85  |
| Above Normal Years (14%)                    | 85  | 80  | 68  | 57  | 54  | 54  | 57  | 63  | 75  | 90  | 97  | 91  |
| Below Normal Years (18%)                    | 90  | 83  | 68  | 62  | 59  | 58  | 61  | 70  | 83  | 95  | 103 | 95  |
| Dry Water Years (24%)                       | 92  | 84  | 73  | 68  | 61  | 60  | 64  | 73  | 87  | 98  | 106 | 98  |
| Critical Water Years (16%)                  | 115 | 118 | 80  | 77  | 69  | 68  | 75  | 85  | 94  | 100 | 103 | 100 |

**Table F.2.6-1-7b. X2, Alt2woTUCPDeltaVA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 94  | 92  | 89  | 87  | 80  | 75  | 79  | 83  | 85  | 88  | 92  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 84  | 74  | 71  | 75  | 80  | 84  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 79  | 68  | 66  | 72  | 79  | 83  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 89  | 86  | 73  | 65  | 65  | 68  | 77  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 82  | 69  | 62  | 62  | 66  | 75  | 80  | 83  | 86  | 90  |
| 60% Exceedance                              | 80  | 85  | 77  | 64  | 57  | 59  | 63  | 71  | 79  | 81  | 84  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 80  | 83  | 80  |
| 80% Exceedance                              | 79  | 83  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 83  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 70  | 78  | 82  | 80  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 63  | 63  | 67  | 73  | 79  | 83  | 86  | 87  |
| Wet Water Years (28%)                       | 79  | 80  | 75  | 56  | 54  | 55  | 58  | 64  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 62  | 69  | 77  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 88  | 73  | 70  | 66  | 63  | 67  | 73  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 77  | 79  | 68  | 67  | 71  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 92  | 85  | 82  | 77  | 76  | 80  | 85  | 88  | 89  | 92  | 93  |

**Table F.2.6-1-7c. X2, Alt2woTUCPDeltaVA minus EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -6  | -7  | 0   | 11  | 12  | 8   | 7   | -3  | -11 | -13 | -11 | -7  |
| 20% Exceedance                              | -6  | -2  | 4   | 12  | 9   | 7   | 8   | 0   | -9  | -13 | -11 | -7  |
| 30% Exceedance                              | -5  | 2   | 10  | 10  | 8   | 7   | 7   | 4   | -7  | -14 | -12 | -7  |
| 40% Exceedance                              | -2  | 4   | 12  | 11  | 6   | 6   | 6   | 6   | -5  | -13 | -13 | -7  |
| 50% Exceedance                              | 1   | 2   | 14  | 8   | 5   | 6   | 7   | 8   | -2  | -13 | -14 | -6  |
| 60% Exceedance                              | -5  | 4   | 12  | 7   | 3   | 4   | 6   | 7   | 1   | -12 | -16 | -12 |
| 70% Exceedance                              | -3  | 5   | 7   | 4   | 1   | 2   | 5   | 6   | 5   | -10 | -14 | -10 |
| 80% Exceedance                              | -1  | 11  | 6   | 2   | 1   | 1   | 3   | 4   | 7   | -6  | -11 | -7  |
| 90% Exceedance                              | 0   | 13  | 3   | 1   | 0   | 0   | 2   | 5   | 8   | -1  | -8  | -4  |
| Full Simulation Period Average <sup>a</sup> | -5  | 0   | 6   | 6   | 5   | 5   | 5   | 4   | -1  | -10 | -13 | -7  |
| Wet Water Years (28%)                       | -2  | 5   | 8   | 2   | 1   | 2   | 3   | 5   | 5   | -5  | -9  | -6  |
| Above Normal Years (14%)                    | -6  | 2   | 9   | 5   | 2   | 2   | 4   | 6   | 2   | -11 | -15 | -11 |
| Below Normal Years (18%)                    | 0   | 5   | 6   | 8   | 6   | 5   | 7   | 4   | -3  | -12 | -17 | -5  |
| Dry Water Years (24%)                       | -1  | 3   | 5   | 11  | 8   | 7   | 7   | 4   | -6  | -12 | -17 | -6  |
| Critical Water Years (16%)                  | -21 | -26 | 5   | 5   | 8   | 8   | 5   | 0   | -7  | -11 | -11 | -7  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.6-1-8a. X2, EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 100 | 99  | 89  | 76  | 68  | 67  | 73  | 85  | 96  | 101 | 102 | 100 |
| 20% Exceedance                              | 99  | 94  | 84  | 72  | 65  | 63  | 67  | 80  | 93  | 100 | 102 | 99  |
| 30% Exceedance                              | 96  | 90  | 77  | 69  | 60  | 59  | 65  | 75  | 89  | 99  | 101 | 99  |
| 40% Exceedance                              | 93  | 86  | 74  | 63  | 59  | 59  | 63  | 71  | 86  | 97  | 100 | 98  |
| 50% Exceedance                              | 89  | 83  | 68  | 60  | 57  | 56  | 60  | 67  | 82  | 95  | 100 | 96  |
| 60% Exceedance                              | 85  | 81  | 64  | 57  | 54  | 55  | 57  | 64  | 78  | 93  | 99  | 93  |
| 70% Exceedance                              | 82  | 80  | 61  | 56  | 54  | 54  | 56  | 61  | 73  | 90  | 97  | 90  |
| 80% Exceedance                              | 81  | 73  | 56  | 53  | 53  | 53  | 54  | 58  | 67  | 85  | 94  | 87  |
| 90% Exceedance                              | 79  | 65  | 53  | 52  | 52  | 53  | 53  | 55  | 62  | 79  | 90  | 84  |
| Full Simulation Period Average <sup>a</sup> | 91  | 86  | 71  | 63  | 59  | 58  | 62  | 69  | 80  | 92  | 100 | 93  |
| Wet Water Years (28%)                       | 81  | 76  | 67  | 54  | 53  | 54  | 55  | 59  | 67  | 82  | 91  | 85  |
| Above Normal Years (14%)                    | 85  | 80  | 68  | 57  | 54  | 54  | 57  | 63  | 75  | 90  | 97  | 91  |
| Below Normal Years (18%)                    | 90  | 83  | 68  | 62  | 59  | 58  | 61  | 70  | 83  | 95  | 103 | 95  |
| Dry Water Years (24%)                       | 92  | 84  | 73  | 68  | 61  | 60  | 64  | 73  | 87  | 98  | 106 | 98  |
| Critical Water Years (16%)                  | 115 | 118 | 80  | 77  | 69  | 68  | 75  | 85  | 94  | 100 | 103 | 100 |

**Table F.2.6-1-8b. X2, Alt2woTUCPALIVA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 94  | 93  | 89  | 87  | 80  | 75  | 79  | 82  | 85  | 88  | 92  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 84  | 74  | 70  | 74  | 79  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 79  | 68  | 66  | 70  | 78  | 82  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 64  | 67  | 76  | 81  | 85  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 82  | 69  | 62  | 62  | 65  | 72  | 80  | 83  | 86  | 90  |
| 60% Exceedance                              | 80  | 85  | 77  | 64  | 57  | 59  | 63  | 69  | 79  | 80  | 84  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 80  | 83  | 80  |
| 80% Exceedance                              | 79  | 83  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 83  | 80  |
| 90% Exceedance                              | 79  | 77  | 56  | 53  | 52  | 53  | 55  | 59  | 70  | 78  | 82  | 80  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 63  | 63  | 66  | 72  | 79  | 83  | 86  | 87  |
| Wet Water Years (28%)                       | 79  | 80  | 75  | 56  | 54  | 55  | 58  | 63  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 61  | 68  | 76  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 88  | 73  | 70  | 66  | 63  | 66  | 71  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 77  | 79  | 68  | 67  | 70  | 75  | 81  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 83  | 77  | 76  | 79  | 84  | 87  | 89  | 92  | 93  |

**Table F.2.6-1-8c. X2, Alt2woTUCPALIVA minus EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -6  | -7  | 0   | 11  | 12  | 8   | 6   | -3  | -12 | -13 | -11 | -7  |
| 20% Exceedance                              | -6  | -2  | 4   | 12  | 9   | 7   | 7   | -1  | -10 | -13 | -11 | -7  |
| 30% Exceedance                              | -5  | 2   | 10  | 10  | 8   | 7   | 5   | 3   | -7  | -14 | -12 | -7  |
| 40% Exceedance                              | -2  | 4   | 12  | 11  | 6   | 6   | 4   | 4   | -5  | -12 | -13 | -7  |
| 50% Exceedance                              | 1   | 2   | 14  | 9   | 5   | 6   | 6   | 5   | -2  | -13 | -14 | -6  |
| 60% Exceedance                              | -5  | 4   | 12  | 7   | 3   | 4   | 6   | 5   | 1   | -13 | -16 | -12 |
| 70% Exceedance                              | -3  | 5   | 7   | 4   | 1   | 2   | 5   | 5   | 5   | -10 | -14 | -10 |
| 80% Exceedance                              | -1  | 11  | 6   | 2   | 1   | 1   | 3   | 4   | 7   | -6  | -11 | -7  |
| 90% Exceedance                              | 0   | 12  | 3   | 1   | 0   | 0   | 2   | 4   | 8   | -1  | -8  | -4  |
| Full Simulation Period Average <sup>a</sup> | -5  | 0   | 6   | 6   | 5   | 5   | 4   | 3   | -2  | -10 | -14 | -7  |
| Wet Water Years (28%)                       | -2  | 5   | 8   | 2   | 1   | 2   | 3   | 5   | 5   | -5  | -9  | -6  |
| Above Normal Years (14%)                    | -6  | 2   | 9   | 5   | 2   | 2   | 4   | 4   | 2   | -11 | -15 | -11 |
| Below Normal Years (18%)                    | 0   | 5   | 6   | 8   | 6   | 5   | 5   | 2   | -3  | -12 | -17 | -5  |
| Dry Water Years (24%)                       | -1  | 3   | 4   | 10  | 8   | 7   | 6   | 2   | -6  | -12 | -17 | -6  |
| Critical Water Years (16%)                  | -22 | -26 | 5   | 6   | 8   | 8   | 4   | -1  | -7  | -11 | -12 | -7  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.6-1-9a. X2, EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 100 | 99  | 89  | 76  | 68  | 67  | 73  | 85  | 96  | 101 | 102 | 100 |
| 20% Exceedance                              | 99  | 94  | 84  | 72  | 65  | 63  | 67  | 80  | 93  | 100 | 102 | 99  |
| 30% Exceedance                              | 96  | 90  | 77  | 69  | 60  | 59  | 65  | 75  | 89  | 99  | 101 | 99  |
| 40% Exceedance                              | 93  | 86  | 74  | 63  | 59  | 59  | 63  | 71  | 86  | 97  | 100 | 98  |
| 50% Exceedance                              | 89  | 83  | 68  | 60  | 57  | 56  | 60  | 67  | 82  | 95  | 100 | 96  |
| 60% Exceedance                              | 85  | 81  | 64  | 57  | 54  | 55  | 57  | 64  | 78  | 93  | 99  | 93  |
| 70% Exceedance                              | 82  | 80  | 61  | 56  | 54  | 54  | 56  | 61  | 73  | 90  | 97  | 90  |
| 80% Exceedance                              | 81  | 73  | 56  | 53  | 53  | 53  | 54  | 58  | 67  | 85  | 94  | 87  |
| 90% Exceedance                              | 79  | 65  | 53  | 52  | 52  | 53  | 53  | 55  | 62  | 79  | 90  | 84  |
| Full Simulation Period Average <sup>a</sup> | 91  | 86  | 71  | 63  | 59  | 58  | 62  | 69  | 80  | 92  | 100 | 93  |
| Wet Water Years (28%)                       | 81  | 76  | 67  | 54  | 53  | 54  | 55  | 59  | 67  | 82  | 91  | 85  |
| Above Normal Years (14%)                    | 85  | 80  | 68  | 57  | 54  | 54  | 57  | 63  | 75  | 90  | 97  | 91  |
| Below Normal Years (18%)                    | 90  | 83  | 68  | 62  | 59  | 58  | 61  | 70  | 83  | 95  | 103 | 95  |
| Dry Water Years (24%)                       | 92  | 84  | 73  | 68  | 61  | 60  | 64  | 73  | 87  | 98  | 106 | 98  |
| Critical Water Years (16%)                  | 115 | 118 | 80  | 77  | 69  | 68  | 75  | 85  | 94  | 100 | 103 | 100 |

**Table F.2.6-1-9b. X2, Alt2wTUCPwoVA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 93  | 93  | 90  | 86  | 78  | 79  | 81  | 86  | 91  | 92  | 93  | 93  |
| 20% Exceedance                              | 93  | 92  | 89  | 83  | 74  | 73  | 78  | 80  | 83  | 87  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 79  | 67  | 67  | 73  | 80  | 83  | 85  | 90  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 65  | 69  | 78  | 82  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 82  | 68  | 62  | 63  | 67  | 75  | 80  | 83  | 86  | 90  |
| 60% Exceedance                              | 80  | 85  | 77  | 64  | 57  | 59  | 64  | 71  | 79  | 81  | 84  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 62  | 67  | 78  | 80  | 83  | 80  |
| 80% Exceedance                              | 79  | 83  | 63  | 55  | 53  | 54  | 58  | 62  | 74  | 79  | 83  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 69  | 78  | 82  | 80  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 63  | 64  | 68  | 73  | 79  | 83  | 87  | 87  |
| Wet Water Years (28%)                       | 79  | 80  | 74  | 56  | 54  | 55  | 58  | 64  | 72  | 78  | 82  | 80  |
| Above Normal Years (14%)                    | 79  | 83  | 77  | 63  | 57  | 57  | 62  | 70  | 77  | 80  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 88  | 73  | 70  | 65  | 64  | 68  | 74  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 78  | 79  | 68  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 81  | 76  | 77  | 83  | 87  | 90  | 92  | 93  | 93  |

**Table F.2.6-1-9c. X2, Alt2wTUCPwoVA minus EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -7  | -7  | 0   | 10  | 10  | 11  | 8   | 1   | -5  | -9  | -10 | -7  |
| 20% Exceedance                              | -6  | -2  | 5   | 12  | 9   | 10  | 11  | 0   | -10 | -13 | -11 | -7  |
| 30% Exceedance                              | -5  | 2   | 10  | 11  | 7   | 7   | 8   | 5   | -7  | -14 | -11 | -7  |
| 40% Exceedance                              | -2  | 4   | 12  | 10  | 6   | 6   | 7   | 7   | -5  | -13 | -13 | -7  |
| 50% Exceedance                              | 1   | 2   | 14  | 8   | 5   | 7   | 7   | 8   | -2  | -13 | -14 | -6  |
| 60% Exceedance                              | -5  | 4   | 12  | 7   | 3   | 4   | 7   | 7   | 1   | -12 | -16 | -12 |
| 70% Exceedance                              | -3  | 5   | 7   | 4   | 1   | 2   | 6   | 6   | 5   | -10 | -14 | -9  |
| 80% Exceedance                              | -1  | 11  | 6   | 2   | 1   | 1   | 4   | 5   | 7   | -6  | -11 | -7  |
| 90% Exceedance                              | 0   | 13  | 3   | 1   | 0   | 0   | 2   | 4   | 8   | -1  | -7  | -4  |
| Full Simulation Period Average <sup>a</sup> | -5  | 0   | 6   | 6   | 5   | 5   | 6   | 4   | -1  | -9  | -13 | -7  |
| Wet Water Years (28%)                       | -2  | 5   | 7   | 2   | 1   | 2   | 3   | 5   | 5   | -5  | -9  | -6  |
| Above Normal Years (14%)                    | -6  | 2   | 9   | 5   | 2   | 2   | 5   | 6   | 2   | -11 | -14 | -11 |
| Below Normal Years (18%)                    | 0   | 5   | 6   | 8   | 6   | 6   | 8   | 4   | -3  | -12 | -17 | -5  |
| Dry Water Years (24%)                       | -1  | 3   | 5   | 11  | 7   | 8   | 8   | 4   | -6  | -12 | -17 | -6  |
| Critical Water Years (16%)                  | -22 | -25 | 5   | 4   | 7   | 10  | 8   | 2   | -5  | -8  | -10 | -7  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.6-1-10a. X2, EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 100 | 99  | 89  | 76  | 68  | 67  | 73  | 85  | 96  | 101 | 102 | 100 |
| 20% Exceedance                              | 99  | 94  | 84  | 72  | 65  | 63  | 67  | 80  | 93  | 100 | 102 | 99  |
| 30% Exceedance                              | 96  | 90  | 77  | 69  | 60  | 59  | 65  | 75  | 89  | 99  | 101 | 99  |
| 40% Exceedance                              | 93  | 86  | 74  | 63  | 59  | 59  | 63  | 71  | 86  | 97  | 100 | 98  |
| 50% Exceedance                              | 89  | 83  | 68  | 60  | 57  | 56  | 60  | 67  | 82  | 95  | 100 | 96  |
| 60% Exceedance                              | 85  | 81  | 64  | 57  | 54  | 55  | 57  | 64  | 78  | 93  | 99  | 93  |
| 70% Exceedance                              | 82  | 80  | 61  | 56  | 54  | 54  | 56  | 61  | 73  | 90  | 97  | 90  |
| 80% Exceedance                              | 81  | 73  | 56  | 53  | 53  | 53  | 54  | 58  | 67  | 85  | 94  | 87  |
| 90% Exceedance                              | 79  | 65  | 53  | 52  | 52  | 53  | 53  | 55  | 62  | 79  | 90  | 84  |
| Full Simulation Period Average <sup>a</sup> | 91  | 86  | 71  | 63  | 59  | 58  | 62  | 69  | 80  | 92  | 100 | 93  |
| Wet Water Years (28%)                       | 81  | 76  | 67  | 54  | 53  | 54  | 55  | 59  | 67  | 82  | 91  | 85  |
| Above Normal Years (14%)                    | 85  | 80  | 68  | 57  | 54  | 54  | 57  | 63  | 75  | 90  | 97  | 91  |
| Below Normal Years (18%)                    | 90  | 83  | 68  | 62  | 59  | 58  | 61  | 70  | 83  | 95  | 103 | 95  |
| Dry Water Years (24%)                       | 92  | 84  | 73  | 68  | 61  | 60  | 64  | 73  | 87  | 98  | 106 | 98  |
| Critical Water Years (16%)                  | 115 | 118 | 80  | 77  | 69  | 68  | 75  | 85  | 94  | 100 | 103 | 100 |

**Table F.2.6-1-10b. X2, NAA, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 93  | 93  | 89  | 87  | 80  | 78  | 83  | 87  | 90  | 91  | 93  | 93  |
| 20% Exceedance                              | 93  | 92  | 88  | 85  | 75  | 73  | 78  | 80  | 83  | 86  | 90  | 92  |
| 30% Exceedance                              | 92  | 91  | 87  | 80  | 68  | 67  | 72  | 78  | 82  | 85  | 89  | 92  |
| 40% Exceedance                              | 91  | 90  | 86  | 73  | 65  | 65  | 69  | 77  | 81  | 84  | 88  | 91  |
| 50% Exceedance                              | 90  | 86  | 83  | 68  | 62  | 63  | 66  | 73  | 80  | 83  | 86  | 89  |
| 60% Exceedance                              | 80  | 85  | 76  | 64  | 58  | 59  | 64  | 70  | 79  | 81  | 83  | 81  |
| 70% Exceedance                              | 80  | 85  | 68  | 59  | 55  | 56  | 61  | 67  | 78  | 79  | 83  | 80  |
| 80% Exceedance                              | 79  | 84  | 63  | 55  | 53  | 54  | 57  | 62  | 74  | 79  | 82  | 80  |
| 90% Exceedance                              | 79  | 78  | 56  | 53  | 52  | 53  | 55  | 59  | 69  | 78  | 82  | 79  |
| Full Simulation Period Average <sup>a</sup> | 86  | 86  | 77  | 69  | 64  | 64  | 68  | 72  | 79  | 83  | 86  | 86  |
| Wet Water Years (28%)                       | 79  | 80  | 74  | 56  | 54  | 55  | 58  | 63  | 72  | 78  | 82  | 79  |
| Above Normal Years (14%)                    | 79  | 83  | 76  | 63  | 57  | 57  | 62  | 68  | 77  | 79  | 83  | 80  |
| Below Normal Years (18%)                    | 90  | 89  | 74  | 70  | 66  | 64  | 68  | 72  | 80  | 83  | 86  | 90  |
| Dry Water Years (24%)                       | 91  | 88  | 78  | 79  | 69  | 68  | 72  | 77  | 82  | 85  | 89  | 92  |
| Critical Water Years (16%)                  | 94  | 93  | 85  | 83  | 77  | 77  | 84  | 87  | 90  | 92  | 93  | 93  |

**Table F.2.6-1-10c. X2, NAA minus EXP1, Monthly Position (KM)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -6  | -6  | 0   | 11  | 12  | 11  | 10  | 1   | -6  | -9  | -10 | -7  |
| 20% Exceedance                              | -6  | -2  | 4   | 13  | 10  | 10  | 11  | 0   | -10 | -14 | -12 | -7  |
| 30% Exceedance                              | -5  | 2   | 10  | 11  | 8   | 7   | 7   | 3   | -7  | -14 | -12 | -7  |
| 40% Exceedance                              | -1  | 4   | 13  | 10  | 6   | 6   | 6   | 6   | -5  | -13 | -12 | -7  |
| 50% Exceedance                              | 1   | 3   | 15  | 8   | 5   | 7   | 7   | 6   | -2  | -13 | -14 | -7  |
| 60% Exceedance                              | -5  | 4   | 11  | 7   | 3   | 4   | 6   | 6   | 1   | -12 | -16 | -12 |
| 70% Exceedance                              | -3  | 5   | 7   | 4   | 1   | 2   | 6   | 5   | 5   | -10 | -14 | -10 |
| 80% Exceedance                              | -2  | 11  | 6   | 2   | 1   | 1   | 3   | 5   | 7   | -6  | -11 | -8  |
| 90% Exceedance                              | 0   | 13  | 3   | 1   | 0   | 0   | 2   | 4   | 8   | -1  | -8  | -5  |
| Full Simulation Period Average <sup>a</sup> | -5  | 0   | 6   | 6   | 5   | 5   | 6   | 3   | -1  | -9  | -13 | -7  |
| Wet Water Years (28%)                       | -2  | 5   | 7   | 2   | 1   | 2   | 3   | 4   | 5   | -5  | -9  | -6  |
| Above Normal Years (14%)                    | -6  | 3   | 9   | 6   | 2   | 2   | 5   | 5   | 2   | -11 | -15 | -12 |
| Below Normal Years (18%)                    | 0   | 6   | 6   | 8   | 6   | 6   | 7   | 2   | -3  | -12 | -17 | -5  |
| Dry Water Years (24%)                       | -1  | 3   | 5   | 11  | 8   | 8   | 7   | 3   | -6  | -12 | -17 | -6  |
| Critical Water Years (16%)                  | -22 | -25 | 5   | 5   | 8   | 10  | 8   | 2   | -4  | -8  | -10 | -7  |

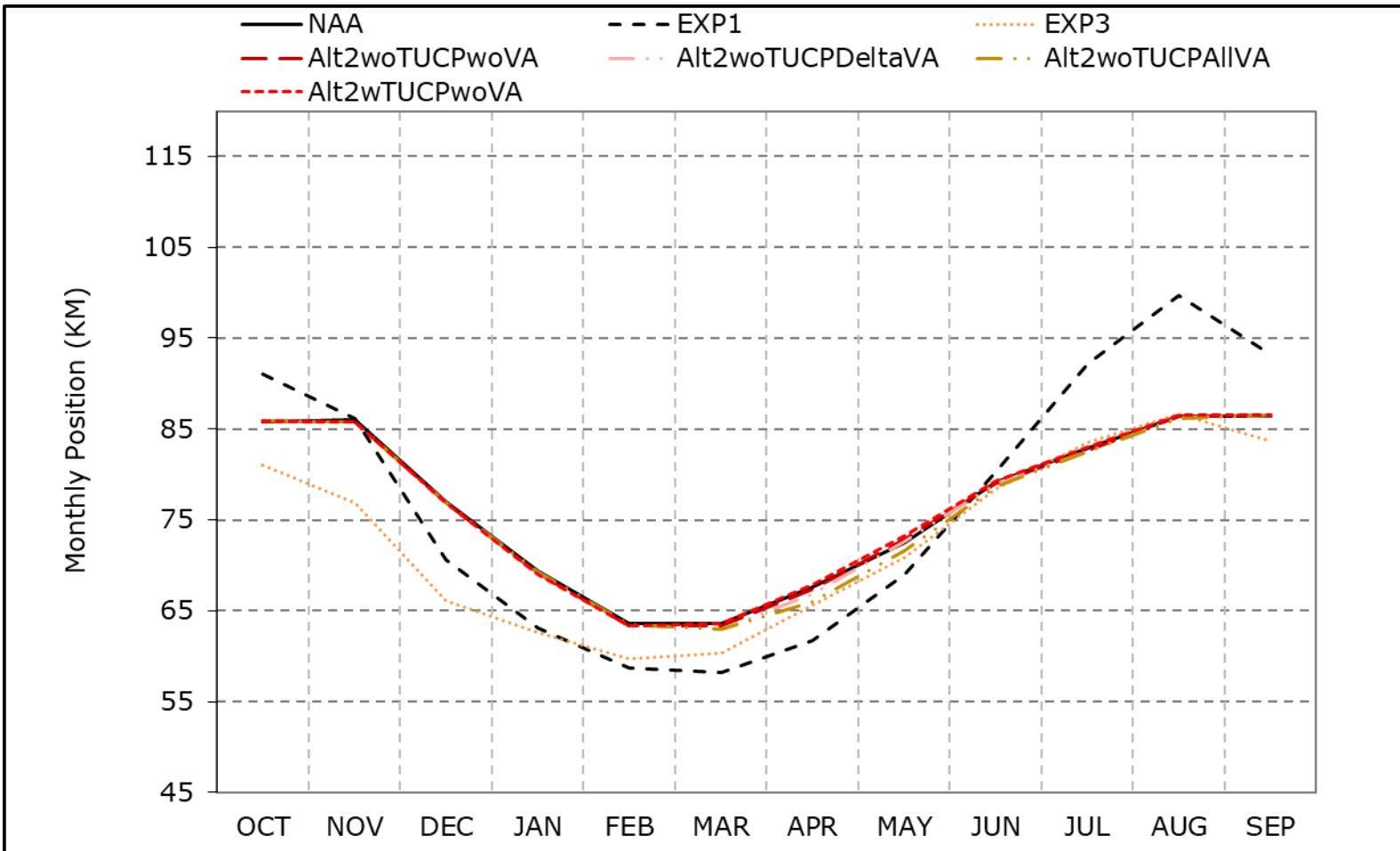
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.6-1-1. X2, Long-Term Average Position**

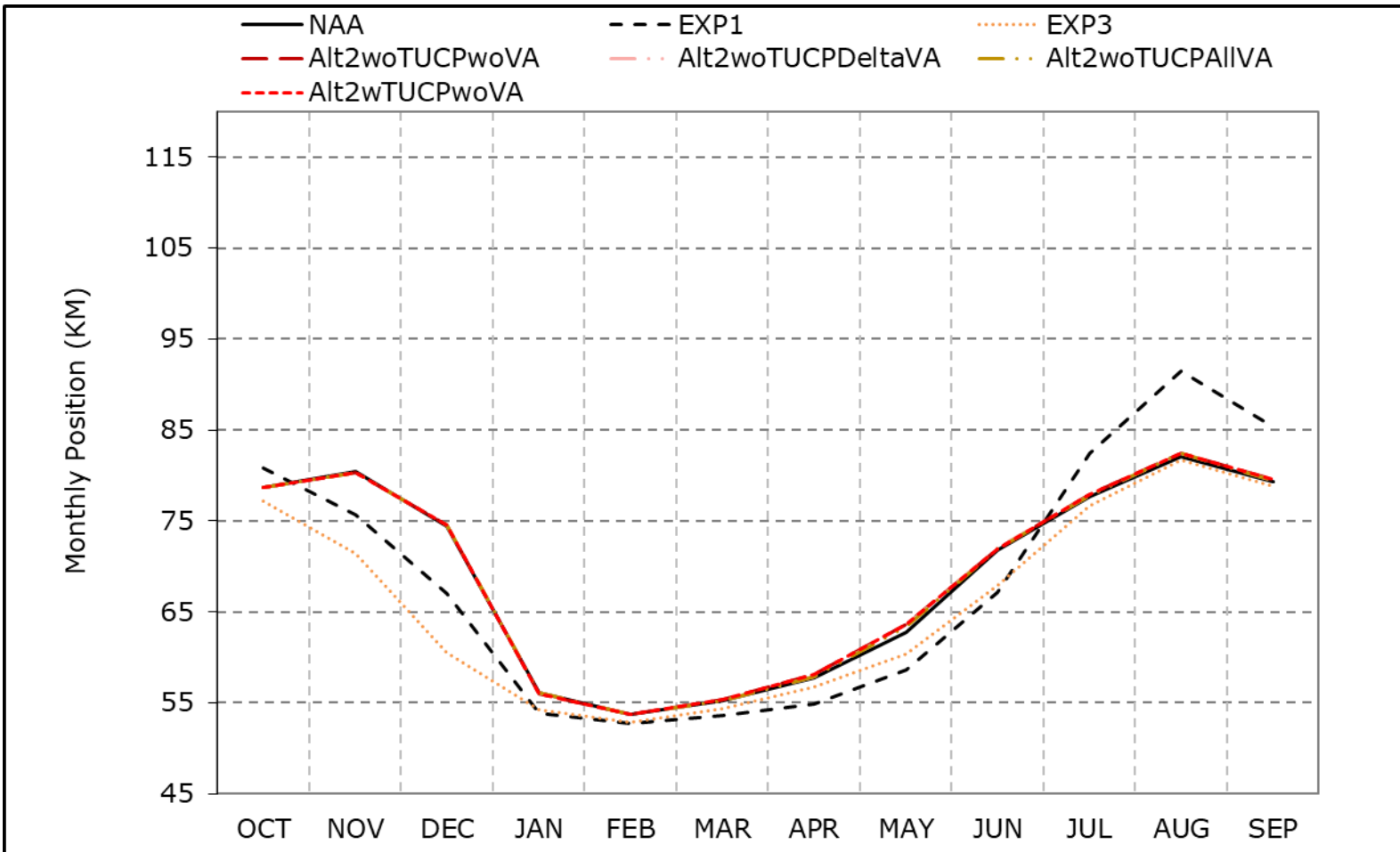


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-2. X2, Wet Year Average Position**

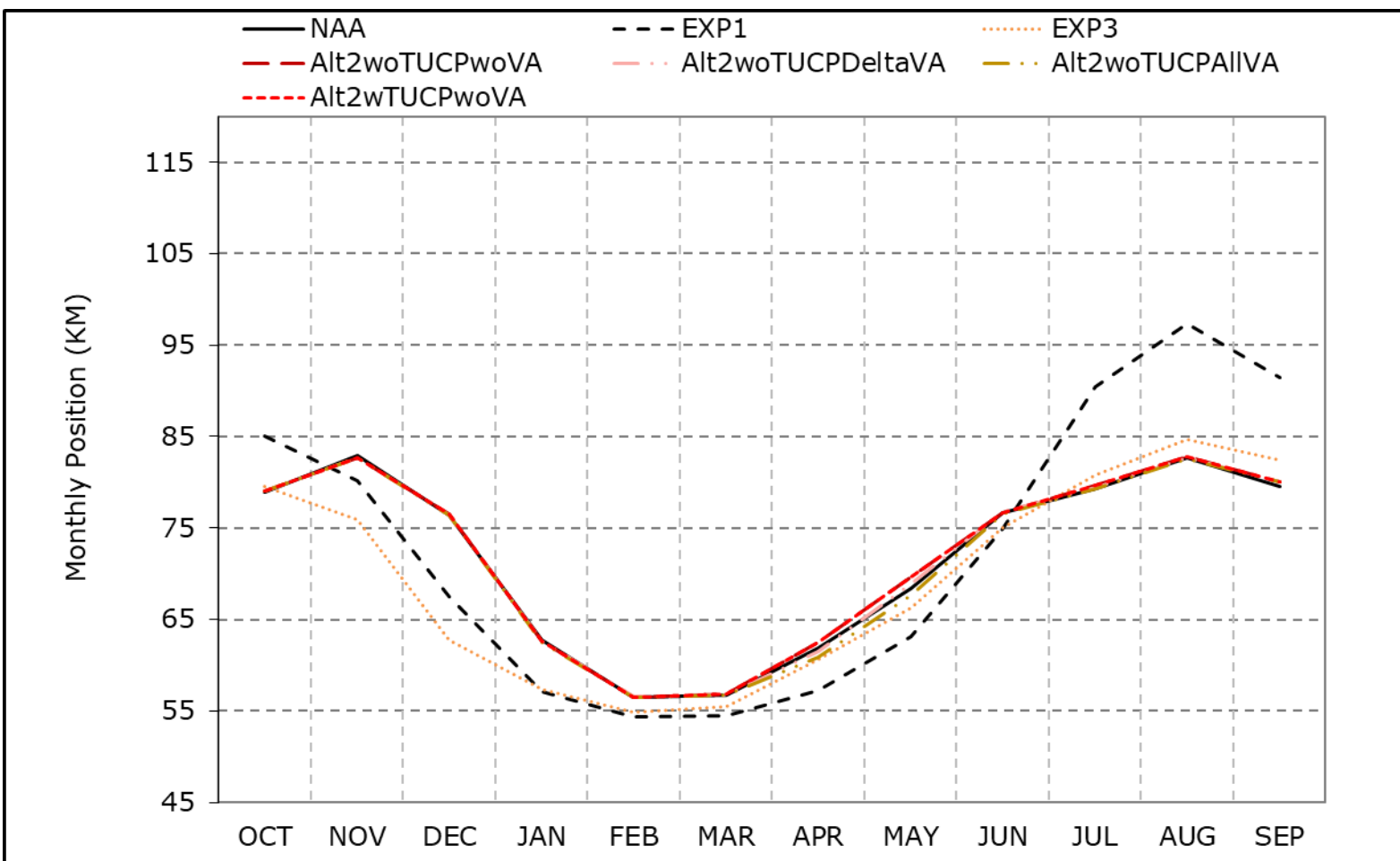


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-3. X2, Above Normal Year Average Position**

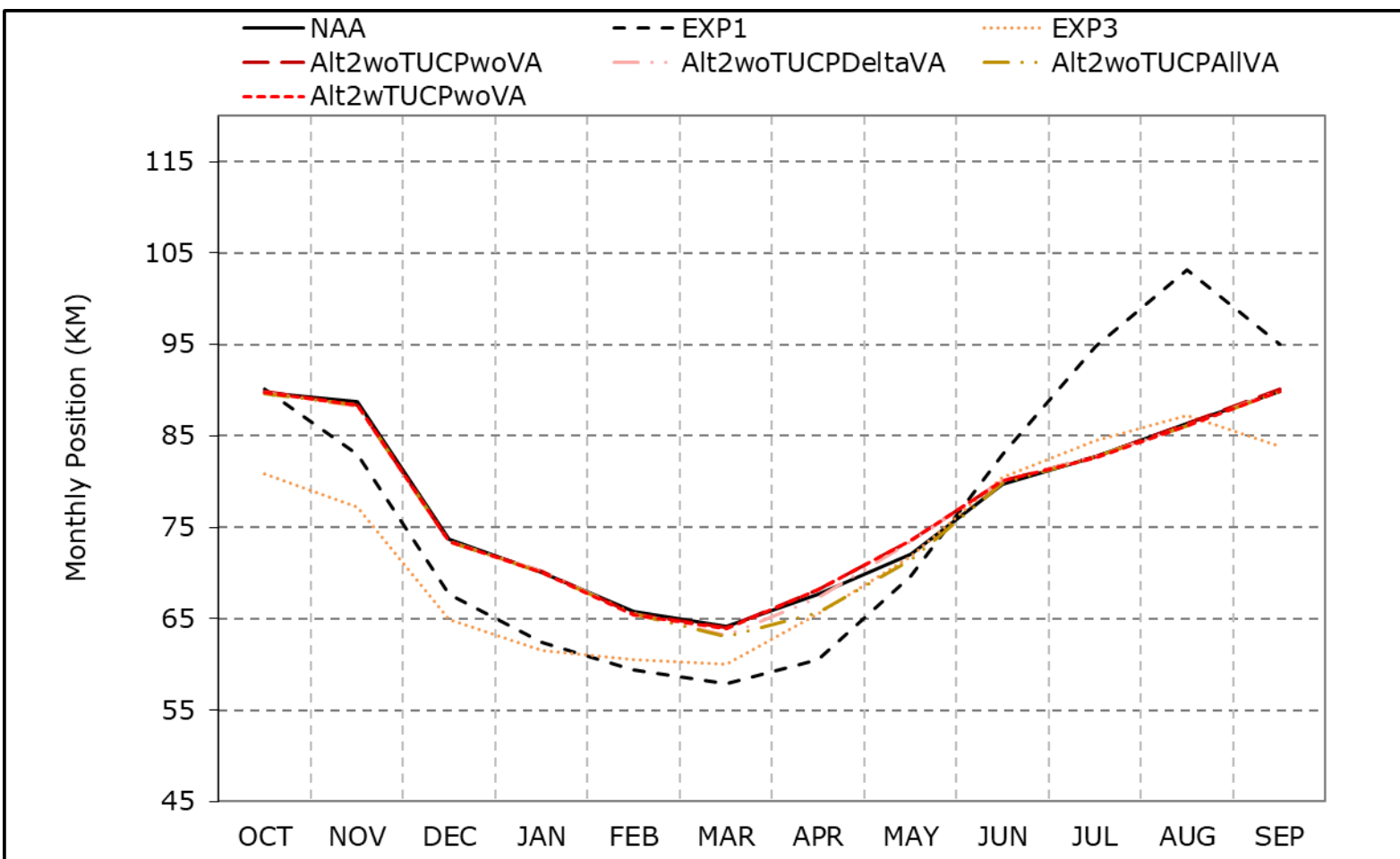


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-4. X2, Below Normal Year Average Position**

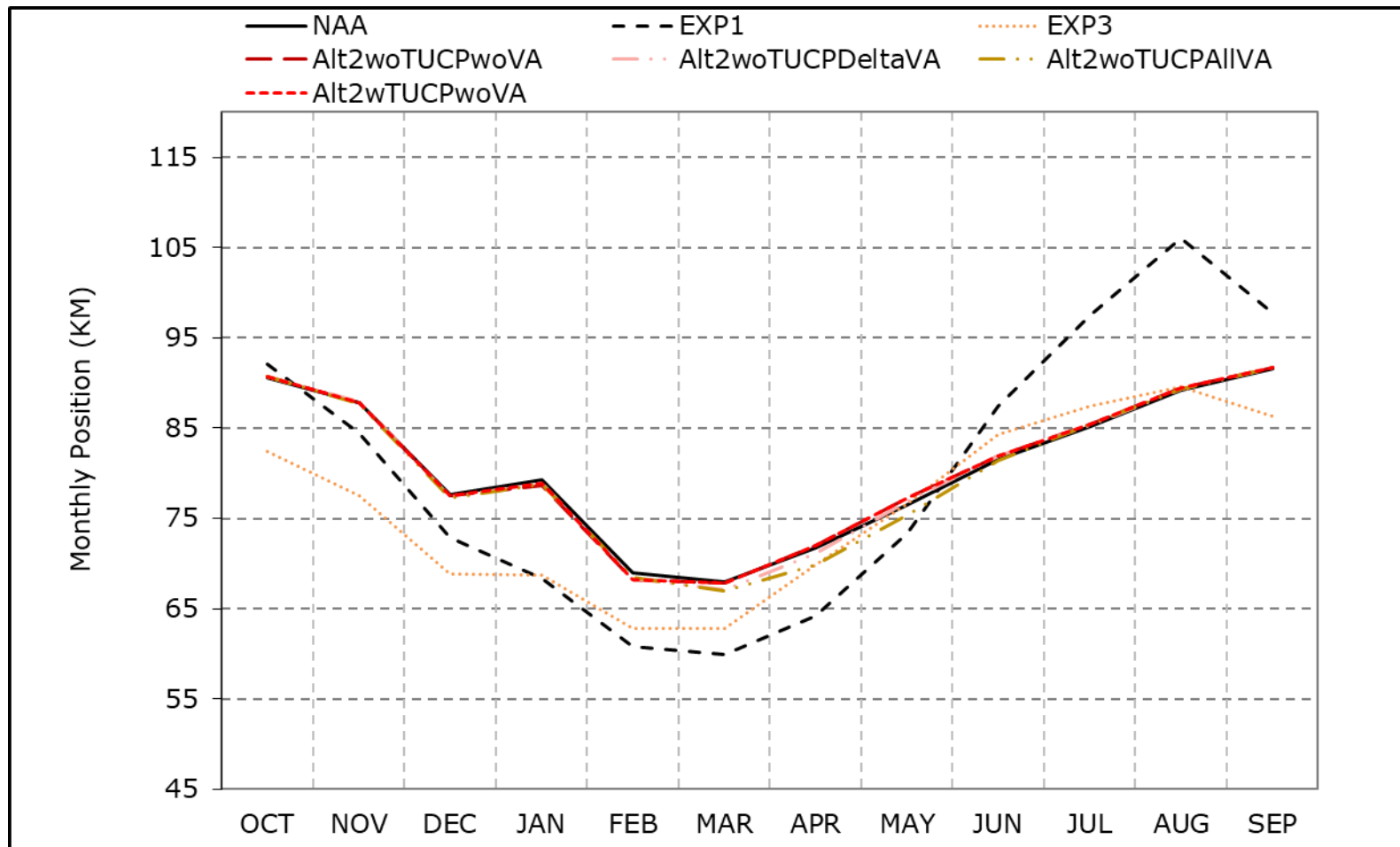


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-5. X2, Dry Year Average Position**



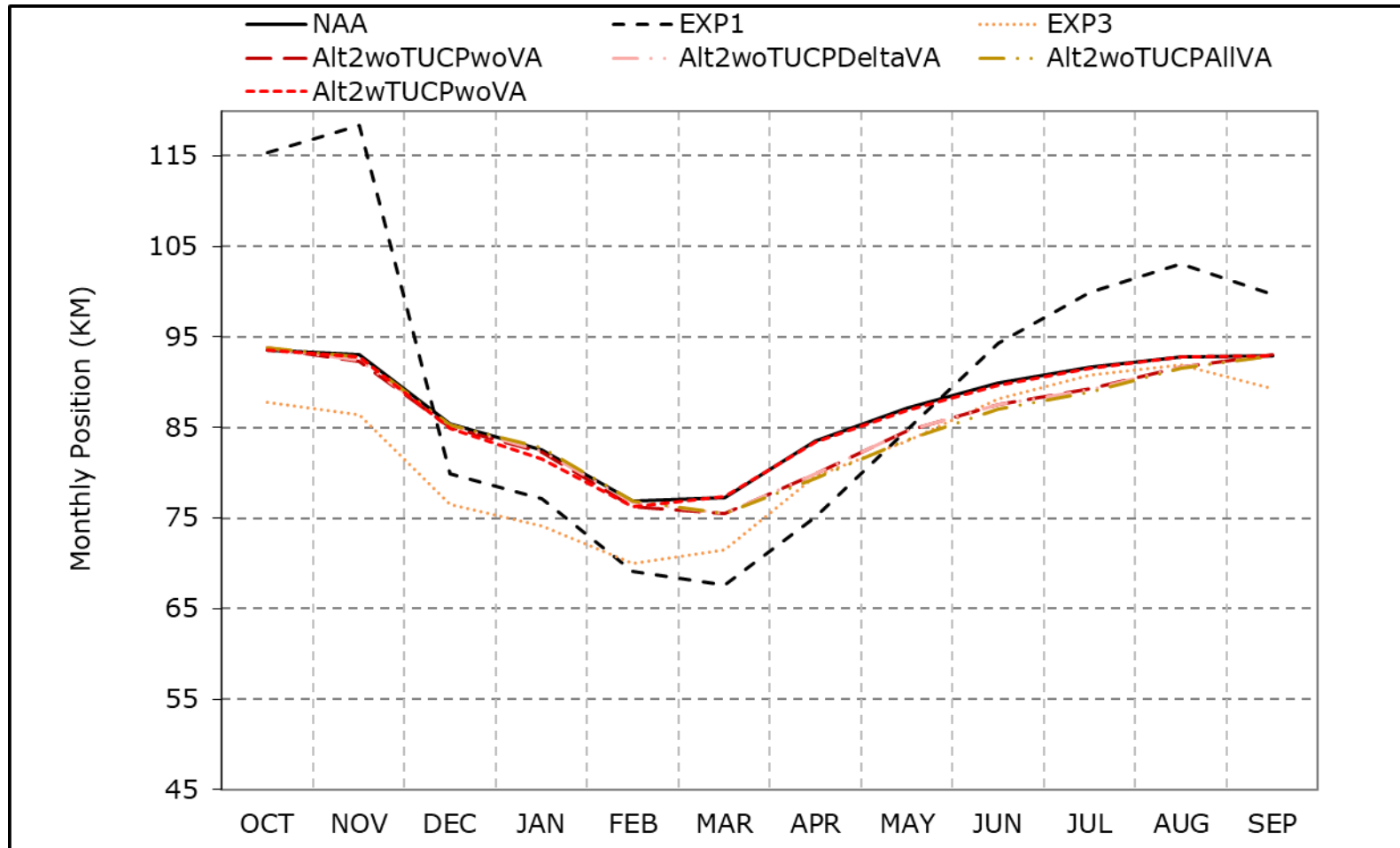
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.6-1-6. X2, Critical Year Average Position**

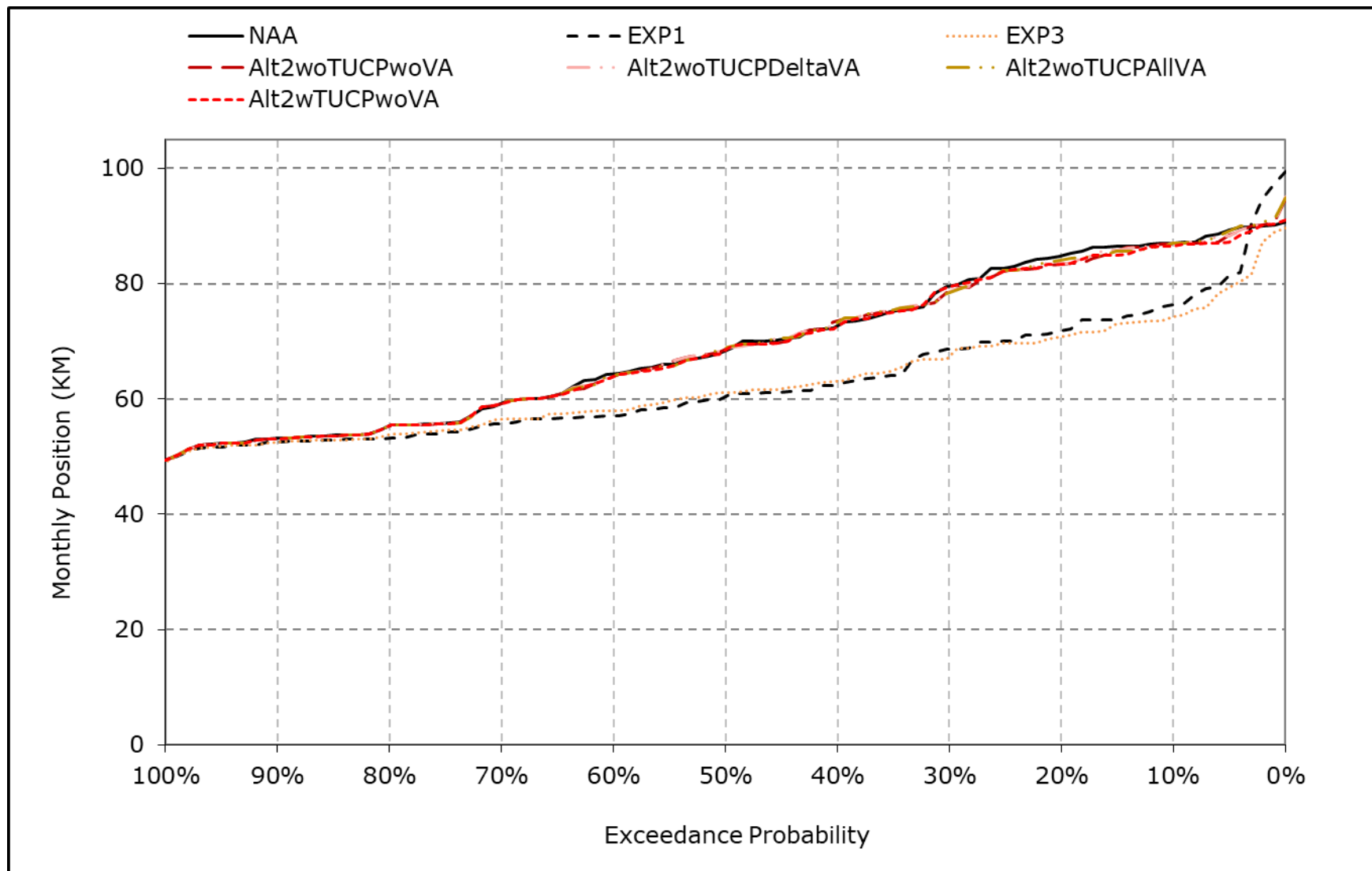


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

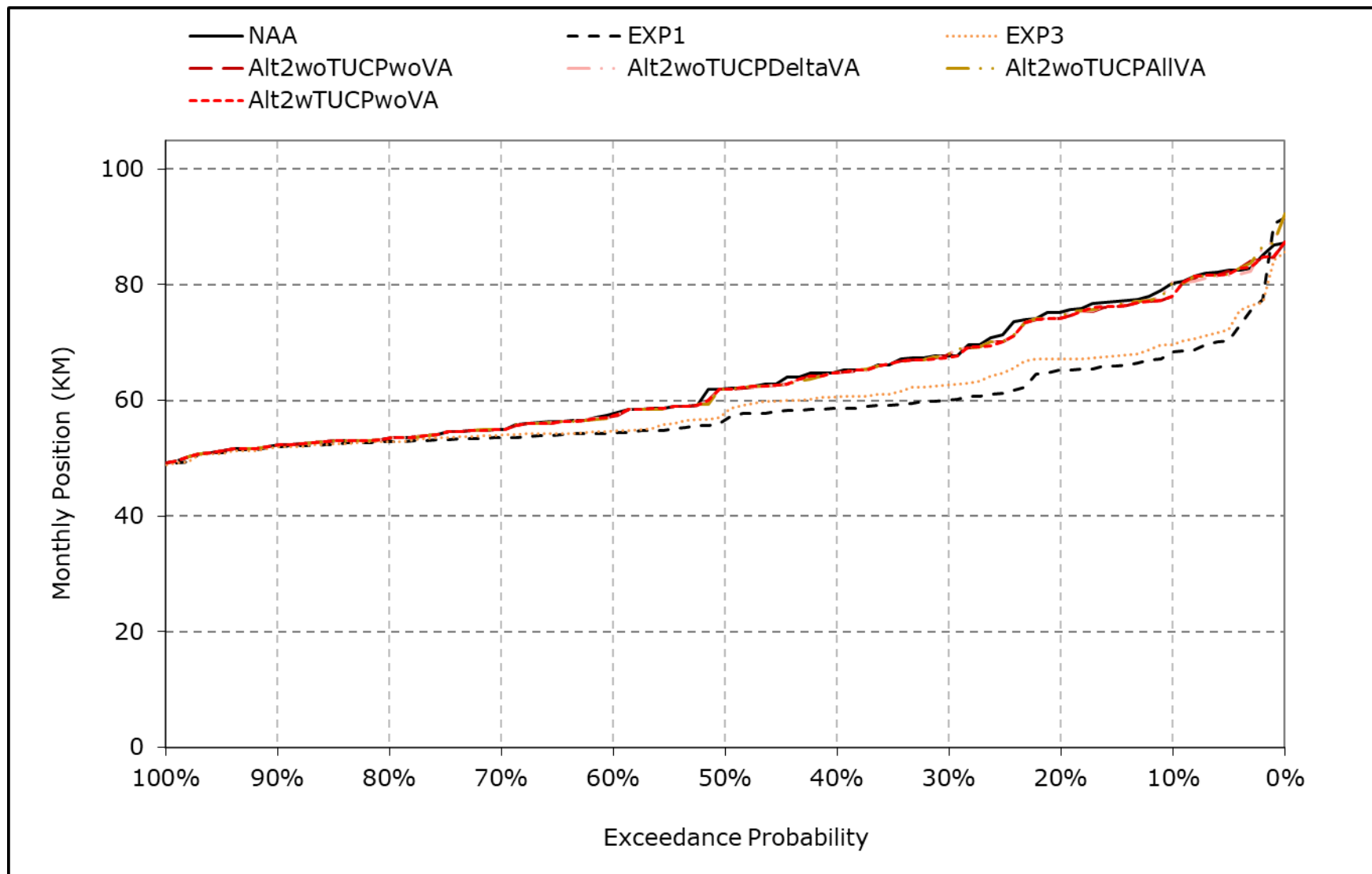
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-7. X2, January Position**



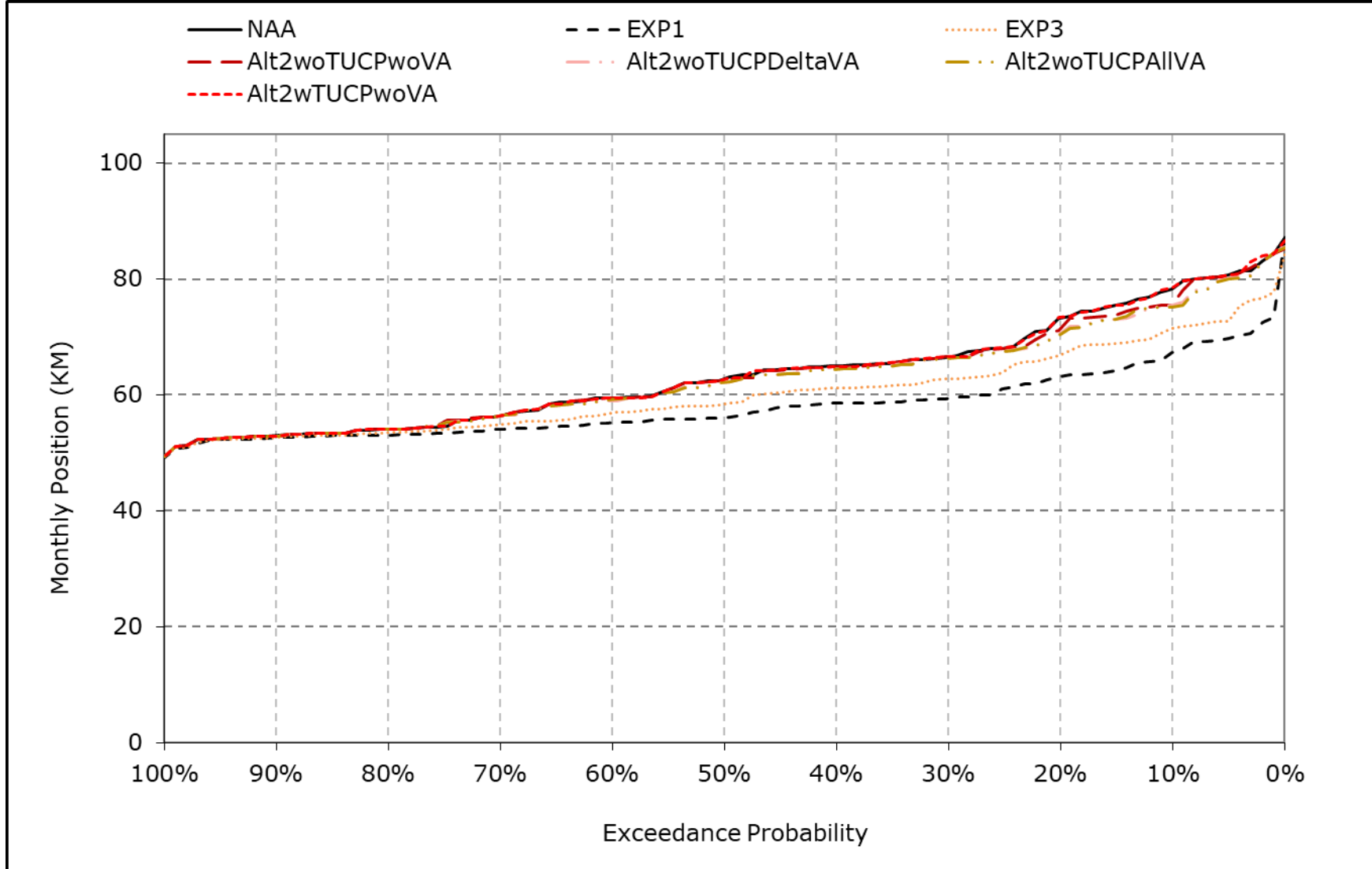
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-8. X2, February Position**



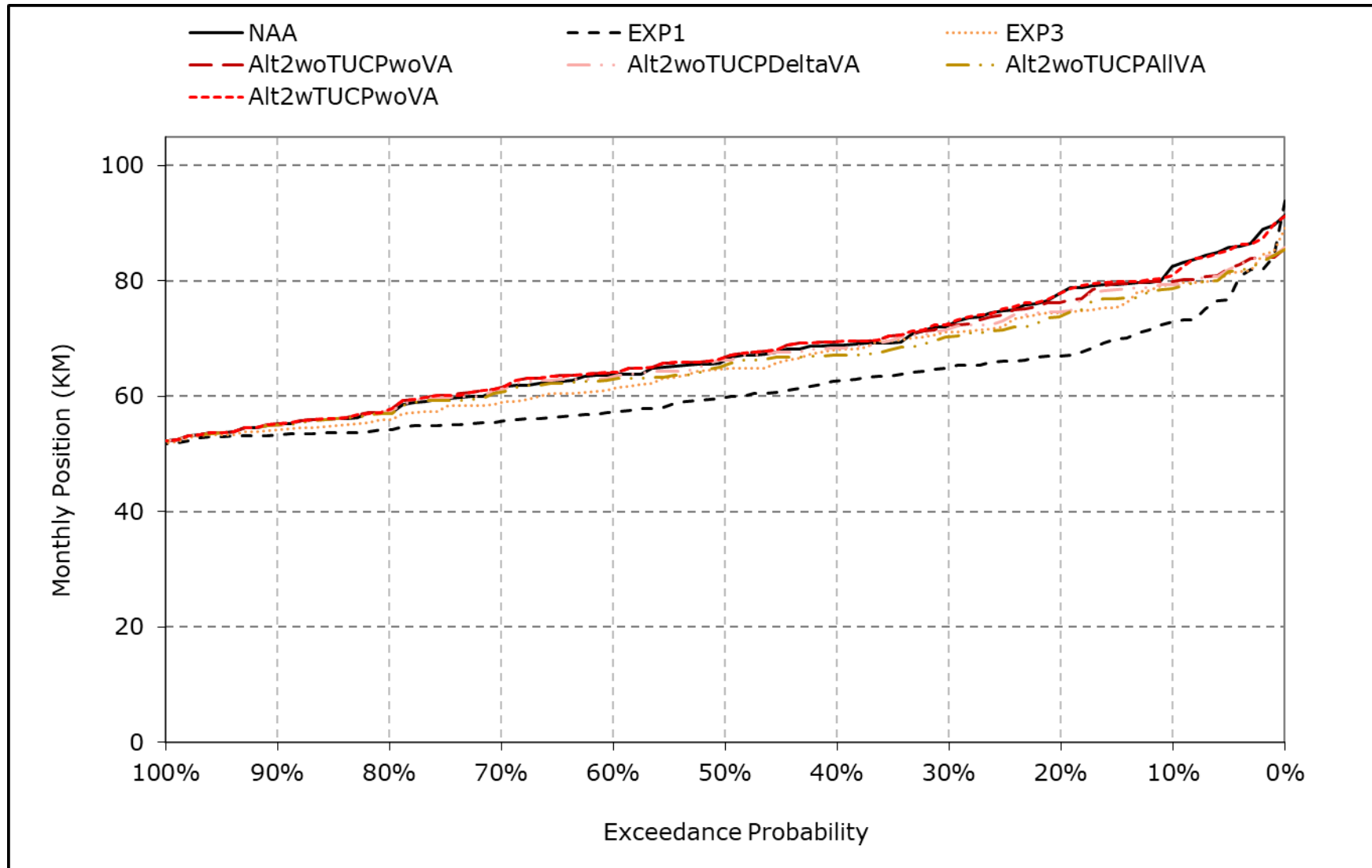
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-9. X2, March Position**



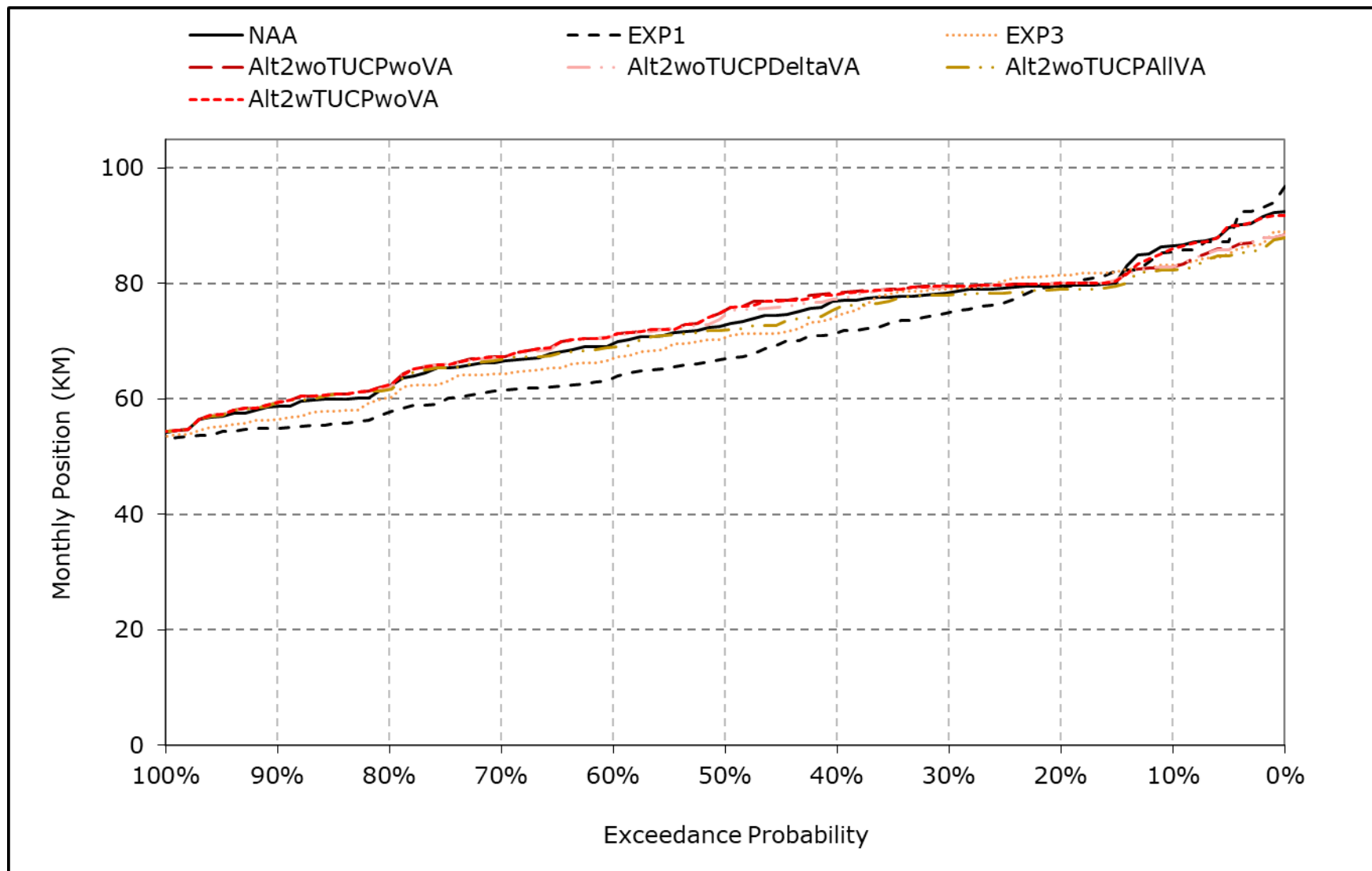
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-10. X2, April Position**



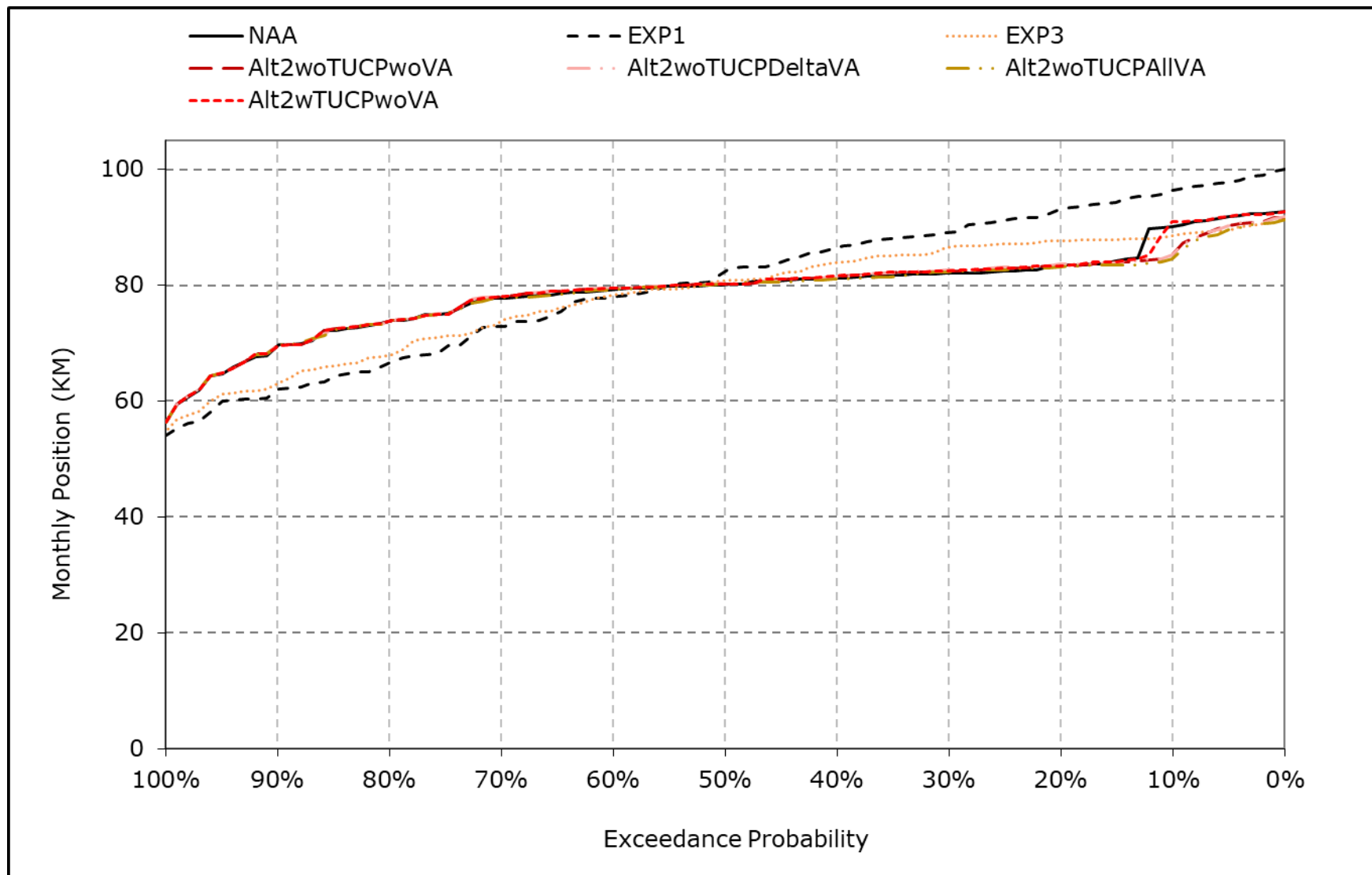
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-11. X2, May Position**



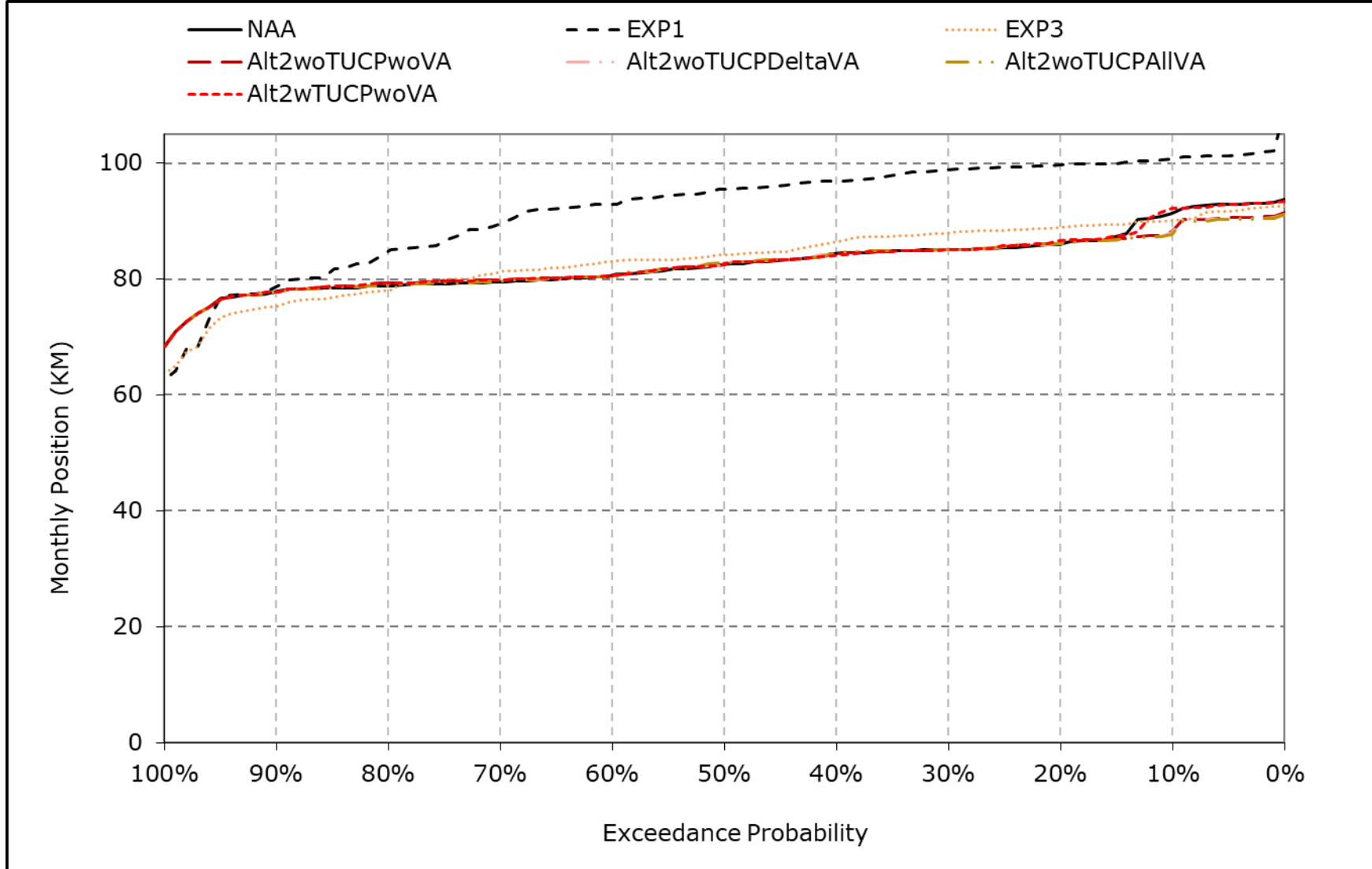
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-12. X2, June Position**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

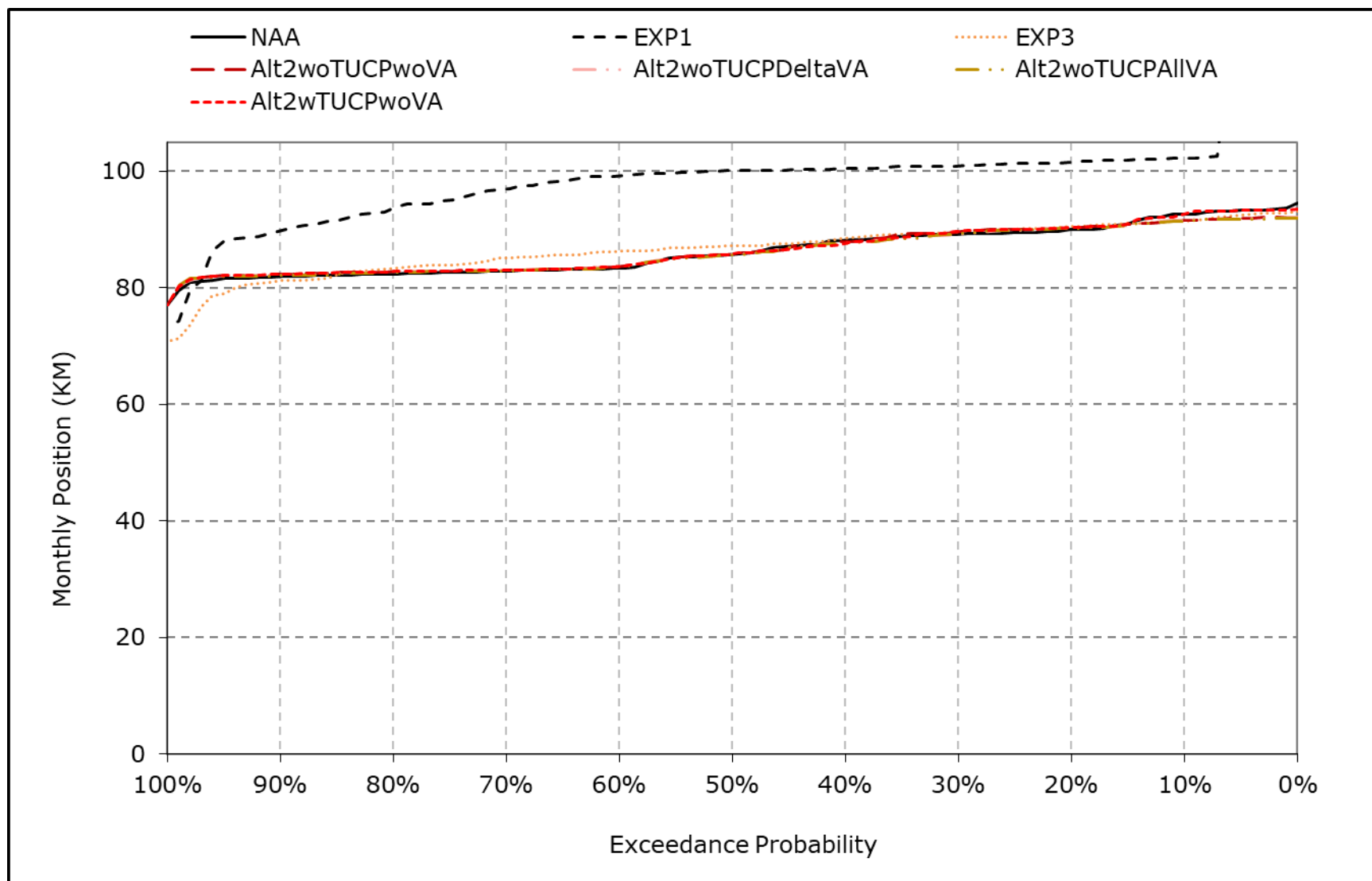
**Figure F.2.6-1-13. X2, July Position**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

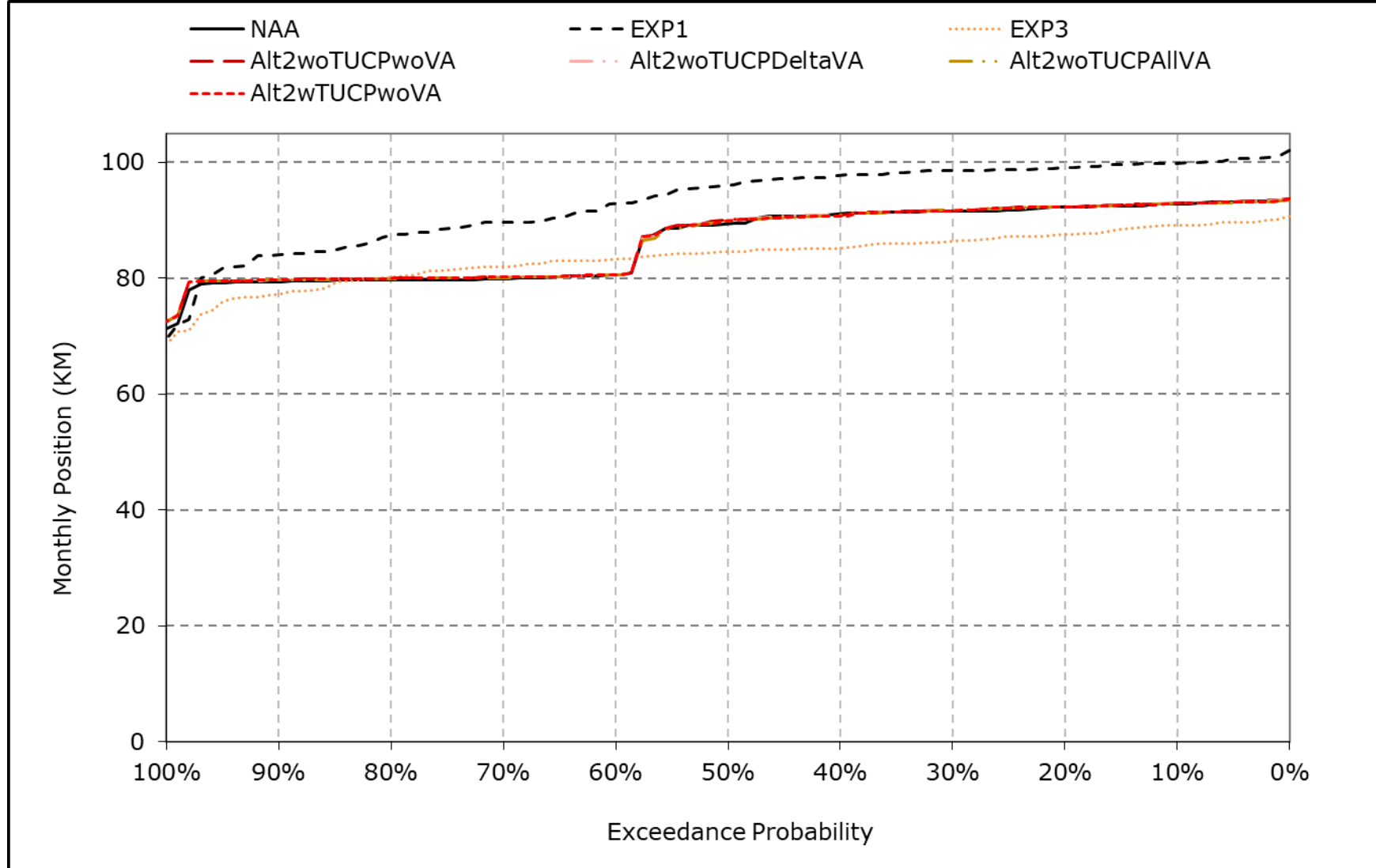


**Figure F.2.6-1-14. X2, August Position**



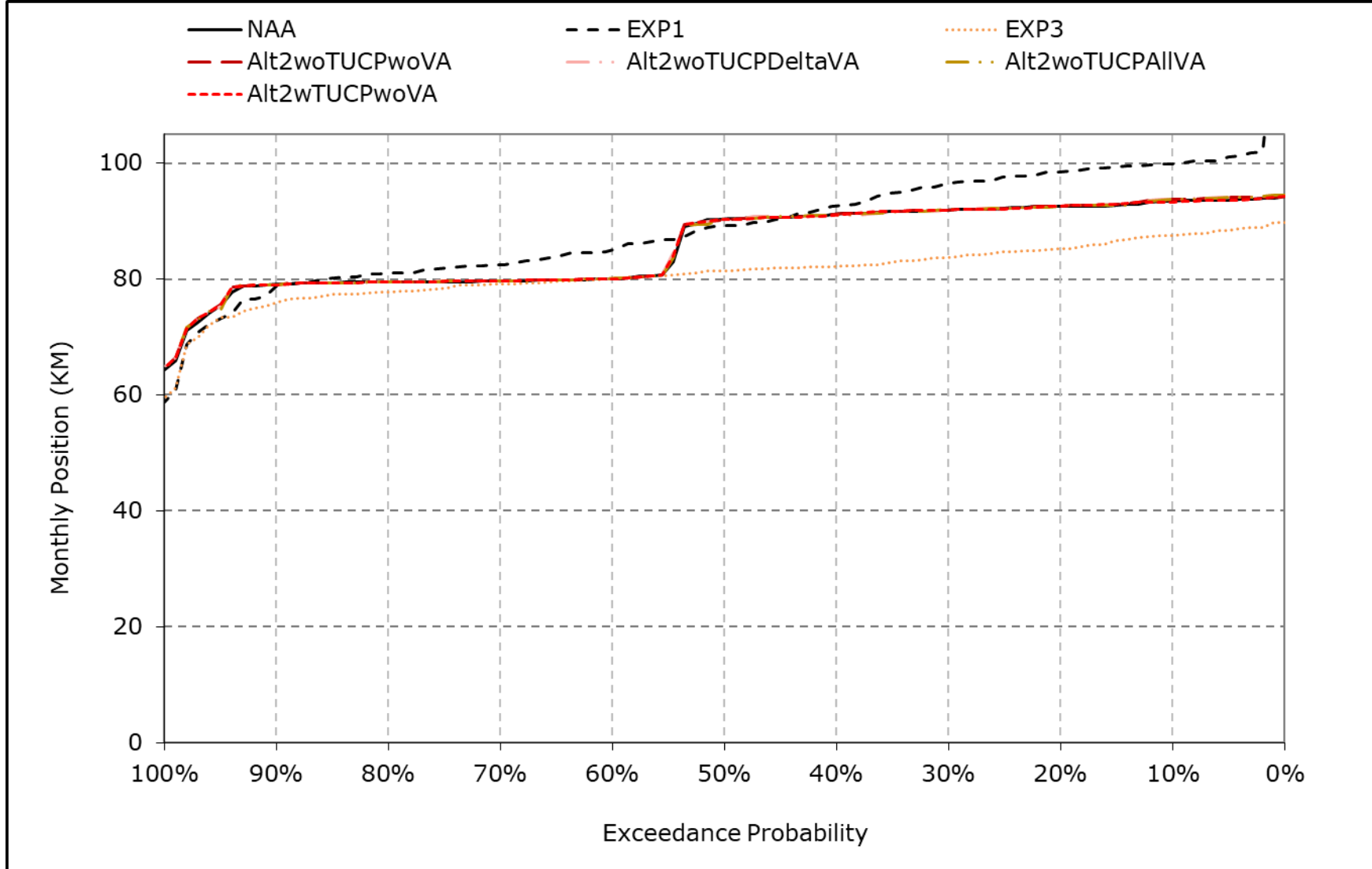
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-15. X2, September Position**



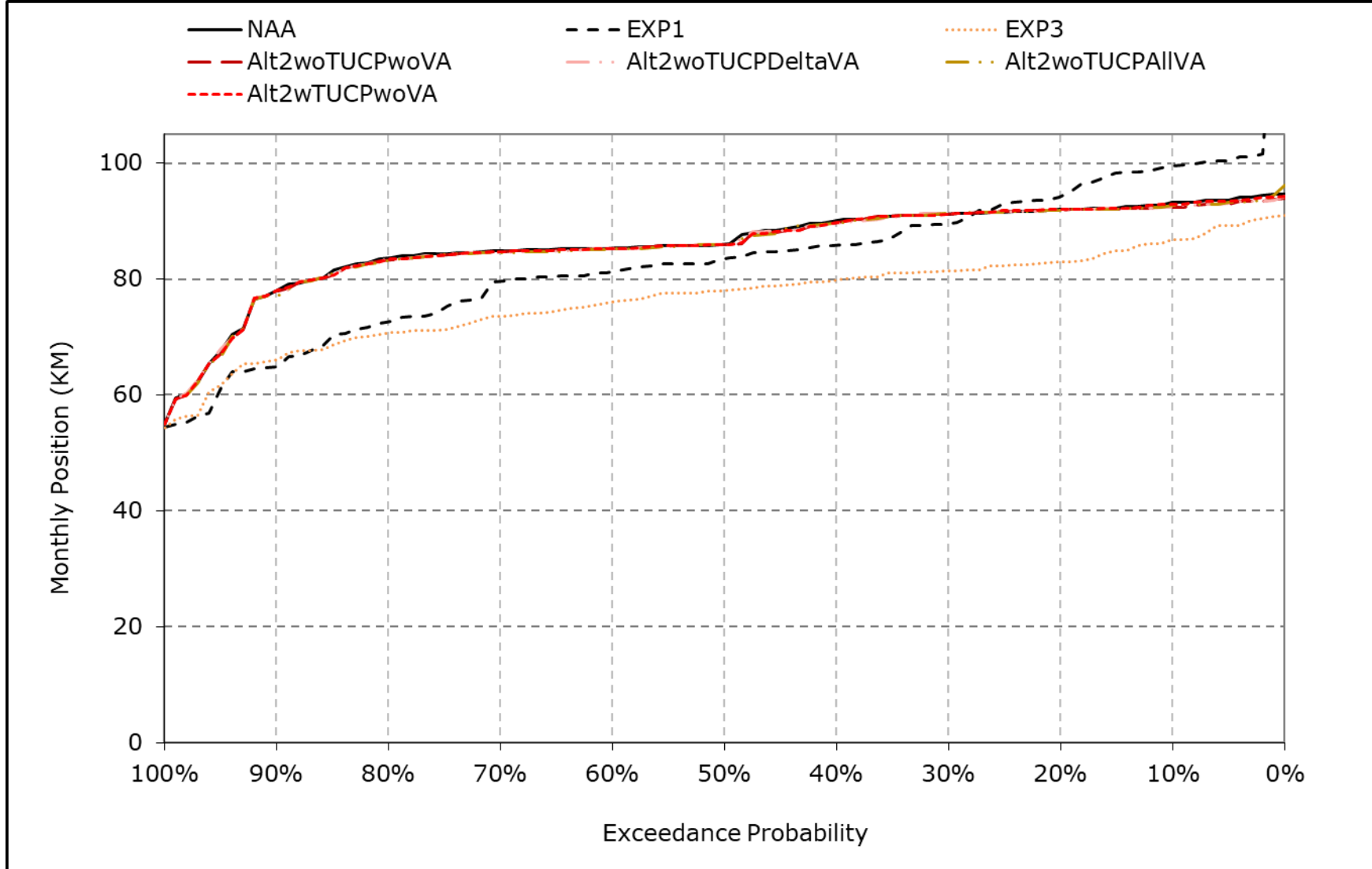
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-16. X2, October Position**



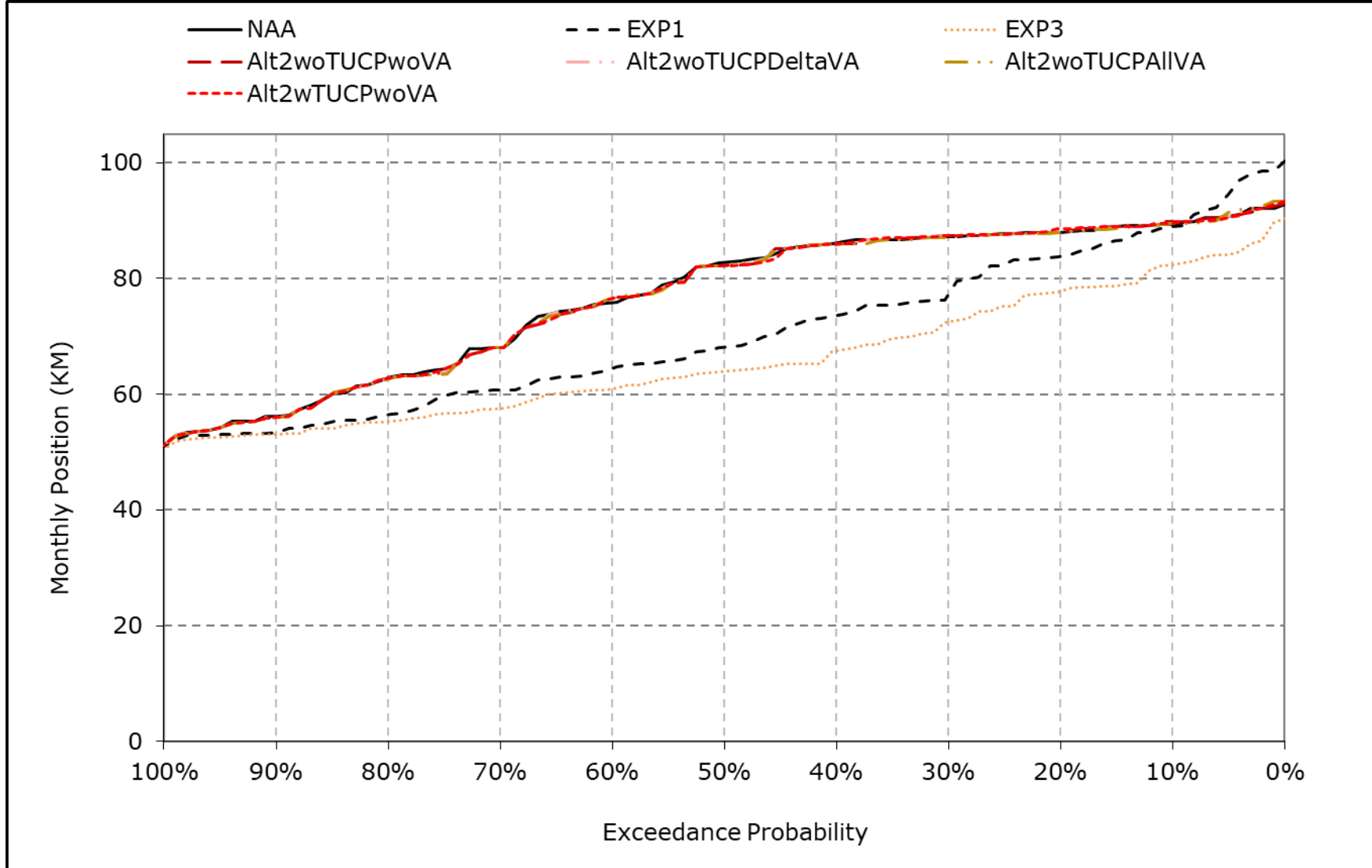
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-17. X2, November Position**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.6-1-18. X2, December Position**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



— BUREAU OF —  
RECLAMATION

# **Appendix F: Modeling**

**Attachment 2-7, DSM2 - Chloride**

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The following results of the DSM2 QUAL model with 2022 Median climate conditions and 15 cm sea level rise are included for salinity results at key project locations for the following alternatives:

- No Action Alternative 090723 (NAA)
- EXP1 090623 (EXP1)
- EXP3 090623 (EXP3)
- Alt2woTUCPwoVA 090723 (Alt2woTUCPwoVA)
- Alt2woTUCPDeltaVA 090723 (Alt2woTUCPDeltaVA)
- Alt2woTUCPAIIVA 090723 (Alt2woTUCPAIIVA)
- Alt2wTUCPwoVA 090723 (Alt2wTUCPwoVA)

| Section  | Output Parameters                                | Table Numbers             | Figure Numbers          |
|----------|--------------------------------------------------|---------------------------|-------------------------|
| Chloride | Contra Costa Pumping Plant Chloride              | F.2.7-1-1a to F.2.7-1-10c | F.2.7-1-1 to F.2.7-1-18 |
| Chloride | San Joaquin River at Antioch Chloride            | F.2.7-2-1a to F.2.7-2-10c | F.2.7-2-1 to F.2.7-2-18 |
| Chloride | Banks Pumping Plant South Delta Exports Chloride | F.2.7-3-1a to F.2.7-3-10c | F.2.7-3-1 to F.2.7-3-18 |
| Chloride | Jones Pumping Plant South Delta Exports Chloride | F.2.7-4-1a to F.2.7-4-10c | F.2.7-4-1 to F.2.7-4-18 |
| Chloride | North Bay Aqueduct Chloride                      | F.2.7-5-1a to F.2.7-5-10c | F.2.7-5-1 to F.2.7-5-18 |

#### Report formats

- Monthly tables include a comparison of an alternative and the baseline (NAA, and EXP1) (exceedance values, long-term average, and average by water year type) by subtracting the values in the NAA or EXP1 table (the table presented at the top of the page) from the values in the alternative table (the second table from the top of the page).
- Monthly pattern charts (long-term average and average by water year type) including all alternatives.
- Monthly exceedance charts (all months) including all alternatives.





**Table F.2.7-1-1a. Contra Costa Pumping Plant Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 186 | 218 | 224 | 216 | 115 | 50  | 55  | 60  | 83  | 129 | 142 | 165 |
| 20% Exceedance                              | 172 | 193 | 213 | 162 | 91  | 42  | 49  | 44  | 29  | 55  | 100 | 149 |
| 30% Exceedance                              | 164 | 164 | 202 | 122 | 59  | 37  | 40  | 38  | 28  | 45  | 84  | 137 |
| 40% Exceedance                              | 155 | 153 | 191 | 104 | 44  | 34  | 38  | 35  | 27  | 40  | 73  | 126 |
| 50% Exceedance                              | 136 | 134 | 172 | 77  | 38  | 31  | 36  | 32  | 26  | 35  | 57  | 114 |
| 60% Exceedance                              | 23  | 46  | 115 | 43  | 31  | 29  | 32  | 30  | 25  | 27  | 44  | 48  |
| 70% Exceedance                              | 22  | 42  | 93  | 31  | 28  | 28  | 30  | 28  | 24  | 24  | 34  | 41  |
| 80% Exceedance                              | 21  | 35  | 75  | 26  | 25  | 26  | 28  | 27  | 22  | 23  | 28  | 34  |
| 90% Exceedance                              | 21  | 27  | 39  | 22  | 22  | 24  | 25  | 21  | 17  | 21  | 27  | 30  |
| Full Simulation Period Average <sup>a</sup> | 103 | 113 | 146 | 93  | 57  | 36  | 39  | 39  | 37  | 49  | 70  | 96  |
| Wet Water Years (28%)                       | 22  | 37  | 117 | 38  | 36  | 27  | 27  | 23  | 20  | 23  | 30  | 34  |
| Above Normal Years (14%)                    | 22  | 37  | 138 | 75  | 38  | 32  | 41  | 34  | 25  | 25  | 32  | 38  |
| Below Normal Years (18%)                    | 146 | 146 | 140 | 96  | 46  | 33  | 39  | 34  | 26  | 37  | 70  | 133 |
| Dry Water Years (24%)                       | 165 | 157 | 146 | 129 | 70  | 36  | 36  | 35  | 27  | 48  | 86  | 127 |
| Critical Water Years (16%)                  | 185 | 221 | 213 | 147 | 102 | 59  | 59  | 81  | 106 | 128 | 150 | 164 |

**Table F.2.7-1-1b. Contra Costa Pumping Plant Chloride, Alt2woTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 197 | 220 | 218 | 196 | 115 | 58  | 48  | 45  | 53  | 84  | 109 | 149 |
| 20% Exceedance                              | 185 | 186 | 210 | 166 | 79  | 41  | 40  | 37  | 30  | 51  | 92  | 140 |
| 30% Exceedance                              | 164 | 163 | 196 | 126 | 56  | 37  | 36  | 32  | 29  | 44  | 82  | 136 |
| 40% Exceedance                              | 154 | 151 | 186 | 94  | 44  | 34  | 33  | 30  | 28  | 39  | 73  | 130 |
| 50% Exceedance                              | 141 | 117 | 166 | 71  | 40  | 32  | 31  | 29  | 26  | 34  | 59  | 115 |
| 60% Exceedance                              | 25  | 47  | 108 | 44  | 32  | 29  | 29  | 27  | 24  | 26  | 49  | 53  |
| 70% Exceedance                              | 23  | 40  | 92  | 32  | 29  | 27  | 28  | 26  | 23  | 25  | 37  | 45  |
| 80% Exceedance                              | 21  | 34  | 72  | 26  | 26  | 26  | 27  | 24  | 22  | 23  | 30  | 37  |
| 90% Exceedance                              | 21  | 26  | 38  | 22  | 23  | 23  | 21  | 18  | 17  | 21  | 28  | 31  |
| Full Simulation Period Average <sup>a</sup> | 107 | 113 | 141 | 93  | 56  | 36  | 34  | 31  | 32  | 42  | 64  | 95  |
| Wet Water Years (28%)                       | 22  | 37  | 115 | 35  | 36  | 26  | 24  | 20  | 20  | 23  | 32  | 37  |
| Above Normal Years (14%)                    | 22  | 35  | 135 | 74  | 40  | 32  | 32  | 28  | 24  | 24  | 37  | 43  |
| Below Normal Years (18%)                    | 149 | 142 | 136 | 99  | 46  | 33  | 33  | 29  | 26  | 38  | 72  | 130 |
| Dry Water Years (24%)                       | 168 | 159 | 148 | 127 | 66  | 36  | 34  | 32  | 28  | 48  | 89  | 133 |
| Critical Water Years (16%)                  | 202 | 220 | 192 | 153 | 102 | 62  | 52  | 54  | 72  | 86  | 101 | 145 |

**Table F.2.7-1-1c. Contra Costa Pumping Plant Chloride, Alt2woTUCPwoVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 11  | 3   | -6  | -20 | 0   | 8   | -7  | -15 | -30 | -45 | -33 | -16 |
| 20% Exceedance                              | 13  | -6  | -3  | 3   | -12 | -1  | -9  | -8  | 0   | -4  | -8  | -8  |
| 30% Exceedance                              | 0   | -1  | -6  | 3   | -3  | 1   | -4  | -6  | 1   | -1  | -2  | -2  |
| 40% Exceedance                              | -1  | -2  | -6  | -9  | 1   | 0   | -5  | -5  | 0   | -1  | 1   | 3   |
| 50% Exceedance                              | 6   | -17 | -6  | -6  | 3   | 1   | -5  | -3  | 0   | -1  | 2   | 1   |
| 60% Exceedance                              | 2   | 1   | -7  | 0   | 1   | 0   | -3  | -3  | -1  | 0   | 5   | 5   |
| 70% Exceedance                              | 1   | -2  | -2  | 1   | 1   | 0   | -1  | -3  | -1  | 0   | 4   | 5   |
| 80% Exceedance                              | 0   | -1  | -2  | 0   | 1   | 0   | -2  | -3  | -1  | 0   | 1   | 3   |
| 90% Exceedance                              | 0   | -1  | -2  | 0   | 0   | -1  | -4  | -3  | 0   | 0   | 1   | 1   |
| Full Simulation Period Average <sup>a</sup> | 4   | 0   | -4  | 0   | -1  | 0   | -5  | -8  | -6  | -7  | -6  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | -2  | -2  | 0   | -1  | -3  | -3  | 0   | 0   | 1   | 2   |
| Above Normal Years (14%)                    | 0   | -1  | -3  | -1  | 2   | 0   | -9  | -6  | -1  | -1  | 5   | 5   |
| Below Normal Years (18%)                    | 3   | -4  | -4  | 3   | 0   | 0   | -6  | -5  | 0   | 0   | 2   | -3  |
| Dry Water Years (24%)                       | 3   | 3   | 1   | -3  | -4  | 0   | -2  | -3  | 0   | 0   | 3   | 5   |
| Critical Water Years (16%)                  | 17  | -1  | -20 | 6   | 0   | 3   | -7  | -28 | -34 | -42 | -49 | -19 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-1-2a. Contra Costa Pumping Plant Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 186 | 218 | 224 | 216 | 115 | 50  | 55  | 60  | 83  | 129 | 142 | 165 |
| 20% Exceedance                              | 172 | 193 | 213 | 162 | 91  | 42  | 49  | 44  | 29  | 55  | 100 | 149 |
| 30% Exceedance                              | 164 | 164 | 202 | 122 | 59  | 37  | 40  | 38  | 28  | 45  | 84  | 137 |
| 40% Exceedance                              | 155 | 153 | 191 | 104 | 44  | 34  | 38  | 35  | 27  | 40  | 73  | 126 |
| 50% Exceedance                              | 136 | 134 | 172 | 77  | 38  | 31  | 36  | 32  | 26  | 35  | 57  | 114 |
| 60% Exceedance                              | 23  | 46  | 115 | 43  | 31  | 29  | 32  | 30  | 25  | 27  | 44  | 48  |
| 70% Exceedance                              | 22  | 42  | 93  | 31  | 28  | 28  | 30  | 28  | 24  | 24  | 34  | 41  |
| 80% Exceedance                              | 21  | 35  | 75  | 26  | 25  | 26  | 28  | 27  | 22  | 23  | 28  | 34  |
| 90% Exceedance                              | 21  | 27  | 39  | 22  | 22  | 24  | 25  | 21  | 17  | 21  | 27  | 30  |
| Full Simulation Period Average <sup>a</sup> | 103 | 113 | 146 | 93  | 57  | 36  | 39  | 39  | 37  | 49  | 70  | 96  |
| Wet Water Years (28%)                       | 22  | 37  | 117 | 38  | 36  | 27  | 27  | 23  | 20  | 23  | 30  | 34  |
| Above Normal Years (14%)                    | 22  | 37  | 138 | 75  | 38  | 32  | 41  | 34  | 25  | 25  | 32  | 38  |
| Below Normal Years (18%)                    | 146 | 146 | 140 | 96  | 46  | 33  | 39  | 34  | 26  | 37  | 70  | 133 |
| Dry Water Years (24%)                       | 165 | 157 | 146 | 129 | 70  | 36  | 36  | 35  | 27  | 48  | 86  | 127 |
| Critical Water Years (16%)                  | 185 | 221 | 213 | 147 | 102 | 59  | 59  | 81  | 106 | 128 | 150 | 164 |

**Table F.2.7-1-2b. Contra Costa Pumping Plant Chloride, Alt2woTUCPDeltaVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 201 | 221 | 221 | 210 | 119 | 60  | 64  | 46  | 52  | 86  | 110 | 154 |
| 20% Exceedance                              | 184 | 186 | 211 | 162 | 82  | 49  | 54  | 42  | 31  | 53  | 98  | 144 |
| 30% Exceedance                              | 165 | 166 | 200 | 119 | 57  | 46  | 48  | 38  | 29  | 44  | 85  | 140 |
| 40% Exceedance                              | 154 | 148 | 186 | 97  | 45  | 42  | 46  | 36  | 28  | 39  | 75  | 131 |
| 50% Exceedance                              | 143 | 125 | 161 | 75  | 40  | 39  | 42  | 33  | 26  | 36  | 63  | 118 |
| 60% Exceedance                              | 25  | 47  | 108 | 44  | 32  | 37  | 38  | 31  | 24  | 26  | 49  | 52  |
| 70% Exceedance                              | 23  | 42  | 95  | 32  | 29  | 32  | 34  | 28  | 24  | 25  | 36  | 45  |
| 80% Exceedance                              | 21  | 38  | 73  | 26  | 26  | 27  | 30  | 25  | 22  | 23  | 29  | 36  |
| 90% Exceedance                              | 21  | 27  | 38  | 22  | 23  | 23  | 24  | 18  | 17  | 21  | 28  | 31  |
| Full Simulation Period Average <sup>a</sup> | 108 | 114 | 142 | 93  | 58  | 42  | 43  | 34  | 32  | 42  | 66  | 97  |
| Wet Water Years (28%)                       | 22  | 38  | 115 | 36  | 36  | 27  | 29  | 21  | 20  | 23  | 31  | 36  |
| Above Normal Years (14%)                    | 22  | 37  | 137 | 74  | 40  | 41  | 52  | 34  | 25  | 26  | 37  | 41  |
| Below Normal Years (18%)                    | 150 | 143 | 139 | 100 | 47  | 45  | 47  | 33  | 26  | 38  | 73  | 134 |
| Dry Water Years (24%)                       | 168 | 159 | 146 | 123 | 67  | 42  | 43  | 36  | 28  | 49  | 93  | 138 |
| Critical Water Years (16%)                  | 208 | 224 | 195 | 155 | 109 | 68  | 54  | 54  | 72  | 86  | 103 | 149 |

**Table F.2.7-1-2c. Contra Costa Pumping Plant Chloride, Alt2woTUCPDeltaVA minus NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 15  | 4   | -3  | -7  | 4   | 10  | 9   | -14 | -30 | -43 | -32 | -11 |
| 20% Exceedance                              | 12  | -6  | -2  | -1  | -9  | 7   | 5   | -3  | 2   | -2  | -2  | -5  |
| 30% Exceedance                              | 1   | 2   | -3  | -3  | -2  | 9   | 9   | 0   | 1   | -1  | 0   | 2   |
| 40% Exceedance                              | -1  | -6  | -5  | -7  | 1   | 8   | 8   | 1   | 1   | -1  | 3   | 5   |
| 50% Exceedance                              | 8   | -9  | -11 | -2  | 3   | 8   | 6   | 1   | 0   | 0   | 6   | 4   |
| 60% Exceedance                              | 2   | 1   | -7  | 1   | 1   | 7   | 6   | 1   | -1  | -1  | 5   | 5   |
| 70% Exceedance                              | 0   | 0   | 1   | 1   | 1   | 4   | 5   | 0   | 0   | 0   | 3   | 4   |
| 80% Exceedance                              | 0   | 2   | -1  | 0   | 0   | 0   | 2   | -2  | 0   | 0   | 1   | 2   |
| 90% Exceedance                              | 0   | 0   | -2  | 0   | 0   | -1  | -1  | -3  | 0   | 0   | 1   | 1   |
| Full Simulation Period Average <sup>a</sup> | 5   | 1   | -4  | 0   | 1   | 6   | 4   | -5  | -5  | -6  | -4  | 1   |
| Wet Water Years (28%)                       | 0   | 1   | -1  | -2  | 0   | 0   | 1   | -2  | 0   | 0   | 1   | 2   |
| Above Normal Years (14%)                    | 0   | 0   | -1  | -1  | 2   | 9   | 11  | 1   | 0   | 1   | 4   | 4   |
| Below Normal Years (18%)                    | 4   | -3  | -1  | 4   | 1   | 12  | 8   | -1  | 0   | 0   | 3   | 1   |
| Dry Water Years (24%)                       | 3   | 2   | -1  | -6  | -4  | 5   | 7   | 2   | 1   | 1   | 7   | 11  |
| Critical Water Years (16%)                  | 23  | 3   | -18 | 8   | 7   | 9   | -5  | -27 | -34 | -42 | -47 | -15 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-1-3a. Contra Costa Pumping Plant Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 186 | 218 | 224 | 216 | 115 | 50  | 55  | 60  | 83  | 129 | 142 | 165 |
| 20% Exceedance                              | 172 | 193 | 213 | 162 | 91  | 42  | 49  | 44  | 29  | 55  | 100 | 149 |
| 30% Exceedance                              | 164 | 164 | 202 | 122 | 59  | 37  | 40  | 38  | 28  | 45  | 84  | 137 |
| 40% Exceedance                              | 155 | 153 | 191 | 104 | 44  | 34  | 38  | 35  | 27  | 40  | 73  | 126 |
| 50% Exceedance                              | 136 | 134 | 172 | 77  | 38  | 31  | 36  | 32  | 26  | 35  | 57  | 114 |
| 60% Exceedance                              | 23  | 46  | 115 | 43  | 31  | 29  | 32  | 30  | 25  | 27  | 44  | 48  |
| 70% Exceedance                              | 22  | 42  | 93  | 31  | 28  | 28  | 30  | 28  | 24  | 24  | 34  | 41  |
| 80% Exceedance                              | 21  | 35  | 75  | 26  | 25  | 26  | 28  | 27  | 22  | 23  | 28  | 34  |
| 90% Exceedance                              | 21  | 27  | 39  | 22  | 22  | 24  | 25  | 21  | 17  | 21  | 27  | 30  |
| Full Simulation Period Average <sup>a</sup> | 103 | 113 | 146 | 93  | 57  | 36  | 39  | 39  | 37  | 49  | 70  | 96  |
| Wet Water Years (28%)                       | 22  | 37  | 117 | 38  | 36  | 27  | 27  | 23  | 20  | 23  | 30  | 34  |
| Above Normal Years (14%)                    | 22  | 37  | 138 | 75  | 38  | 32  | 41  | 34  | 25  | 25  | 32  | 38  |
| Below Normal Years (18%)                    | 146 | 146 | 140 | 96  | 46  | 33  | 39  | 34  | 26  | 37  | 70  | 133 |
| Dry Water Years (24%)                       | 165 | 157 | 146 | 129 | 70  | 36  | 36  | 35  | 27  | 48  | 86  | 127 |
| Critical Water Years (16%)                  | 185 | 221 | 213 | 147 | 102 | 59  | 59  | 81  | 106 | 128 | 150 | 164 |

**Table F.2.7-1-3b. Contra Costa Pumping Plant Chloride, Alt2woTUCPAIIVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 198 | 219 | 223 | 196 | 118 | 61  | 62  | 45  | 45  | 82  | 111 | 156 |
| 20% Exceedance                              | 178 | 186 | 211 | 155 | 82  | 50  | 53  | 40  | 30  | 52  | 100 | 146 |
| 30% Exceedance                              | 166 | 164 | 199 | 116 | 58  | 46  | 48  | 36  | 28  | 44  | 84  | 139 |
| 40% Exceedance                              | 154 | 149 | 187 | 101 | 44  | 42  | 46  | 34  | 27  | 40  | 74  | 130 |
| 50% Exceedance                              | 143 | 136 | 157 | 77  | 39  | 39  | 42  | 32  | 25  | 34  | 61  | 119 |
| 60% Exceedance                              | 25  | 48  | 109 | 44  | 32  | 36  | 38  | 30  | 24  | 26  | 47  | 51  |
| 70% Exceedance                              | 23  | 42  | 95  | 32  | 29  | 32  | 34  | 27  | 23  | 25  | 34  | 43  |
| 80% Exceedance                              | 21  | 38  | 74  | 26  | 26  | 27  | 30  | 25  | 22  | 23  | 29  | 36  |
| 90% Exceedance                              | 21  | 26  | 37  | 22  | 23  | 23  | 24  | 18  | 17  | 21  | 27  | 30  |
| Full Simulation Period Average <sup>a</sup> | 107 | 114 | 143 | 92  | 58  | 42  | 42  | 33  | 30  | 41  | 65  | 97  |
| Wet Water Years (28%)                       | 22  | 38  | 115 | 37  | 36  | 28  | 29  | 20  | 20  | 23  | 31  | 36  |
| Above Normal Years (14%)                    | 22  | 37  | 137 | 74  | 39  | 40  | 51  | 33  | 24  | 24  | 34  | 40  |
| Below Normal Years (18%)                    | 149 | 143 | 138 | 96  | 47  | 45  | 46  | 31  | 26  | 38  | 72  | 134 |
| Dry Water Years (24%)                       | 166 | 156 | 145 | 120 | 65  | 41  | 43  | 36  | 27  | 50  | 94  | 138 |
| Critical Water Years (16%)                  | 210 | 227 | 203 | 156 | 114 | 69  | 54  | 51  | 63  | 81  | 101 | 148 |

**Table F.2.7-1-3c. Contra Costa Pumping Plant Chloride, Alt2woTUCPAIIVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 13  | 1   | -1  | -20 | 2   | 11  | 7   | -15 | -38 | -47 | -31 | -10 |
| 20% Exceedance                              | 6   | -7  | -2  | -8  | -8  | 8   | 4   | -4  | 1   | -4  | -1  | -2  |
| 30% Exceedance                              | 2   | 0   | -3  | -6  | -2  | 9   | 8   | -2  | 0   | -2  | 0   | 2   |
| 40% Exceedance                              | -1  | -4  | -4  | -2  | 0   | 8   | 8   | -1  | -1  | 0   | 2   | 4   |
| 50% Exceedance                              | 8   | 2   | -15 | 0   | 2   | 8   | 6   | 0   | -1  | -1  | 4   | 4   |
| 60% Exceedance                              | 2   | 2   | -6  | 1   | 1   | 7   | 6   | 0   | -1  | -1  | 3   | 3   |
| 70% Exceedance                              | 0   | 0   | 2   | 1   | 0   | 4   | 5   | -1  | -1  | 0   | 1   | 3   |
| 80% Exceedance                              | 0   | 3   | -1  | 0   | 0   | 0   | 1   | -2  | 0   | 0   | 0   | 2   |
| 90% Exceedance                              | 0   | -1  | -2  | 0   | 0   | -1  | -1  | -3  | 0   | 0   | 1   | 0   |
| Full Simulation Period Average <sup>a</sup> | 5   | 1   | -2  | -1  | 1   | 6   | 4   | -6  | -7  | -7  | -5  | 1   |
| Wet Water Years (28%)                       | 0   | 1   | -1  | -1  | 0   | 0   | 1   | -2  | 0   | 0   | 1   | 2   |
| Above Normal Years (14%)                    | 0   | 0   | -1  | -1  | 1   | 9   | 10  | 0   | 0   | -1  | 2   | 2   |
| Below Normal Years (18%)                    | 3   | -2  | -2  | 0   | 1   | 12  | 7   | -3  | 0   | 1   | 2   | 1   |
| Dry Water Years (24%)                       | 1   | 0   | -1  | -9  | -6  | 5   | 7   | 1   | 0   | 2   | 8   | 11  |
| Critical Water Years (16%)                  | 25  | 7   | -10 | 9   | 12  | 10  | -5  | -31 | -42 | -47 | -49 | -16 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-1-4a. Contra Costa Pumping Plant Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 186 | 218 | 224 | 216 | 115 | 50  | 55  | 60  | 83  | 129 | 142 | 165 |
| 20% Exceedance                              | 172 | 193 | 213 | 162 | 91  | 42  | 49  | 44  | 29  | 55  | 100 | 149 |
| 30% Exceedance                              | 164 | 164 | 202 | 122 | 59  | 37  | 40  | 38  | 28  | 45  | 84  | 137 |
| 40% Exceedance                              | 155 | 153 | 191 | 104 | 44  | 34  | 38  | 35  | 27  | 40  | 73  | 126 |
| 50% Exceedance                              | 136 | 134 | 172 | 77  | 38  | 31  | 36  | 32  | 26  | 35  | 57  | 114 |
| 60% Exceedance                              | 23  | 46  | 115 | 43  | 31  | 29  | 32  | 30  | 25  | 27  | 44  | 48  |
| 70% Exceedance                              | 22  | 42  | 93  | 31  | 28  | 28  | 30  | 28  | 24  | 24  | 34  | 41  |
| 80% Exceedance                              | 21  | 35  | 75  | 26  | 25  | 26  | 28  | 27  | 22  | 23  | 28  | 34  |
| 90% Exceedance                              | 21  | 27  | 39  | 22  | 22  | 24  | 25  | 21  | 17  | 21  | 27  | 30  |
| Full Simulation Period Average <sup>a</sup> | 103 | 113 | 146 | 93  | 57  | 36  | 39  | 39  | 37  | 49  | 70  | 96  |
| Wet Water Years (28%)                       | 22  | 37  | 117 | 38  | 36  | 27  | 27  | 23  | 20  | 23  | 30  | 34  |
| Above Normal Years (14%)                    | 22  | 37  | 138 | 75  | 38  | 32  | 41  | 34  | 25  | 25  | 32  | 38  |
| Below Normal Years (18%)                    | 146 | 146 | 140 | 96  | 46  | 33  | 39  | 34  | 26  | 37  | 70  | 133 |
| Dry Water Years (24%)                       | 165 | 157 | 146 | 129 | 70  | 36  | 36  | 35  | 27  | 48  | 86  | 127 |
| Critical Water Years (16%)                  | 185 | 221 | 213 | 147 | 102 | 59  | 59  | 81  | 106 | 128 | 150 | 164 |

**Table F.2.7-1-4b. Contra Costa Pumping Plant Chloride, Alt2wTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 190 | 219 | 232 | 196 | 113 | 51  | 48  | 51  | 81  | 126 | 144 | 163 |
| 20% Exceedance                              | 173 | 188 | 212 | 162 | 79  | 41  | 40  | 37  | 30  | 54  | 99  | 145 |
| 30% Exceedance                              | 162 | 164 | 201 | 128 | 57  | 37  | 36  | 32  | 29  | 44  | 84  | 139 |
| 40% Exceedance                              | 154 | 151 | 189 | 95  | 46  | 34  | 33  | 30  | 28  | 39  | 79  | 131 |
| 50% Exceedance                              | 140 | 118 | 170 | 69  | 39  | 32  | 31  | 29  | 26  | 35  | 59  | 118 |
| 60% Exceedance                              | 25  | 47  | 112 | 44  | 32  | 29  | 29  | 27  | 24  | 26  | 49  | 53  |
| 70% Exceedance                              | 23  | 40  | 92  | 32  | 29  | 28  | 28  | 25  | 23  | 25  | 38  | 45  |
| 80% Exceedance                              | 21  | 34  | 72  | 26  | 26  | 26  | 27  | 24  | 22  | 23  | 30  | 37  |
| 90% Exceedance                              | 21  | 27  | 38  | 22  | 23  | 23  | 21  | 18  | 17  | 21  | 28  | 31  |
| Full Simulation Period Average <sup>a</sup> | 104 | 113 | 144 | 92  | 55  | 36  | 35  | 35  | 36  | 48  | 72  | 98  |
| Wet Water Years (28%)                       | 22  | 37  | 115 | 35  | 36  | 26  | 24  | 20  | 20  | 23  | 32  | 37  |
| Above Normal Years (14%)                    | 22  | 35  | 135 | 74  | 41  | 32  | 32  | 28  | 24  | 24  | 37  | 43  |
| Below Normal Years (18%)                    | 148 | 141 | 138 | 94  | 45  | 33  | 33  | 29  | 26  | 38  | 74  | 134 |
| Dry Water Years (24%)                       | 168 | 159 | 149 | 130 | 67  | 36  | 34  | 32  | 28  | 48  | 89  | 133 |
| Critical Water Years (16%)                  | 187 | 224 | 204 | 146 | 92  | 59  | 58  | 78  | 102 | 123 | 144 | 160 |

**Table F.2.7-1-4c. Contra Costa Pumping Plant Chloride, Alt2wTUCPwoVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 4   | 2   | 8   | -20 | -2  | 1   | -7  | -9  | -2  | -3  | 2   | -2  |
| 20% Exceedance                              | 2   | -4  | -1  | -1  | -11 | -1  | -9  | -8  | 0   | -1  | -1  | -4  |
| 30% Exceedance                              | -2  | 0   | -1  | 5   | -2  | 0   | -3  | -6  | 1   | -1  | 0   | 1   |
| 40% Exceedance                              | -1  | -3  | -2  | -9  | 3   | 0   | -5  | -5  | 0   | -1  | 6   | 4   |
| 50% Exceedance                              | 4   | -17 | -2  | -8  | 1   | 1   | -5  | -3  | 0   | 0   | 2   | 4   |
| 60% Exceedance                              | 2   | 1   | -3  | 0   | 1   | 0   | -3  | -3  | -1  | 0   | 5   | 5   |
| 70% Exceedance                              | 1   | -2  | -2  | 1   | 1   | 0   | -1  | -3  | -1  | 0   | 4   | 5   |
| 80% Exceedance                              | 0   | -1  | -2  | 0   | 1   | 0   | -2  | -3  | -1  | 0   | 2   | 3   |
| 90% Exceedance                              | 0   | -1  | -2  | 0   | 0   | -1  | -4  | -3  | 0   | 0   | 1   | 1   |
| Full Simulation Period Average <sup>a</sup> | 2   | 0   | -2  | -1  | -2  | 0   | -4  | -4  | -1  | -1  | 2   | 2   |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -2  | 0   | -1  | -3  | -3  | 0   | 0   | 1   | 2   |
| Above Normal Years (14%)                    | 0   | -1  | -3  | -1  | 3   | 1   | -9  | -6  | -1  | -1  | 5   | 5   |
| Below Normal Years (18%)                    | 2   | -5  | -2  | -2  | 0   | 0   | -6  | -6  | 0   | 0   | 4   | 1   |
| Dry Water Years (24%)                       | 3   | 2   | 2   | 0   | -4  | 0   | -2  | -3  | 0   | 0   | 3   | 6   |
| Critical Water Years (16%)                  | 2   | 3   | -9  | -1  | -10 | 0   | -1  | -4  | -4  | -5  | -6  | -4  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-1-5a. Contra Costa Pumping Plant Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 186 | 218 | 224 | 216 | 115 | 50  | 55  | 60  | 83  | 129 | 142 | 165 |
| 20% Exceedance                              | 172 | 193 | 213 | 162 | 91  | 42  | 49  | 44  | 29  | 55  | 100 | 149 |
| 30% Exceedance                              | 164 | 164 | 202 | 122 | 59  | 37  | 40  | 38  | 28  | 45  | 84  | 137 |
| 40% Exceedance                              | 155 | 153 | 191 | 104 | 44  | 34  | 38  | 35  | 27  | 40  | 73  | 126 |
| 50% Exceedance                              | 136 | 134 | 172 | 77  | 38  | 31  | 36  | 32  | 26  | 35  | 57  | 114 |
| 60% Exceedance                              | 23  | 46  | 115 | 43  | 31  | 29  | 32  | 30  | 25  | 27  | 44  | 48  |
| 70% Exceedance                              | 22  | 42  | 93  | 31  | 28  | 28  | 30  | 28  | 24  | 24  | 34  | 41  |
| 80% Exceedance                              | 21  | 35  | 75  | 26  | 25  | 26  | 28  | 27  | 22  | 23  | 28  | 34  |
| 90% Exceedance                              | 21  | 27  | 39  | 22  | 22  | 24  | 25  | 21  | 17  | 21  | 27  | 30  |
| Full Simulation Period Average <sup>a</sup> | 103 | 113 | 146 | 93  | 57  | 36  | 39  | 39  | 37  | 49  | 70  | 96  |
| Wet Water Years (28%)                       | 22  | 37  | 117 | 38  | 36  | 27  | 27  | 23  | 20  | 23  | 30  | 34  |
| Above Normal Years (14%)                    | 22  | 37  | 138 | 75  | 38  | 32  | 41  | 34  | 25  | 25  | 32  | 38  |
| Below Normal Years (18%)                    | 146 | 146 | 140 | 96  | 46  | 33  | 39  | 34  | 26  | 37  | 70  | 133 |
| Dry Water Years (24%)                       | 165 | 157 | 146 | 129 | 70  | 36  | 36  | 35  | 27  | 48  | 86  | 127 |
| Critical Water Years (16%)                  | 185 | 221 | 213 | 147 | 102 | 59  | 59  | 81  | 106 | 128 | 150 | 164 |

**Table F.2.7-1-5b. Contra Costa Pumping Plant Chloride, EXP3, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 123 | 120 | 153 | 180 | 187 | 181 | 154 | 118 | 102 | 122 | 142 | 149 |
| 20% Exceedance                              | 107 | 112 | 141 | 166 | 167 | 169 | 149 | 113 | 94  | 109 | 121 | 130 |
| 30% Exceedance                              | 97  | 107 | 130 | 148 | 159 | 165 | 147 | 110 | 90  | 99  | 106 | 112 |
| 40% Exceedance                              | 93  | 100 | 125 | 140 | 152 | 162 | 139 | 107 | 82  | 83  | 87  | 96  |
| 50% Exceedance                              | 90  | 95  | 114 | 133 | 145 | 152 | 129 | 95  | 74  | 74  | 77  | 82  |
| 60% Exceedance                              | 88  | 92  | 111 | 127 | 139 | 122 | 77  | 71  | 71  | 71  | 72  | 80  |
| 70% Exceedance                              | 84  | 88  | 104 | 119 | 112 | 76  | 59  | 56  | 66  | 67  | 69  | 76  |
| 80% Exceedance                              | 81  | 85  | 97  | 104 | 50  | 57  | 42  | 34  | 57  | 62  | 66  | 71  |
| 90% Exceedance                              | 76  | 79  | 90  | 36  | 24  | 24  | 19  | 8   | 32  | 56  | 58  | 64  |
| Full Simulation Period Average <sup>a</sup> | 95  | 98  | 116 | 127 | 124 | 121 | 101 | 78  | 73  | 85  | 93  | 99  |
| Wet Water Years (28%)                       | 82  | 92  | 108 | 102 | 74  | 57  | 38  | 30  | 46  | 64  | 69  | 73  |
| Above Normal Years (14%)                    | 84  | 92  | 126 | 144 | 125 | 109 | 87  | 71  | 67  | 66  | 64  | 71  |
| Below Normal Years (18%)                    | 87  | 96  | 119 | 134 | 132 | 132 | 111 | 87  | 77  | 81  | 81  | 87  |
| Dry Water Years (24%)                       | 98  | 96  | 107 | 134 | 153 | 163 | 142 | 106 | 86  | 94  | 103 | 111 |
| Critical Water Years (16%)                  | 133 | 121 | 133 | 137 | 161 | 169 | 150 | 118 | 105 | 131 | 160 | 167 |

**Table F.2.7-1-5c. Contra Costa Pumping Plant Chloride, EXP3 minus NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov  | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -62 | -98  | -72 | -37 | 72  | 131 | 99  | 57  | 20  | -7  | 0   | -16 |
| 20% Exceedance                              | -65 | -81  | -72 | 3   | 77  | 127 | 100 | 69  | 65  | 54  | 20  | -19 |
| 30% Exceedance                              | -67 | -58  | -72 | 26  | 100 | 128 | 107 | 72  | 62  | 54  | 22  | -25 |
| 40% Exceedance                              | -62 | -53  | -66 | 36  | 108 | 128 | 102 | 72  | 55  | 43  | 15  | -30 |
| 50% Exceedance                              | -45 | -39  | -58 | 56  | 107 | 121 | 94  | 63  | 48  | 39  | 20  | -32 |
| 60% Exceedance                              | 65  | 46   | -4  | 84  | 108 | 93  | 45  | 42  | 47  | 44  | 28  | 32  |
| 70% Exceedance                              | 61  | 46   | 11  | 88  | 84  | 48  | 29  | 28  | 42  | 42  | 36  | 36  |
| 80% Exceedance                              | 60  | 50   | 23  | 77  | 24  | 30  | 13  | 8   | 34  | 39  | 37  | 37  |
| 90% Exceedance                              | 55  | 52   | 50  | 14  | 1   | 1   | -6  | -13 | 15  | 35  | 31  | 35  |
| Full Simulation Period Average <sup>a</sup> | -8  | -15  | -29 | 34  | 68  | 85  | 63  | 40  | 36  | 37  | 23  | 4   |
| Wet Water Years (28%)                       | 61  | 55   | -8  | 64  | 38  | 30  | 11  | 8   | 26  | 42  | 39  | 39  |
| Above Normal Years (14%)                    | 62  | 55   | -12 | 69  | 87  | 77  | 46  | 37  | 42  | 41  | 32  | 33  |
| Below Normal Years (18%)                    | -59 | -50  | -21 | 38  | 86  | 99  | 72  | 52  | 51  | 44  | 11  | -46 |
| Dry Water Years (24%)                       | -67 | -60  | -39 | 4   | 83  | 126 | 106 | 71  | 59  | 46  | 17  | -16 |
| Critical Water Years (16%)                  | -52 | -100 | -80 | -9  | 59  | 110 | 90  | 37  | -1  | 2   | 10  | 3   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-1-6a. Contra Costa Pumping Plant Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep   |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 10% Exceedance                              | 826 | 687 | 530 | 240 | 184 | 172 | 149 | 116 | 162 | 447 | 822 | 1,035 |
| 20% Exceedance                              | 653 | 489 | 345 | 202 | 173 | 164 | 142 | 108 | 114 | 328 | 703 | 889   |
| 30% Exceedance                              | 533 | 352 | 230 | 175 | 157 | 158 | 133 | 102 | 91  | 261 | 555 | 755   |
| 40% Exceedance                              | 459 | 280 | 188 | 155 | 148 | 149 | 127 | 96  | 83  | 173 | 491 | 675   |
| 50% Exceedance                              | 325 | 213 | 163 | 144 | 142 | 138 | 98  | 78  | 75  | 130 | 381 | 568   |
| 60% Exceedance                              | 265 | 169 | 143 | 135 | 128 | 100 | 70  | 60  | 70  | 105 | 302 | 434   |
| 70% Exceedance                              | 139 | 129 | 130 | 129 | 109 | 62  | 47  | 41  | 65  | 82  | 200 | 255   |
| 80% Exceedance                              | 118 | 108 | 119 | 111 | 44  | 43  | 29  | 26  | 52  | 73  | 114 | 143   |
| 90% Exceedance                              | 104 | 102 | 102 | 39  | 22  | 21  | 11  | 5   | 27  | 61  | 91  | 101   |
| Full Simulation Period Average <sup>a</sup> | 401 | 314 | 236 | 161 | 128 | 112 | 90  | 72  | 91  | 206 | 422 | 548   |
| Wet Water Years (28%)                       | 144 | 118 | 118 | 93  | 61  | 44  | 30  | 25  | 43  | 76  | 156 | 197   |
| Above Normal Years (14%)                    | 237 | 163 | 147 | 148 | 114 | 89  | 68  | 57  | 65  | 110 | 291 | 388   |
| Below Normal Years (18%)                    | 412 | 280 | 193 | 158 | 132 | 120 | 95  | 75  | 81  | 192 | 472 | 616   |
| Dry Water Years (24%)                       | 541 | 387 | 270 | 173 | 156 | 154 | 129 | 96  | 100 | 251 | 544 | 741   |
| Critical Water Years (16%)                  | 806 | 753 | 545 | 279 | 212 | 177 | 150 | 126 | 192 | 464 | 764 | 935   |

**Table F.2.7-1-6b. Contra Costa Pumping Plant Chloride, Alt2woTUCPwoVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 197 | 220 | 218 | 196 | 115 | 58  | 48  | 45  | 53  | 84  | 109 | 149 |
| 20% Exceedance                              | 185 | 186 | 210 | 166 | 79  | 41  | 40  | 37  | 30  | 51  | 92  | 140 |
| 30% Exceedance                              | 164 | 163 | 196 | 126 | 56  | 37  | 36  | 32  | 29  | 44  | 82  | 136 |
| 40% Exceedance                              | 154 | 151 | 186 | 94  | 44  | 34  | 33  | 30  | 28  | 39  | 73  | 130 |
| 50% Exceedance                              | 141 | 117 | 166 | 71  | 40  | 32  | 31  | 29  | 26  | 34  | 59  | 115 |
| 60% Exceedance                              | 25  | 47  | 108 | 44  | 32  | 29  | 29  | 27  | 24  | 26  | 49  | 53  |
| 70% Exceedance                              | 23  | 40  | 92  | 32  | 29  | 27  | 28  | 26  | 23  | 25  | 37  | 45  |
| 80% Exceedance                              | 21  | 34  | 72  | 26  | 26  | 26  | 27  | 24  | 22  | 23  | 30  | 37  |
| 90% Exceedance                              | 21  | 26  | 38  | 22  | 23  | 23  | 21  | 18  | 17  | 21  | 28  | 31  |
| Full Simulation Period Average <sup>a</sup> | 107 | 113 | 141 | 93  | 56  | 36  | 34  | 31  | 32  | 42  | 64  | 95  |
| Wet Water Years (28%)                       | 22  | 37  | 115 | 35  | 36  | 26  | 24  | 20  | 20  | 23  | 32  | 37  |
| Above Normal Years (14%)                    | 22  | 35  | 135 | 74  | 40  | 32  | 32  | 28  | 24  | 24  | 37  | 43  |
| Below Normal Years (18%)                    | 149 | 142 | 136 | 99  | 46  | 33  | 33  | 29  | 26  | 38  | 72  | 130 |
| Dry Water Years (24%)                       | 168 | 159 | 148 | 127 | 66  | 36  | 34  | 32  | 28  | 48  | 89  | 133 |
| Critical Water Years (16%)                  | 202 | 220 | 192 | 153 | 102 | 62  | 52  | 54  | 72  | 86  | 101 | 145 |

**Table F.2.7-1-6c. Contra Costa Pumping Plant Chloride, Alt2woTUCPwoVA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|-----|------|------|------|------|
| 10% Exceedance                              | -629 | -466 | -311 | -44  | -69  | -114 | -101 | -71 | -109 | -364 | -713 | -886 |
| 20% Exceedance                              | -469 | -303 | -135 | -36  | -94  | -123 | -102 | -71 | -84  | -277 | -611 | -749 |
| 30% Exceedance                              | -369 | -189 | -34  | -50  | -101 | -121 | -98  | -71 | -63  | -216 | -472 | -620 |
| 40% Exceedance                              | -306 | -129 | -3   | -61  | -104 | -115 | -94  | -66 | -56  | -134 | -417 | -545 |
| 50% Exceedance                              | -184 | -96  | 3    | -73  | -102 | -106 | -67  | -49 | -49  | -96  | -322 | -452 |
| 60% Exceedance                              | -240 | -122 | -35  | -91  | -96  | -71  | -40  | -34 | -46  | -78  | -254 | -381 |
| 70% Exceedance                              | -117 | -88  | -38  | -98  | -80  | -34  | -19  | -15 | -41  | -57  | -162 | -210 |
| 80% Exceedance                              | -96  | -74  | -46  | -84  | -18  | -17  | -2   | -2  | -30  | -50  | -84  | -106 |
| 90% Exceedance                              | -83  | -76  | -64  | -17  | 0    | 2    | 10   | 13  | -11  | -41  | -63  | -71  |
| Full Simulation Period Average <sup>a</sup> | -294 | -201 | -95  | -68  | -72  | -76  | -56  | -41 | -59  | -164 | -358 | -453 |
| Wet Water Years (28%)                       | -122 | -81  | -3   | -58  | -25  | -18  | -6   | -5  | -24  | -54  | -124 | -161 |
| Above Normal Years (14%)                    | -215 | -127 | -12  | -74  | -73  | -57  | -36  | -30 | -41  | -86  | -254 | -345 |
| Below Normal Years (18%)                    | -263 | -138 | -57  | -59  | -86  | -87  | -62  | -46 | -55  | -155 | -401 | -485 |
| Dry Water Years (24%)                       | -373 | -227 | -122 | -46  | -90  | -118 | -95  | -65 | -72  | -202 | -456 | -608 |
| Critical Water Years (16%)                  | -604 | -533 | -353 | -126 | -110 | -116 | -97  | -72 | -121 | -378 | -663 | -790 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-1-7a. Contra Costa Pumping Plant Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep   |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 10% Exceedance                              | 826 | 687 | 530 | 240 | 184 | 172 | 149 | 116 | 162 | 447 | 822 | 1,035 |
| 20% Exceedance                              | 653 | 489 | 345 | 202 | 173 | 164 | 142 | 108 | 114 | 328 | 703 | 889   |
| 30% Exceedance                              | 533 | 352 | 230 | 175 | 157 | 158 | 133 | 102 | 91  | 261 | 555 | 755   |
| 40% Exceedance                              | 459 | 280 | 188 | 155 | 148 | 149 | 127 | 96  | 83  | 173 | 491 | 675   |
| 50% Exceedance                              | 325 | 213 | 163 | 144 | 142 | 138 | 98  | 78  | 75  | 130 | 381 | 568   |
| 60% Exceedance                              | 265 | 169 | 143 | 135 | 128 | 100 | 70  | 60  | 70  | 105 | 302 | 434   |
| 70% Exceedance                              | 139 | 129 | 130 | 129 | 109 | 62  | 47  | 41  | 65  | 82  | 200 | 255   |
| 80% Exceedance                              | 118 | 108 | 119 | 111 | 44  | 43  | 29  | 26  | 52  | 73  | 114 | 143   |
| 90% Exceedance                              | 104 | 102 | 102 | 39  | 22  | 21  | 11  | 5   | 27  | 61  | 91  | 101   |
| Full Simulation Period Average <sup>a</sup> | 401 | 314 | 236 | 161 | 128 | 112 | 90  | 72  | 91  | 206 | 422 | 548   |
| Wet Water Years (28%)                       | 144 | 118 | 118 | 93  | 61  | 44  | 30  | 25  | 43  | 76  | 156 | 197   |
| Above Normal Years (14%)                    | 237 | 163 | 147 | 148 | 114 | 89  | 68  | 57  | 65  | 110 | 291 | 388   |
| Below Normal Years (18%)                    | 412 | 280 | 193 | 158 | 132 | 120 | 95  | 75  | 81  | 192 | 472 | 616   |
| Dry Water Years (24%)                       | 541 | 387 | 270 | 173 | 156 | 154 | 129 | 96  | 100 | 251 | 544 | 741   |
| Critical Water Years (16%)                  | 806 | 753 | 545 | 279 | 212 | 177 | 150 | 126 | 192 | 464 | 764 | 935   |

**Table F.2.7-1-7b. Contra Costa Pumping Plant Chloride, Alt2woTUCPDeltaVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 201 | 221 | 221 | 210 | 119 | 60  | 64  | 46  | 52  | 86  | 110 | 154 |
| 20% Exceedance                              | 184 | 186 | 211 | 162 | 82  | 49  | 54  | 42  | 31  | 53  | 98  | 144 |
| 30% Exceedance                              | 165 | 166 | 200 | 119 | 57  | 46  | 48  | 38  | 29  | 44  | 85  | 140 |
| 40% Exceedance                              | 154 | 148 | 186 | 97  | 45  | 42  | 46  | 36  | 28  | 39  | 75  | 131 |
| 50% Exceedance                              | 143 | 125 | 161 | 75  | 40  | 39  | 42  | 33  | 26  | 36  | 63  | 118 |
| 60% Exceedance                              | 25  | 47  | 108 | 44  | 32  | 37  | 38  | 31  | 24  | 26  | 49  | 52  |
| 70% Exceedance                              | 23  | 42  | 95  | 32  | 29  | 32  | 34  | 28  | 24  | 25  | 36  | 45  |
| 80% Exceedance                              | 21  | 38  | 73  | 26  | 26  | 27  | 30  | 25  | 22  | 23  | 29  | 36  |
| 90% Exceedance                              | 21  | 27  | 38  | 22  | 23  | 23  | 24  | 18  | 17  | 21  | 28  | 31  |
| Full Simulation Period Average <sup>a</sup> | 108 | 114 | 142 | 93  | 58  | 42  | 43  | 34  | 32  | 42  | 66  | 97  |
| Wet Water Years (28%)                       | 22  | 38  | 115 | 36  | 36  | 27  | 29  | 21  | 20  | 23  | 31  | 36  |
| Above Normal Years (14%)                    | 22  | 37  | 137 | 74  | 40  | 41  | 52  | 34  | 25  | 26  | 37  | 41  |
| Below Normal Years (18%)                    | 150 | 143 | 139 | 100 | 47  | 45  | 47  | 33  | 26  | 38  | 73  | 134 |
| Dry Water Years (24%)                       | 168 | 159 | 146 | 123 | 67  | 42  | 43  | 36  | 28  | 49  | 93  | 138 |
| Critical Water Years (16%)                  | 208 | 224 | 195 | 155 | 109 | 68  | 54  | 54  | 72  | 86  | 103 | 149 |

**Table F.2.7-1-7c. Contra Costa Pumping Plant Chloride, Alt2woTUCPDeltaVA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr | May | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|-----|-----|------|------|------|------|
| 10% Exceedance                              | -625 | -465 | -309 | -30  | -65  | -112 | -85 | -70 | -110 | -361 | -712 | -880 |
| 20% Exceedance                              | -469 | -303 | -134 | -40  | -92  | -115 | -88 | -67 | -83  | -275 | -605 | -745 |
| 30% Exceedance                              | -368 | -186 | -31  | -56  | -100 | -112 | -85 | -64 | -62  | -216 | -470 | -616 |
| 40% Exceedance                              | -306 | -133 | -2   | -58  | -104 | -107 | -81 | -60 | -55  | -133 | -416 | -544 |
| 50% Exceedance                              | -182 | -88  | -2   | -69  | -102 | -99  | -56 | -45 | -49  | -95  | -318 | -449 |
| 60% Exceedance                              | -240 | -122 | -35  | -91  | -96  | -64  | -32 | -30 | -46  | -78  | -254 | -382 |
| 70% Exceedance                              | -117 | -86  | -35  | -98  | -80  | -30  | -13 | -13 | -41  | -57  | -163 | -211 |
| 80% Exceedance                              | -96  | -71  | -45  | -84  | -18  | -17  | 1   | -1  | -30  | -50  | -85  | -107 |
| 90% Exceedance                              | -83  | -75  | -64  | -17  | 0    | 2    | 13  | 13  | -11  | -41  | -63  | -71  |
| Full Simulation Period Average <sup>a</sup> | -293 | -200 | -94  | -69  | -71  | -70  | -47 | -38 | -58  | -163 | -357 | -451 |
| Wet Water Years (28%)                       | -122 | -80  | -3   | -57  | -25  | -17  | -1  | -4  | -24  | -54  | -125 | -161 |
| Above Normal Years (14%)                    | -215 | -126 | -10  | -74  | -73  | -48  | -17 | -23 | -41  | -84  | -255 | -346 |
| Below Normal Years (18%)                    | -262 | -137 | -55  | -58  | -85  | -76  | -47 | -42 | -54  | -155 | -399 | -482 |
| Dry Water Years (24%)                       | -373 | -227 | -124 | -49  | -90  | -113 | -86 | -60 | -72  | -201 | -452 | -603 |
| Critical Water Years (16%)                  | -598 | -529 | -350 | -124 | -103 | -110 | -95 | -71 | -120 | -377 | -661 | -787 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.7-1-8a. Contra Costa Pumping Plant Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep   |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 10% Exceedance                              | 826 | 687 | 530 | 240 | 184 | 172 | 149 | 116 | 162 | 447 | 822 | 1,035 |
| 20% Exceedance                              | 653 | 489 | 345 | 202 | 173 | 164 | 142 | 108 | 114 | 328 | 703 | 889   |
| 30% Exceedance                              | 533 | 352 | 230 | 175 | 157 | 158 | 133 | 102 | 91  | 261 | 555 | 755   |
| 40% Exceedance                              | 459 | 280 | 188 | 155 | 148 | 149 | 127 | 96  | 83  | 173 | 491 | 675   |
| 50% Exceedance                              | 325 | 213 | 163 | 144 | 142 | 138 | 98  | 78  | 75  | 130 | 381 | 568   |
| 60% Exceedance                              | 265 | 169 | 143 | 135 | 128 | 100 | 70  | 60  | 70  | 105 | 302 | 434   |
| 70% Exceedance                              | 139 | 129 | 130 | 129 | 109 | 62  | 47  | 41  | 65  | 82  | 200 | 255   |
| 80% Exceedance                              | 118 | 108 | 119 | 111 | 44  | 43  | 29  | 26  | 52  | 73  | 114 | 143   |
| 90% Exceedance                              | 104 | 102 | 102 | 39  | 22  | 21  | 11  | 5   | 27  | 61  | 91  | 101   |
| Full Simulation Period Average <sup>a</sup> | 401 | 314 | 236 | 161 | 128 | 112 | 90  | 72  | 91  | 206 | 422 | 548   |
| Wet Water Years (28%)                       | 144 | 118 | 118 | 93  | 61  | 44  | 30  | 25  | 43  | 76  | 156 | 197   |
| Above Normal Years (14%)                    | 237 | 163 | 147 | 148 | 114 | 89  | 68  | 57  | 65  | 110 | 291 | 388   |
| Below Normal Years (18%)                    | 412 | 280 | 193 | 158 | 132 | 120 | 95  | 75  | 81  | 192 | 472 | 616   |
| Dry Water Years (24%)                       | 541 | 387 | 270 | 173 | 156 | 154 | 129 | 96  | 100 | 251 | 544 | 741   |
| Critical Water Years (16%)                  | 806 | 753 | 545 | 279 | 212 | 177 | 150 | 126 | 192 | 464 | 764 | 935   |

**Table F.2.7-1-8b. Contra Costa Pumping Plant Chloride, Alt2woTUCPAIIVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 198 | 219 | 223 | 196 | 118 | 61  | 62  | 45  | 45  | 82  | 111 | 156 |
| 20% Exceedance                              | 178 | 186 | 211 | 155 | 82  | 50  | 53  | 40  | 30  | 52  | 100 | 146 |
| 30% Exceedance                              | 166 | 164 | 199 | 116 | 58  | 46  | 48  | 36  | 28  | 44  | 84  | 139 |
| 40% Exceedance                              | 154 | 149 | 187 | 101 | 44  | 42  | 46  | 34  | 27  | 40  | 74  | 130 |
| 50% Exceedance                              | 143 | 136 | 157 | 77  | 39  | 39  | 42  | 32  | 25  | 34  | 61  | 119 |
| 60% Exceedance                              | 25  | 48  | 109 | 44  | 32  | 36  | 38  | 30  | 24  | 26  | 47  | 51  |
| 70% Exceedance                              | 23  | 42  | 95  | 32  | 29  | 32  | 34  | 27  | 23  | 25  | 34  | 43  |
| 80% Exceedance                              | 21  | 38  | 74  | 26  | 26  | 27  | 30  | 25  | 22  | 23  | 29  | 36  |
| 90% Exceedance                              | 21  | 26  | 37  | 22  | 23  | 23  | 24  | 18  | 17  | 21  | 27  | 30  |
| Full Simulation Period Average <sup>a</sup> | 107 | 114 | 143 | 92  | 58  | 42  | 42  | 33  | 30  | 41  | 65  | 97  |
| Wet Water Years (28%)                       | 22  | 38  | 115 | 37  | 36  | 28  | 29  | 20  | 20  | 23  | 31  | 36  |
| Above Normal Years (14%)                    | 22  | 37  | 137 | 74  | 39  | 40  | 51  | 33  | 24  | 24  | 34  | 40  |
| Below Normal Years (18%)                    | 149 | 143 | 138 | 96  | 47  | 45  | 46  | 31  | 26  | 38  | 72  | 134 |
| Dry Water Years (24%)                       | 166 | 156 | 145 | 120 | 65  | 41  | 43  | 36  | 27  | 50  | 94  | 138 |
| Critical Water Years (16%)                  | 210 | 227 | 203 | 156 | 114 | 69  | 54  | 51  | 63  | 81  | 101 | 148 |

**Table F.2.7-1-8c. Contra Costa Pumping Plant Chloride, Alt2woTUCPAIIVA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr | May | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|-----|-----|------|------|------|------|
| 10% Exceedance                              | -628 | -467 | -307 | -44  | -66  | -111 | -87 | -71 | -117 | -365 | -711 | -879 |
| 20% Exceedance                              | -475 | -303 | -133 | -47  | -91  | -114 | -89 | -68 | -84  | -276 | -603 | -743 |
| 30% Exceedance                              | -368 | -189 | -31  | -59  | -100 | -112 | -86 | -66 | -63  | -217 | -470 | -616 |
| 40% Exceedance                              | -305 | -131 | -1   | -54  | -104 | -107 | -81 | -61 | -57  | -133 | -416 | -545 |
| 50% Exceedance                              | -182 | -77  | -6   | -67  | -103 | -99  | -56 | -46 | -49  | -96  | -320 | -449 |
| 60% Exceedance                              | -240 | -121 | -34  | -91  | -96  | -64  | -31 | -30 | -46  | -79  | -256 | -383 |
| 70% Exceedance                              | -117 | -86  | -34  | -97  | -80  | -30  | -13 | -14 | -41  | -57  | -165 | -212 |
| 80% Exceedance                              | -97  | -70  | -45  | -84  | -18  | -17  | 1   | -1  | -30  | -50  | -85  | -107 |
| 90% Exceedance                              | -83  | -76  | -65  | -17  | 0    | 2    | 13  | 13  | -11  | -41  | -63  | -72  |
| Full Simulation Period Average <sup>a</sup> | -293 | -200 | -93  | -70  | -70  | -70  | -47 | -39 | -60  | -164 | -357 | -451 |
| Wet Water Years (28%)                       | -123 | -80  | -2   | -57  | -25  | -17  | -1  | -4  | -24  | -54  | -125 | -161 |
| Above Normal Years (14%)                    | -215 | -126 | -10  | -74  | -75  | -49  | -17 | -24 | -41  | -86  | -257 | -347 |
| Below Normal Years (18%)                    | -263 | -136 | -55  | -62  | -85  | -76  | -48 | -43 | -55  | -154 | -401 | -482 |
| Dry Water Years (24%)                       | -375 | -230 | -124 | -52  | -92  | -113 | -86 | -61 | -73  | -201 | -451 | -603 |
| Critical Water Years (16%)                  | -596 | -526 | -342 | -122 | -98  | -108 | -96 | -75 | -129 | -382 | -664 | -787 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-1-9a. Contra Costa Pumping Plant Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep   |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 10% Exceedance                              | 826 | 687 | 530 | 240 | 184 | 172 | 149 | 116 | 162 | 447 | 822 | 1,035 |
| 20% Exceedance                              | 653 | 489 | 345 | 202 | 173 | 164 | 142 | 108 | 114 | 328 | 703 | 889   |
| 30% Exceedance                              | 533 | 352 | 230 | 175 | 157 | 158 | 133 | 102 | 91  | 261 | 555 | 755   |
| 40% Exceedance                              | 459 | 280 | 188 | 155 | 148 | 149 | 127 | 96  | 83  | 173 | 491 | 675   |
| 50% Exceedance                              | 325 | 213 | 163 | 144 | 142 | 138 | 98  | 78  | 75  | 130 | 381 | 568   |
| 60% Exceedance                              | 265 | 169 | 143 | 135 | 128 | 100 | 70  | 60  | 70  | 105 | 302 | 434   |
| 70% Exceedance                              | 139 | 129 | 130 | 129 | 109 | 62  | 47  | 41  | 65  | 82  | 200 | 255   |
| 80% Exceedance                              | 118 | 108 | 119 | 111 | 44  | 43  | 29  | 26  | 52  | 73  | 114 | 143   |
| 90% Exceedance                              | 104 | 102 | 102 | 39  | 22  | 21  | 11  | 5   | 27  | 61  | 91  | 101   |
| Full Simulation Period Average <sup>a</sup> | 401 | 314 | 236 | 161 | 128 | 112 | 90  | 72  | 91  | 206 | 422 | 548   |
| Wet Water Years (28%)                       | 144 | 118 | 118 | 93  | 61  | 44  | 30  | 25  | 43  | 76  | 156 | 197   |
| Above Normal Years (14%)                    | 237 | 163 | 147 | 148 | 114 | 89  | 68  | 57  | 65  | 110 | 291 | 388   |
| Below Normal Years (18%)                    | 412 | 280 | 193 | 158 | 132 | 120 | 95  | 75  | 81  | 192 | 472 | 616   |
| Dry Water Years (24%)                       | 541 | 387 | 270 | 173 | 156 | 154 | 129 | 96  | 100 | 251 | 544 | 741   |
| Critical Water Years (16%)                  | 806 | 753 | 545 | 279 | 212 | 177 | 150 | 126 | 192 | 464 | 764 | 935   |

**Table F.2.7-1-9b. Contra Costa Pumping Plant Chloride, Alt2wTUCPwoVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 190 | 219 | 232 | 196 | 113 | 51  | 48  | 51  | 81  | 126 | 144 | 163 |
| 20% Exceedance                              | 173 | 188 | 212 | 162 | 79  | 41  | 40  | 37  | 30  | 54  | 99  | 145 |
| 30% Exceedance                              | 162 | 164 | 201 | 128 | 57  | 37  | 36  | 32  | 29  | 44  | 84  | 139 |
| 40% Exceedance                              | 154 | 151 | 189 | 95  | 46  | 34  | 33  | 30  | 28  | 39  | 79  | 131 |
| 50% Exceedance                              | 140 | 118 | 170 | 69  | 39  | 32  | 31  | 29  | 26  | 35  | 59  | 118 |
| 60% Exceedance                              | 25  | 47  | 112 | 44  | 32  | 29  | 29  | 27  | 24  | 26  | 49  | 53  |
| 70% Exceedance                              | 23  | 40  | 92  | 32  | 29  | 28  | 28  | 25  | 23  | 25  | 38  | 45  |
| 80% Exceedance                              | 21  | 34  | 72  | 26  | 26  | 26  | 27  | 24  | 22  | 23  | 30  | 37  |
| 90% Exceedance                              | 21  | 27  | 38  | 22  | 23  | 23  | 21  | 18  | 17  | 21  | 28  | 31  |
| Full Simulation Period Average <sup>a</sup> | 104 | 113 | 144 | 92  | 55  | 36  | 35  | 35  | 36  | 48  | 72  | 98  |
| Wet Water Years (28%)                       | 22  | 37  | 115 | 35  | 36  | 26  | 24  | 20  | 20  | 23  | 32  | 37  |
| Above Normal Years (14%)                    | 22  | 35  | 135 | 74  | 41  | 32  | 32  | 28  | 24  | 24  | 37  | 43  |
| Below Normal Years (18%)                    | 148 | 141 | 138 | 94  | 45  | 33  | 33  | 29  | 26  | 38  | 74  | 134 |
| Dry Water Years (24%)                       | 168 | 159 | 149 | 130 | 67  | 36  | 34  | 32  | 28  | 48  | 89  | 133 |
| Critical Water Years (16%)                  | 187 | 224 | 204 | 146 | 92  | 59  | 58  | 78  | 102 | 123 | 144 | 160 |

**Table F.2.7-1-9c. Contra Costa Pumping Plant Chloride, Alt2wTUCPwoVA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May | Jun | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|-----|-----|------|------|------|
| 10% Exceedance                              | -636 | -467 | -297 | -44  | -71  | -121 | -101 | -65 | -81 | -322 | -678 | -872 |
| 20% Exceedance                              | -480 | -301 | -133 | -40  | -94  | -123 | -102 | -71 | -84 | -274 | -604 | -744 |
| 30% Exceedance                              | -371 | -188 | -29  | -48  | -100 | -121 | -97  | -71 | -63 | -216 | -470 | -617 |
| 40% Exceedance                              | -306 | -130 | 0    | -61  | -102 | -116 | -94  | -66 | -56 | -133 | -412 | -544 |
| 50% Exceedance                              | -186 | -96  | 7    | -75  | -104 | -106 | -67  | -49 | -49 | -95  | -322 | -449 |
| 60% Exceedance                              | -240 | -122 | -31  | -91  | -96  | -71  | -40  | -34 | -46 | -78  | -254 | -381 |
| 70% Exceedance                              | -117 | -88  | -38  | -98  | -80  | -34  | -19  | -15 | -41 | -57  | -162 | -210 |
| 80% Exceedance                              | -96  | -74  | -46  | -84  | -18  | -17  | -2   | -2  | -30 | -50  | -84  | -106 |
| 90% Exceedance                              | -83  | -75  | -64  | -17  | 0    | 2    | 10   | 13  | -11 | -41  | -63  | -71  |
| Full Simulation Period Average <sup>a</sup> | -297 | -201 | -93  | -69  | -73  | -76  | -55  | -37 | -54 | -158 | -351 | -450 |
| Wet Water Years (28%)                       | -122 | -81  | -3   | -58  | -25  | -18  | -6   | -5  | -24 | -54  | -124 | -161 |
| Above Normal Years (14%)                    | -215 | -127 | -12  | -74  | -73  | -57  | -36  | -30 | -41 | -86  | -254 | -345 |
| Below Normal Years (18%)                    | -264 | -139 | -56  | -64  | -87  | -87  | -62  | -46 | -55 | -155 | -399 | -482 |
| Dry Water Years (24%)                       | -373 | -227 | -121 | -43  | -90  | -118 | -95  | -65 | -72 | -202 | -456 | -608 |
| Critical Water Years (16%)                  | -619 | -529 | -342 | -132 | -120 | -119 | -92  | -48 | -91 | -340 | -621 | -775 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-1-10a. Contra Costa Pumping Plant Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep   |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 10% Exceedance                              | 826 | 687 | 530 | 240 | 184 | 172 | 149 | 116 | 162 | 447 | 822 | 1,035 |
| 20% Exceedance                              | 653 | 489 | 345 | 202 | 173 | 164 | 142 | 108 | 114 | 328 | 703 | 889   |
| 30% Exceedance                              | 533 | 352 | 230 | 175 | 157 | 158 | 133 | 102 | 91  | 261 | 555 | 755   |
| 40% Exceedance                              | 459 | 280 | 188 | 155 | 148 | 149 | 127 | 96  | 83  | 173 | 491 | 675   |
| 50% Exceedance                              | 325 | 213 | 163 | 144 | 142 | 138 | 98  | 78  | 75  | 130 | 381 | 568   |
| 60% Exceedance                              | 265 | 169 | 143 | 135 | 128 | 100 | 70  | 60  | 70  | 105 | 302 | 434   |
| 70% Exceedance                              | 139 | 129 | 130 | 129 | 109 | 62  | 47  | 41  | 65  | 82  | 200 | 255   |
| 80% Exceedance                              | 118 | 108 | 119 | 111 | 44  | 43  | 29  | 26  | 52  | 73  | 114 | 143   |
| 90% Exceedance                              | 104 | 102 | 102 | 39  | 22  | 21  | 11  | 5   | 27  | 61  | 91  | 101   |
| Full Simulation Period Average <sup>a</sup> | 401 | 314 | 236 | 161 | 128 | 112 | 90  | 72  | 91  | 206 | 422 | 548   |
| Wet Water Years (28%)                       | 144 | 118 | 118 | 93  | 61  | 44  | 30  | 25  | 43  | 76  | 156 | 197   |
| Above Normal Years (14%)                    | 237 | 163 | 147 | 148 | 114 | 89  | 68  | 57  | 65  | 110 | 291 | 388   |
| Below Normal Years (18%)                    | 412 | 280 | 193 | 158 | 132 | 120 | 95  | 75  | 81  | 192 | 472 | 616   |
| Dry Water Years (24%)                       | 541 | 387 | 270 | 173 | 156 | 154 | 129 | 96  | 100 | 251 | 544 | 741   |
| Critical Water Years (16%)                  | 806 | 753 | 545 | 279 | 212 | 177 | 150 | 126 | 192 | 464 | 764 | 935   |

**Table F.2.7-1-10b. Contra Costa Pumping Plant Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 186 | 218 | 224 | 216 | 115 | 50  | 55  | 60  | 83  | 129 | 142 | 165 |
| 20% Exceedance                              | 172 | 193 | 213 | 162 | 91  | 42  | 49  | 44  | 29  | 55  | 100 | 149 |
| 30% Exceedance                              | 164 | 164 | 202 | 122 | 59  | 37  | 40  | 38  | 28  | 45  | 84  | 137 |
| 40% Exceedance                              | 155 | 153 | 191 | 104 | 44  | 34  | 38  | 35  | 27  | 40  | 73  | 126 |
| 50% Exceedance                              | 136 | 134 | 172 | 77  | 38  | 31  | 36  | 32  | 26  | 35  | 57  | 114 |
| 60% Exceedance                              | 23  | 46  | 115 | 43  | 31  | 29  | 32  | 30  | 25  | 27  | 44  | 48  |
| 70% Exceedance                              | 22  | 42  | 93  | 31  | 28  | 28  | 30  | 28  | 24  | 24  | 34  | 41  |
| 80% Exceedance                              | 21  | 35  | 75  | 26  | 25  | 26  | 28  | 27  | 22  | 23  | 28  | 34  |
| 90% Exceedance                              | 21  | 27  | 39  | 22  | 22  | 24  | 25  | 21  | 17  | 21  | 27  | 30  |
| Full Simulation Period Average <sup>a</sup> | 103 | 113 | 146 | 93  | 57  | 36  | 39  | 39  | 37  | 49  | 70  | 96  |
| Wet Water Years (28%)                       | 22  | 37  | 117 | 38  | 36  | 27  | 27  | 23  | 20  | 23  | 30  | 34  |
| Above Normal Years (14%)                    | 22  | 37  | 138 | 75  | 38  | 32  | 41  | 34  | 25  | 25  | 32  | 38  |
| Below Normal Years (18%)                    | 146 | 146 | 140 | 96  | 46  | 33  | 39  | 34  | 26  | 37  | 70  | 133 |
| Dry Water Years (24%)                       | 165 | 157 | 146 | 129 | 70  | 36  | 36  | 35  | 27  | 48  | 86  | 127 |
| Critical Water Years (16%)                  | 185 | 221 | 213 | 147 | 102 | 59  | 59  | 81  | 106 | 128 | 150 | 164 |

**Table F.2.7-1-10c. Contra Costa Pumping Plant Chloride, NAA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr | May | Jun | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|-----|-----|-----|------|------|------|
| 10% Exceedance                              | -641 | -469 | -305 | -24  | -68  | -122 | -94 | -56 | -80 | -318 | -680 | -870 |
| 20% Exceedance                              | -482 | -296 | -132 | -39  | -82  | -122 | -93 | -64 | -85 | -273 | -603 | -740 |
| 30% Exceedance                              | -369 | -188 | -28  | -53  | -98  | -121 | -94 | -64 | -64 | -215 | -471 | -618 |
| 40% Exceedance                              | -305 | -127 | 3    | -52  | -105 | -115 | -89 | -61 | -56 | -133 | -418 | -549 |
| 50% Exceedance                              | -190 | -79  | 9    | -67  | -105 | -107 | -62 | -46 | -49 | -95  | -324 | -453 |
| 60% Exceedance                              | -242 | -123 | -28  | -92  | -97  | -71  | -38 | -31 | -45 | -78  | -258 | -386 |
| 70% Exceedance                              | -117 | -86  | -36  | -99  | -81  | -34  | -17 | -13 | -41 | -57  | -166 | -215 |
| 80% Exceedance                              | -96  | -73  | -44  | -84  | -19  | -17  | 0   | 1   | -30 | -50  | -85  | -109 |
| 90% Exceedance                              | -83  | -75  | -63  | -17  | 0    | 2    | 14  | 16  | -10 | -41  | -64  | -72  |
| Full Simulation Period Average <sup>a</sup> | -298 | -201 | -91  | -68  | -71  | -76  | -51 | -33 | -53 | -157 | -352 | -452 |
| Wet Water Years (28%)                       | -123 | -81  | -1   | -56  | -25  | -17  | -2  | -2  | -23 | -54  | -126 | -163 |
| Above Normal Years (14%)                    | -215 | -126 | -9   | -73  | -75  | -57  | -27 | -24 | -41 | -85  | -259 | -350 |
| Below Normal Years (18%)                    | -266 | -134 | -54  | -62  | -86  | -87  | -56 | -40 | -55 | -155 | -403 | -483 |
| Dry Water Years (24%)                       | -376 | -230 | -123 | -43  | -86  | -118 | -93 | -62 | -73 | -202 | -459 | -614 |
| Critical Water Years (16%)                  | -621 | -532 | -332 | -132 | -110 | -118 | -90 | -44 | -87 | -335 | -614 | -771 |

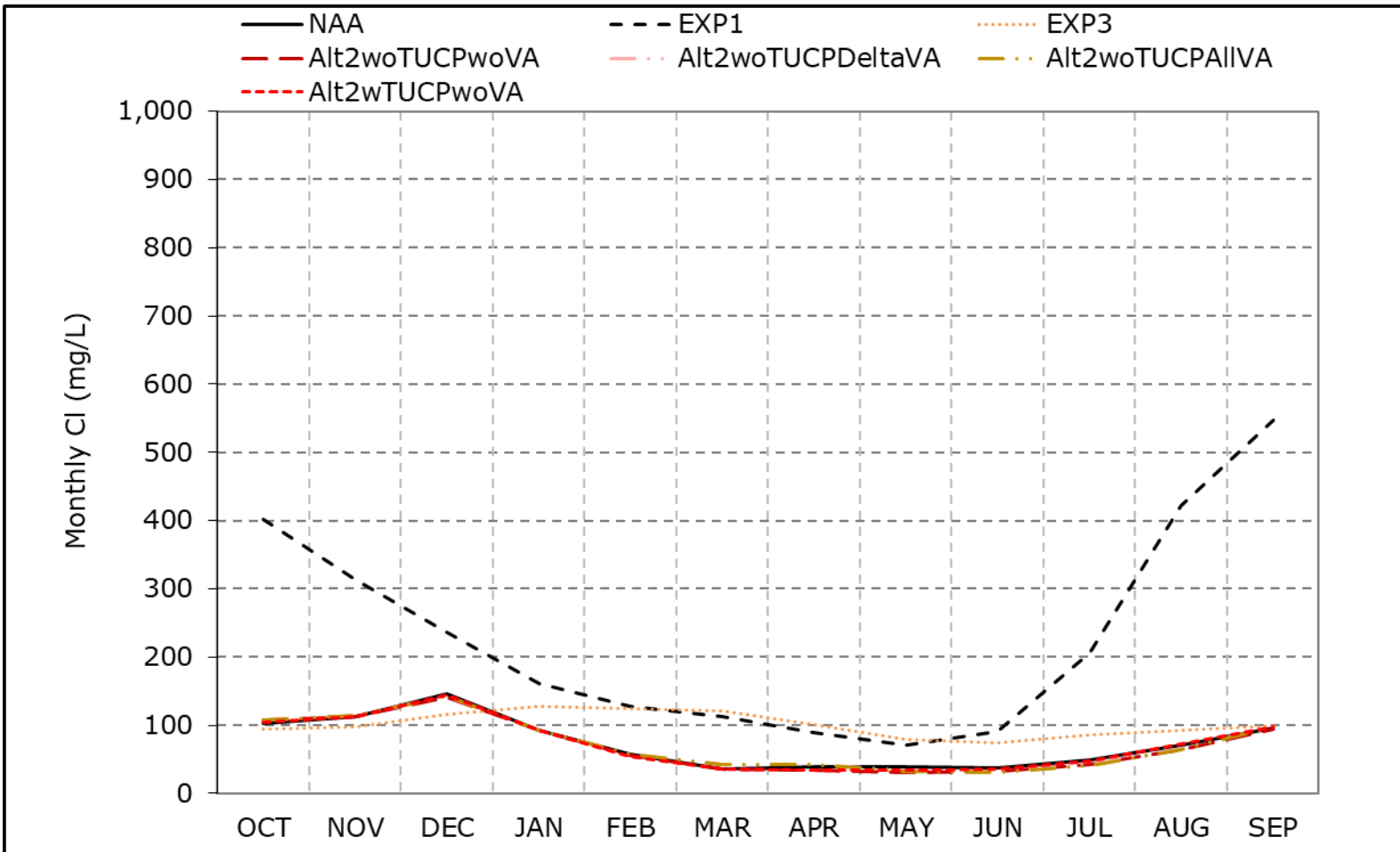
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.7-1-1. Contra Costa Pumping Plant Chloride, Long-Term Average Cl**

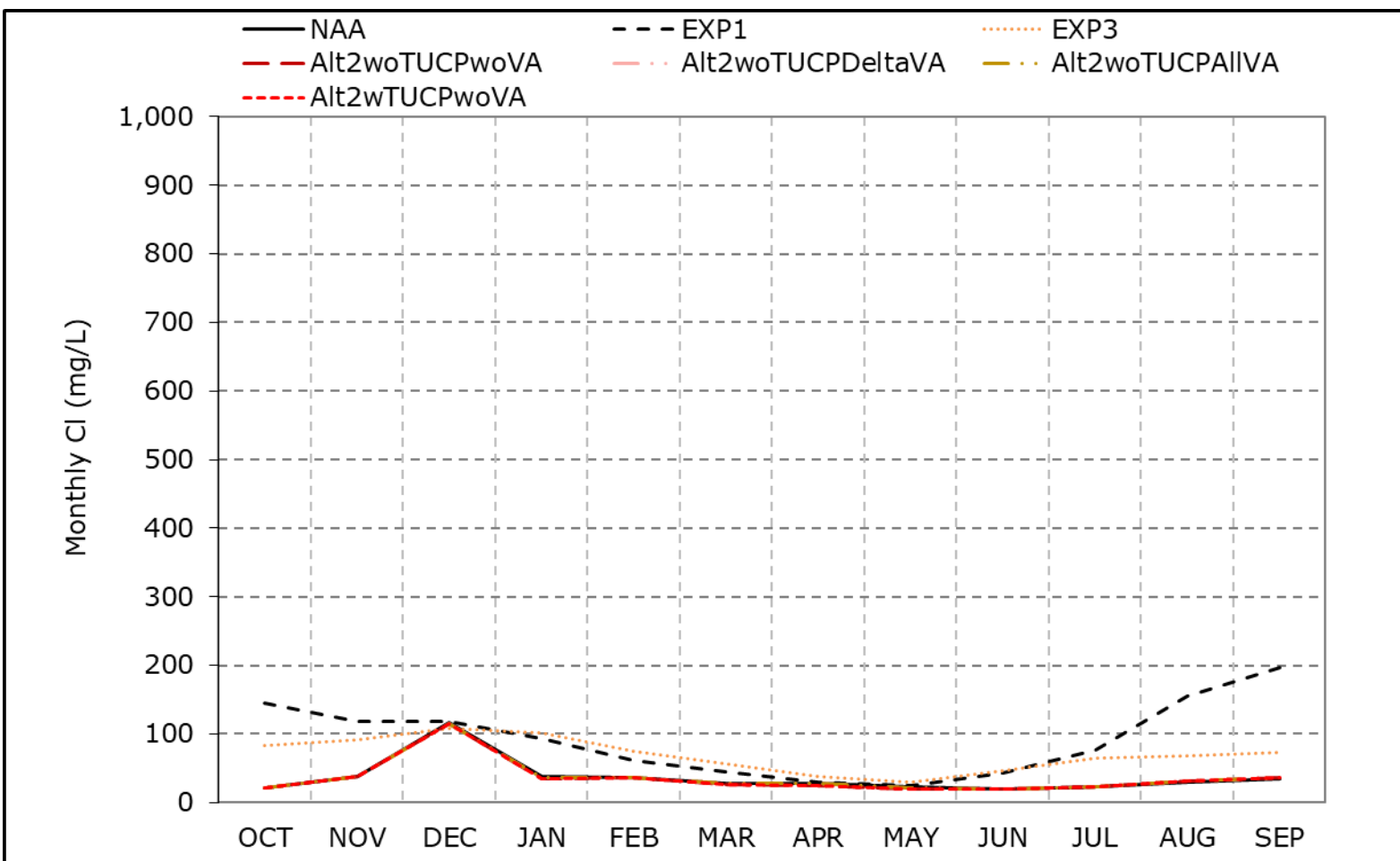


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-2. Contra Costa Pumping Plant Chloride, Wet Year Average CI**

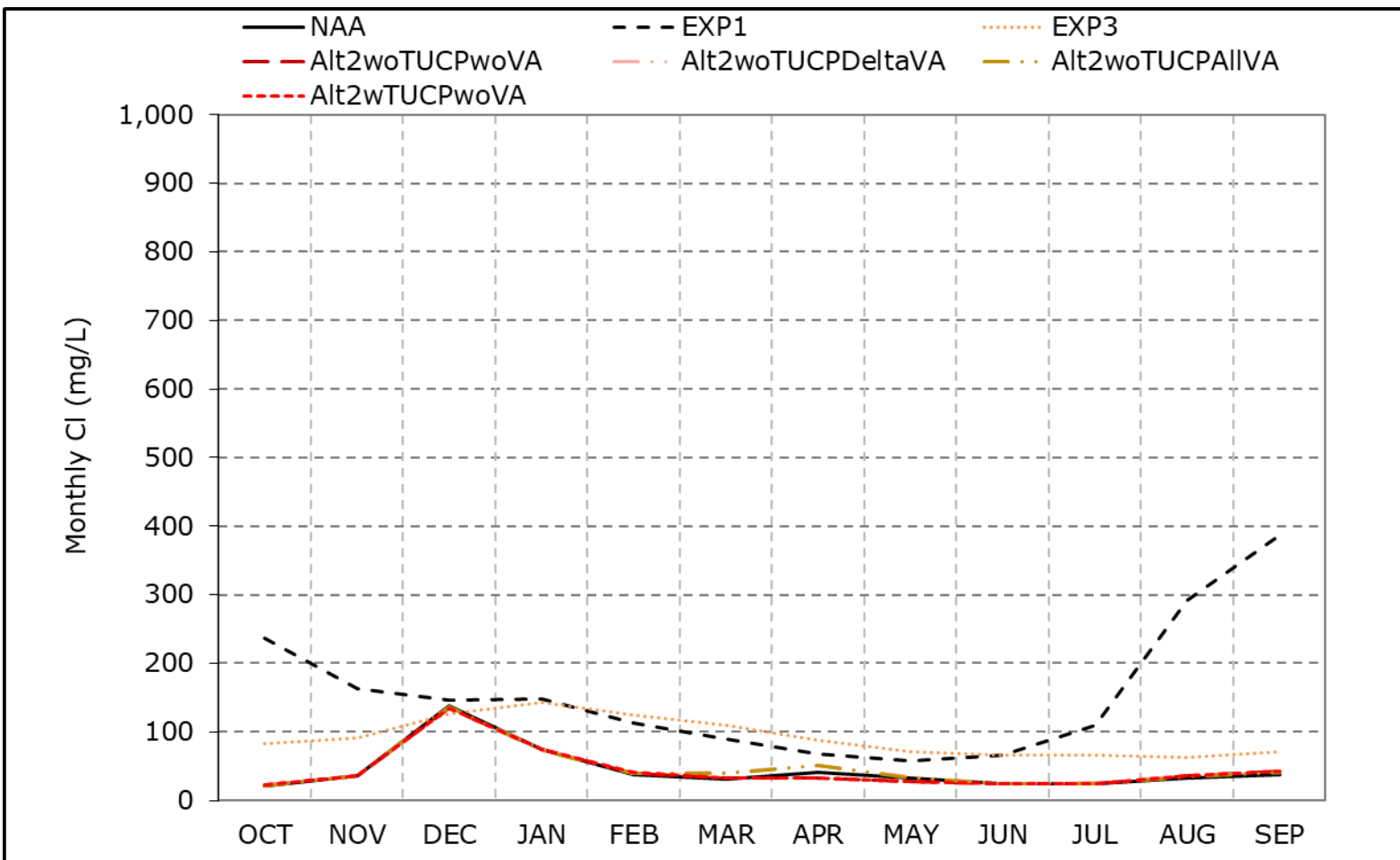


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-3. Contra Costa Pumping Plant Chloride, Above Normal Year Average Cl**

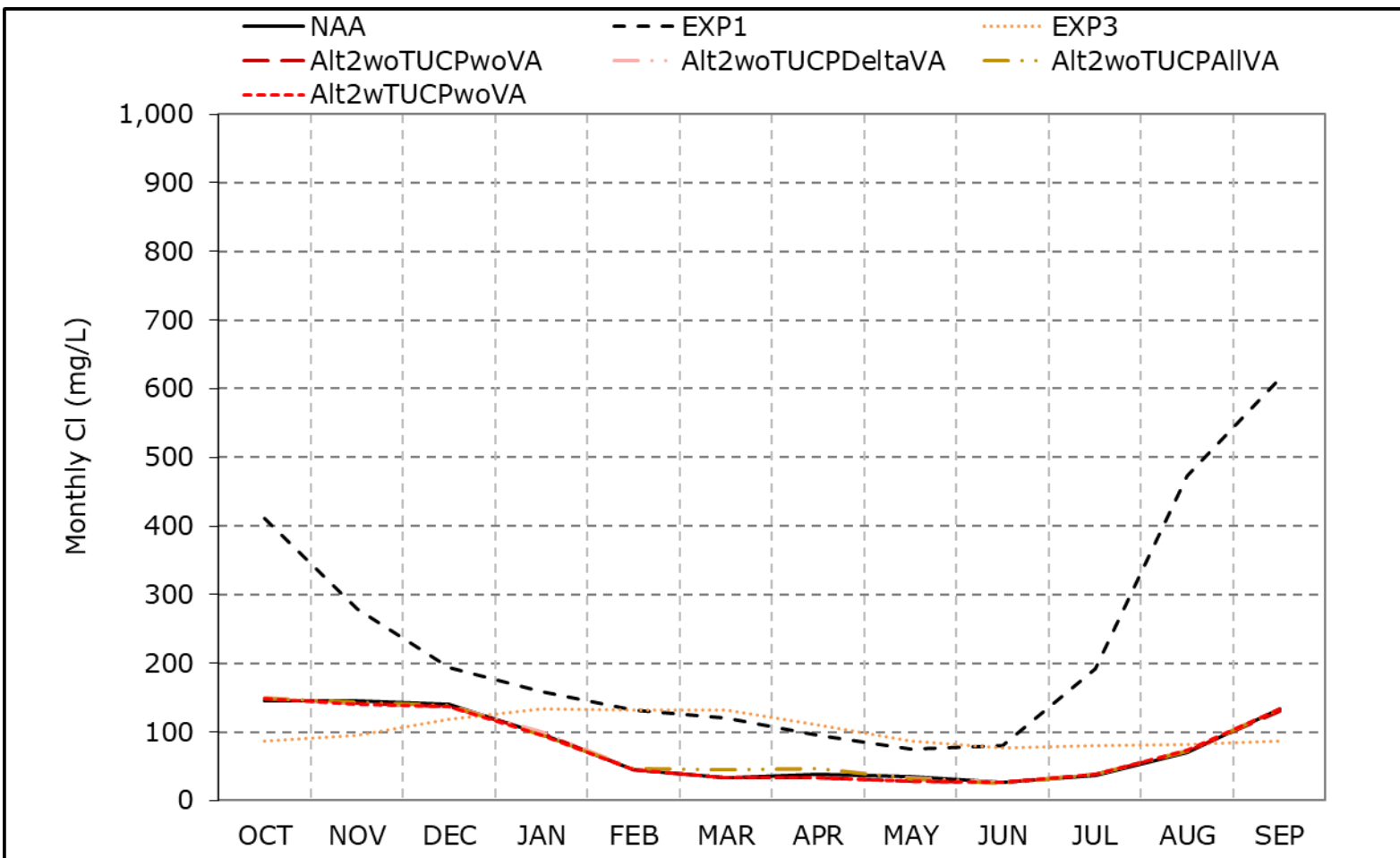


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-4. Contra Costa Pumping Plant Chloride, Below Normal Year Average Cl**

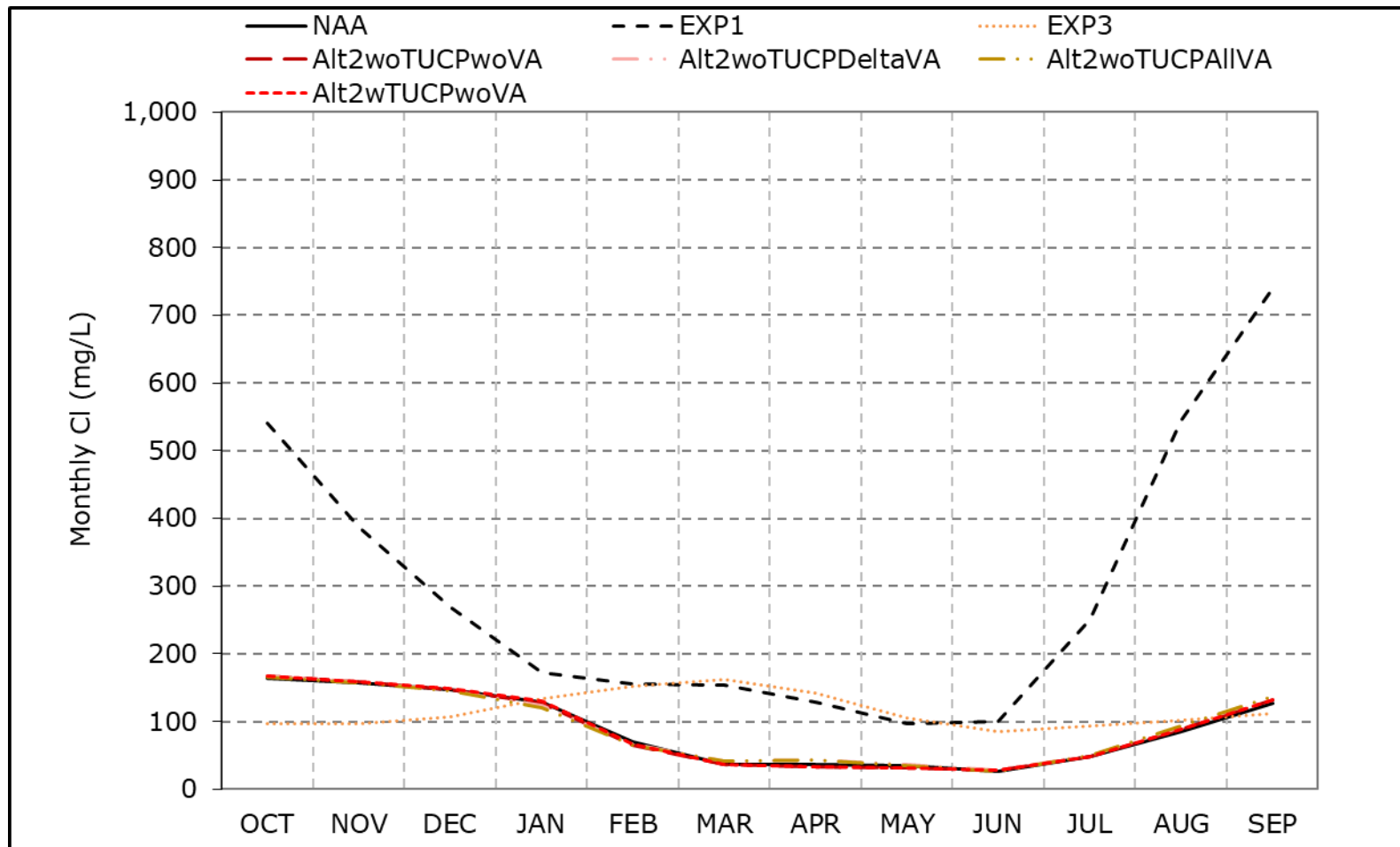


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-5. Contra Costa Pumping Plant Chloride, Dry Year Average Cl**



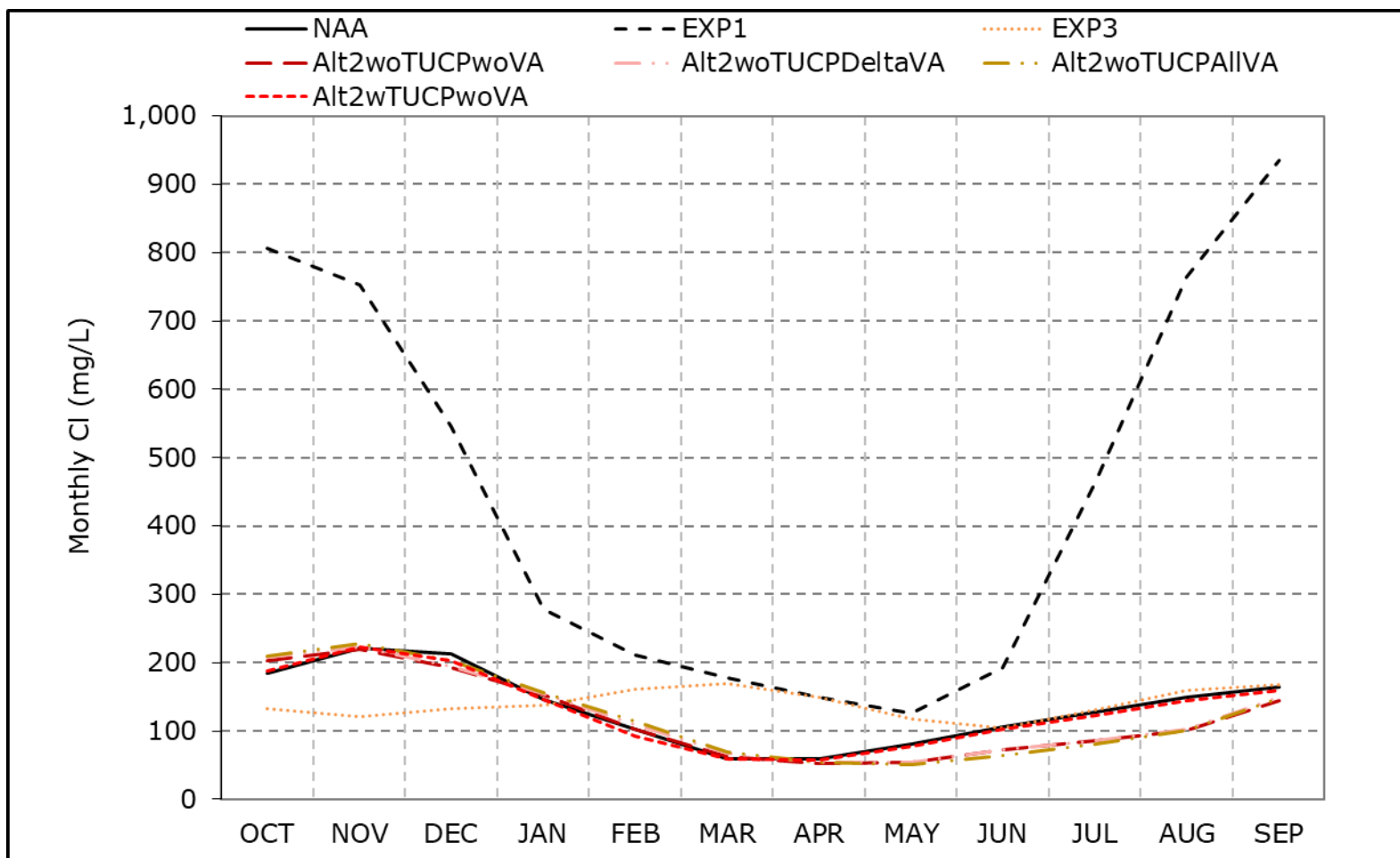
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.7-1-6. Contra Costa Pumping Plant Chloride, Critical Year Average CI**

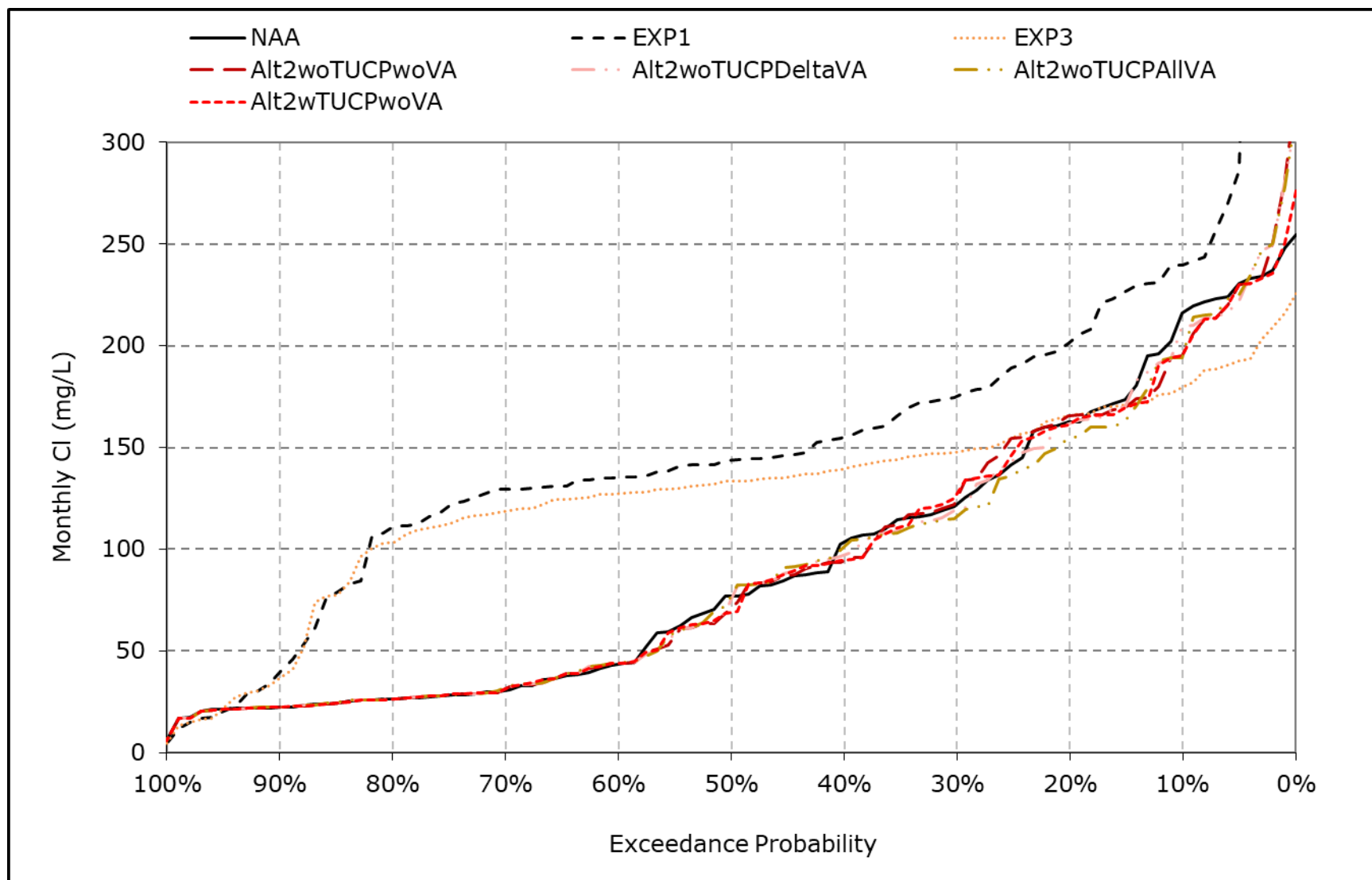


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

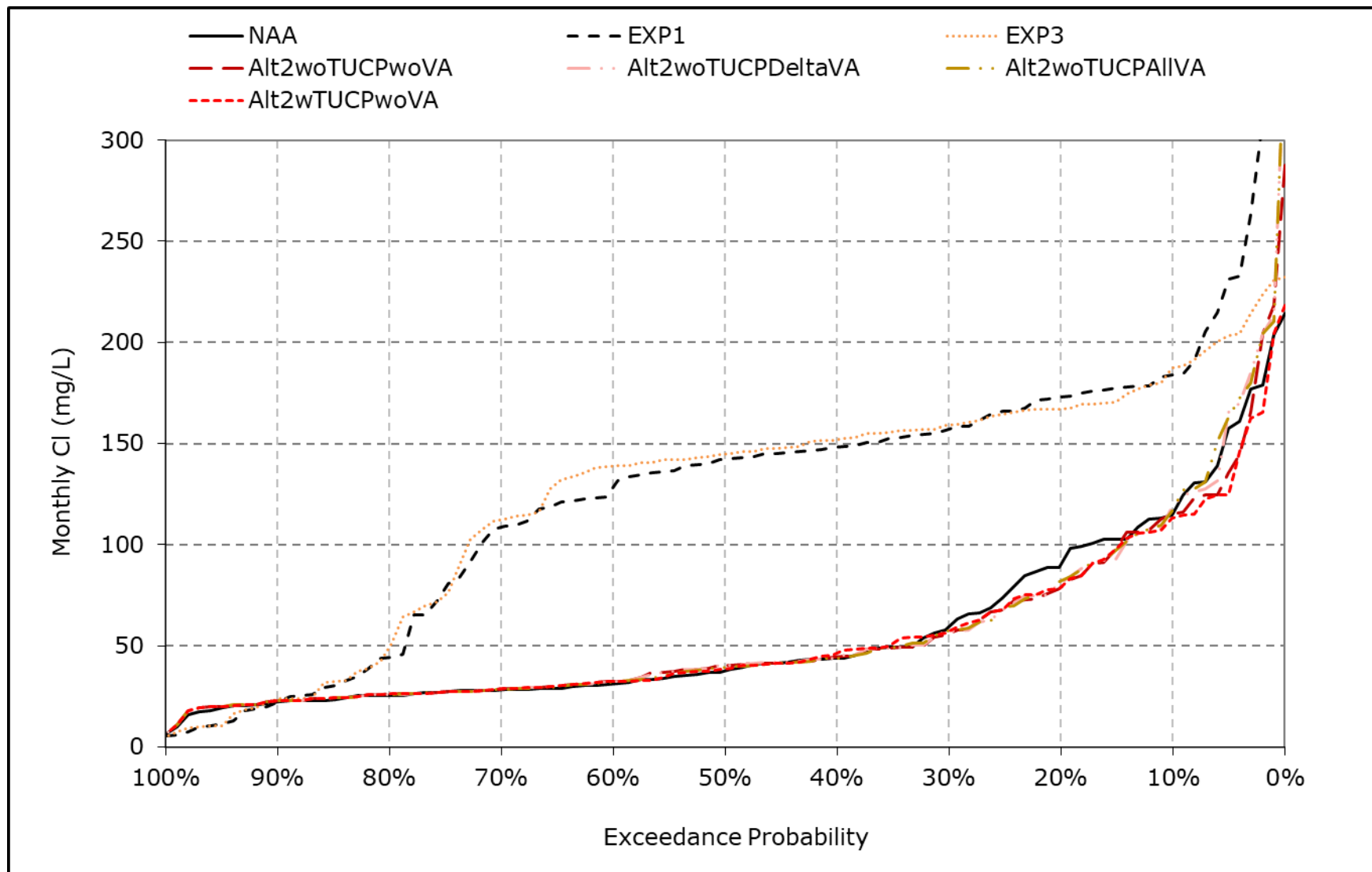
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-7. Contra Costa Pumping Plant Chloride, January CI**



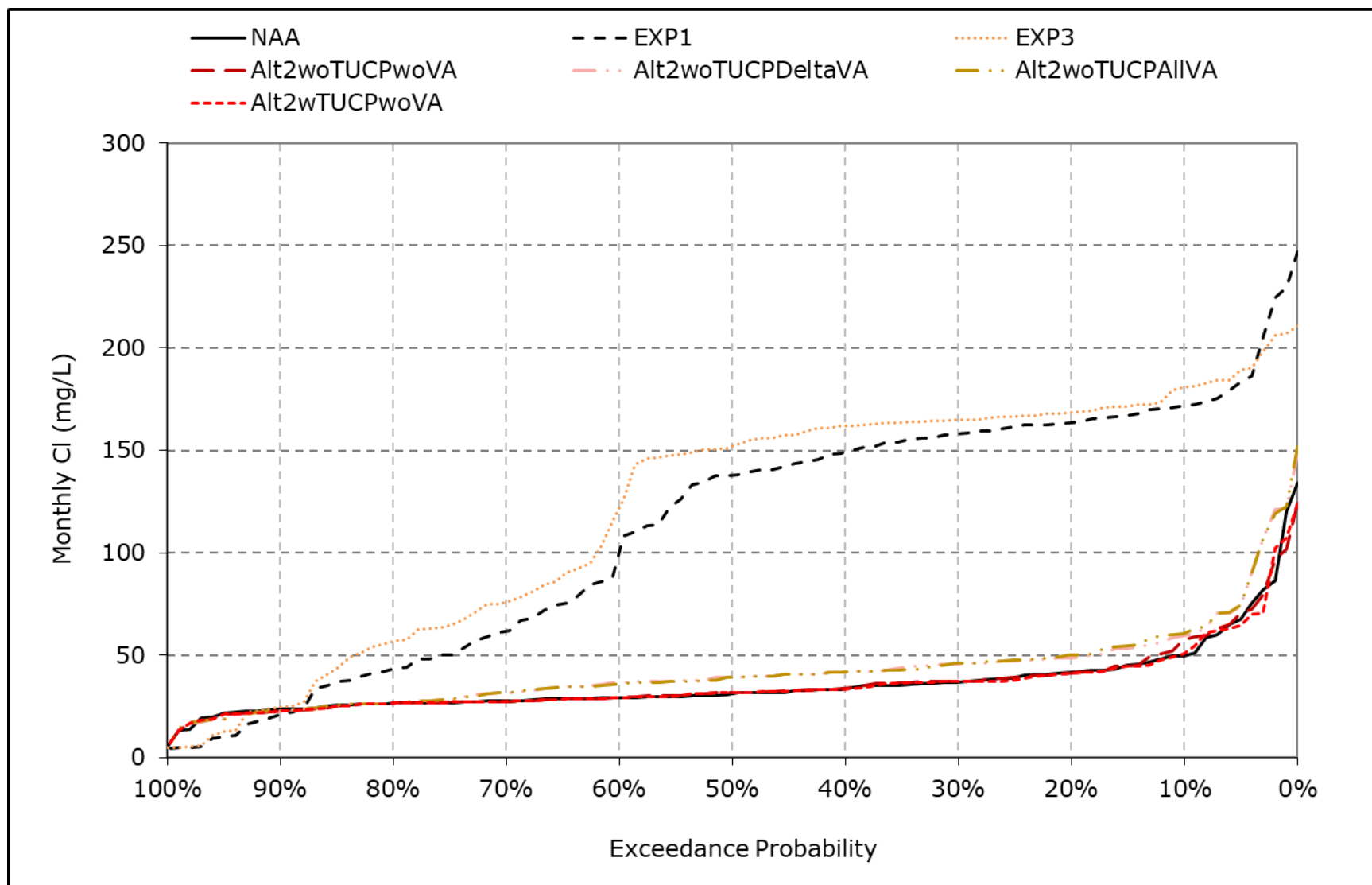
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-8. Contra Costa Pumping Plant Chloride, February CI**



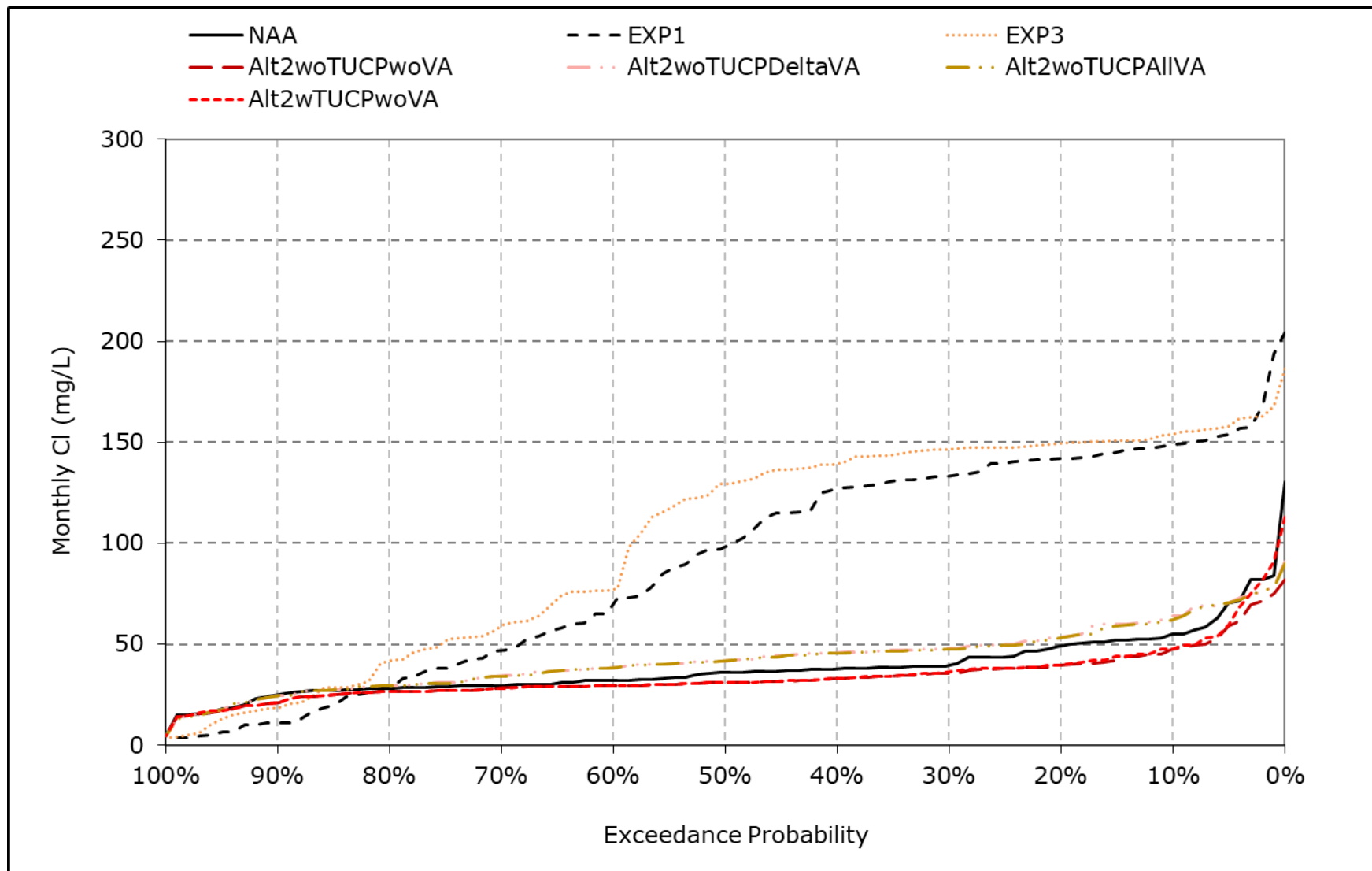
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-9. Contra Costa Pumping Plant Chloride, March CI**



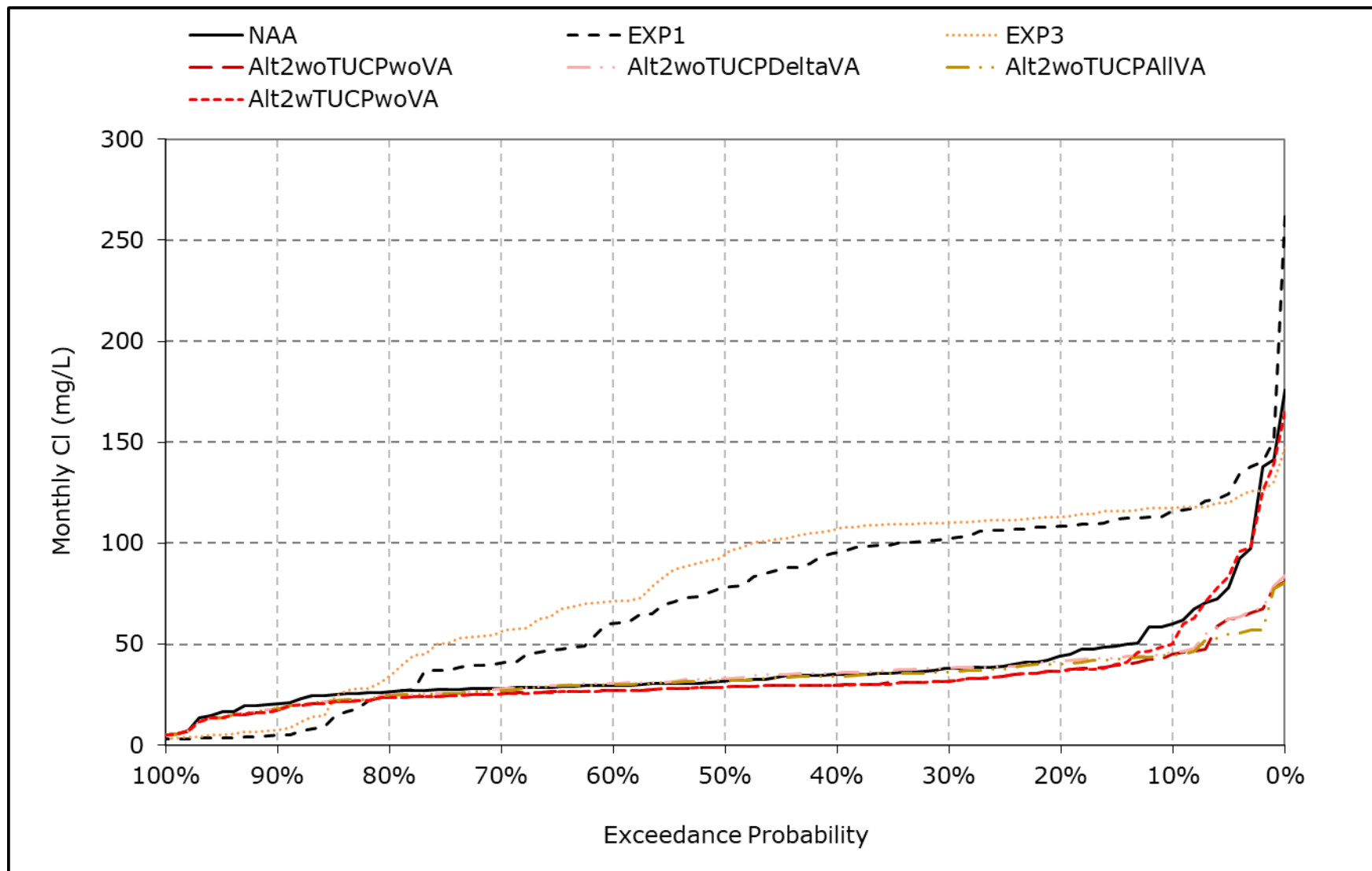
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-10. Contra Costa Pumping Plant Chloride, April CI**



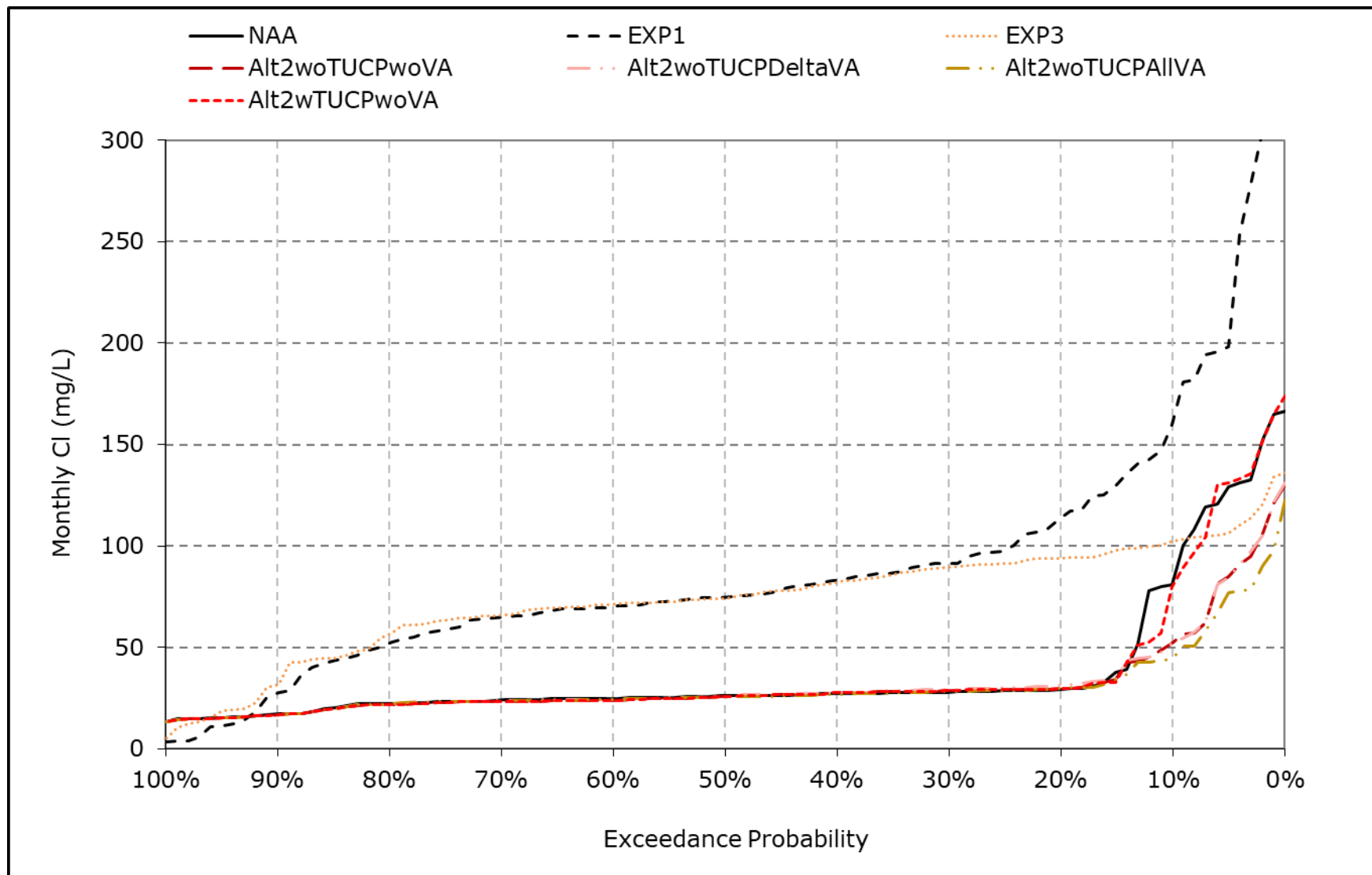
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-11. Contra Costa Pumping Plant Chloride, May CI**



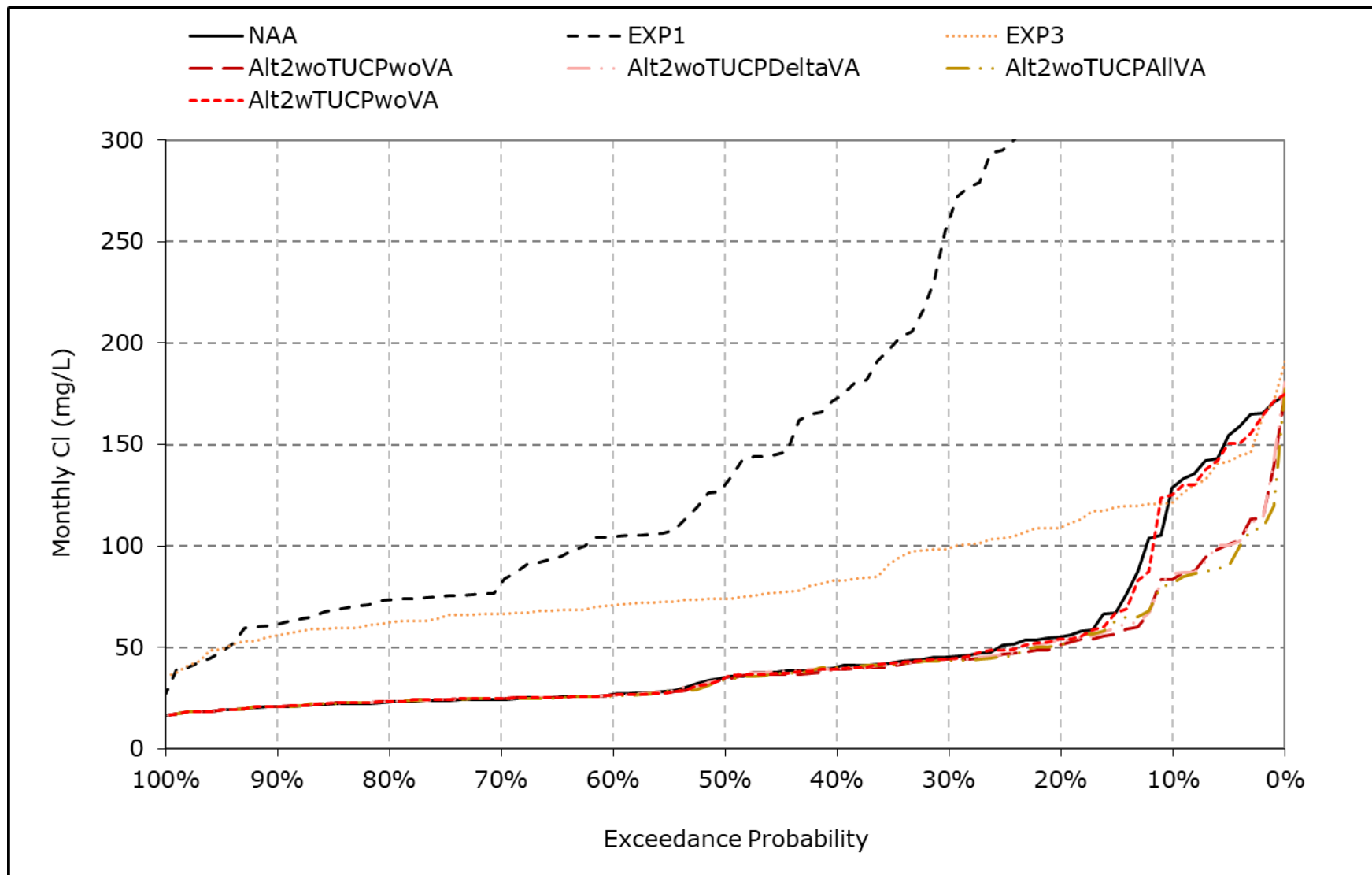
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-12. Contra Costa Pumping Plant Chloride, June CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

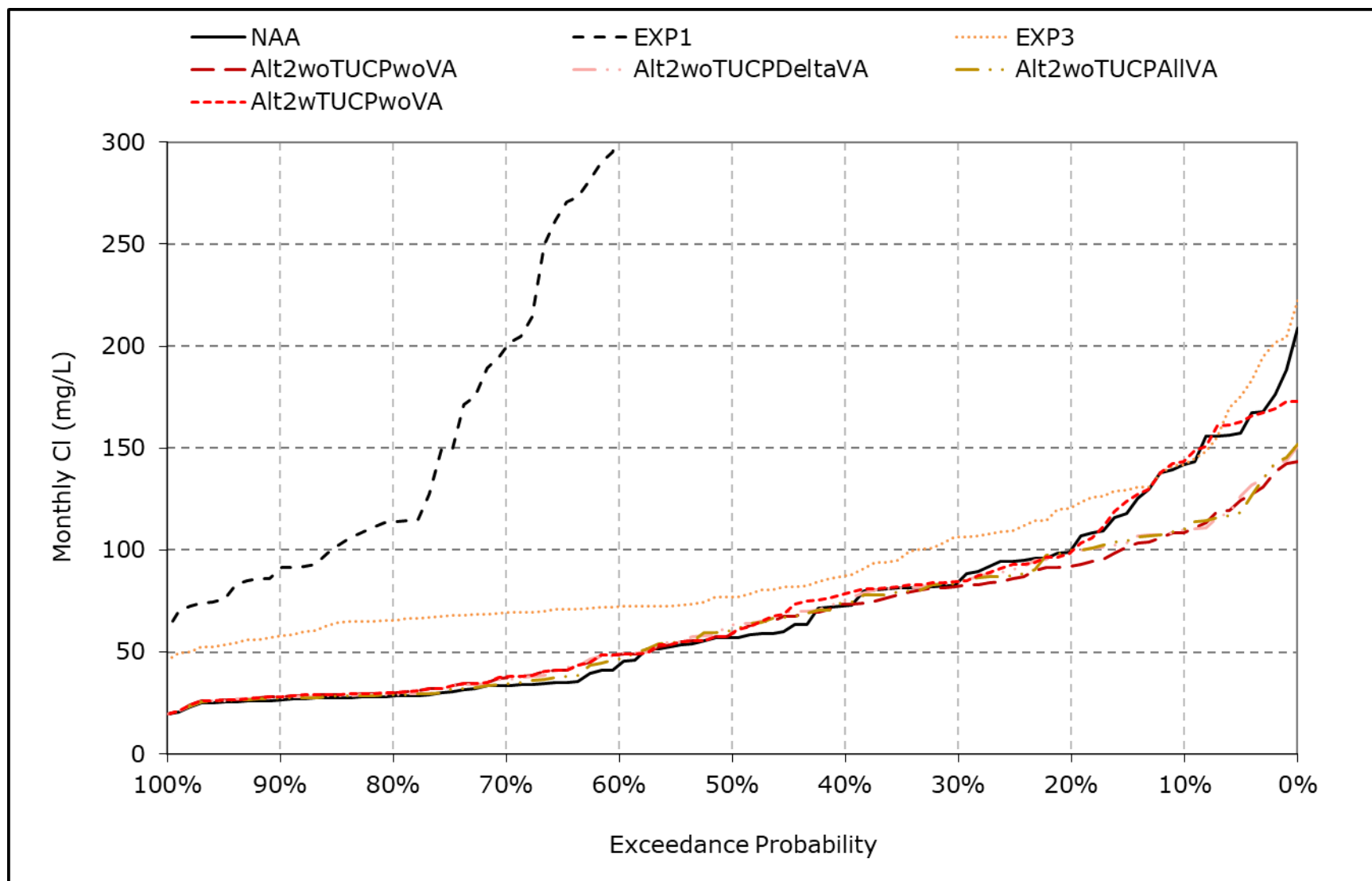
**Figure F.2.7-1-13. Contra Costa Pumping Plant Chloride, July CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

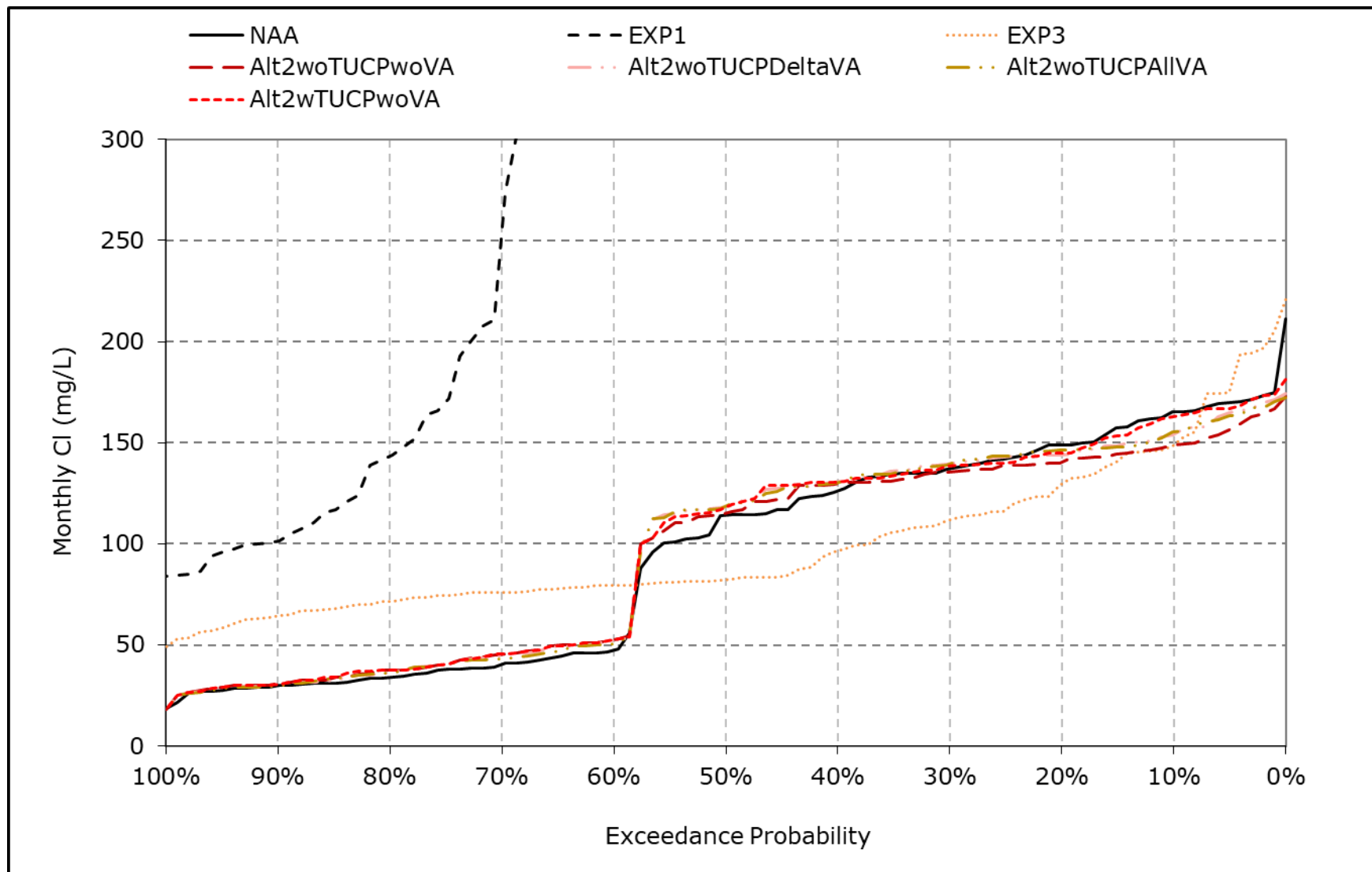


**Figure F.2.7-1-14. Contra Costa Pumping Plant Chloride, August CI**



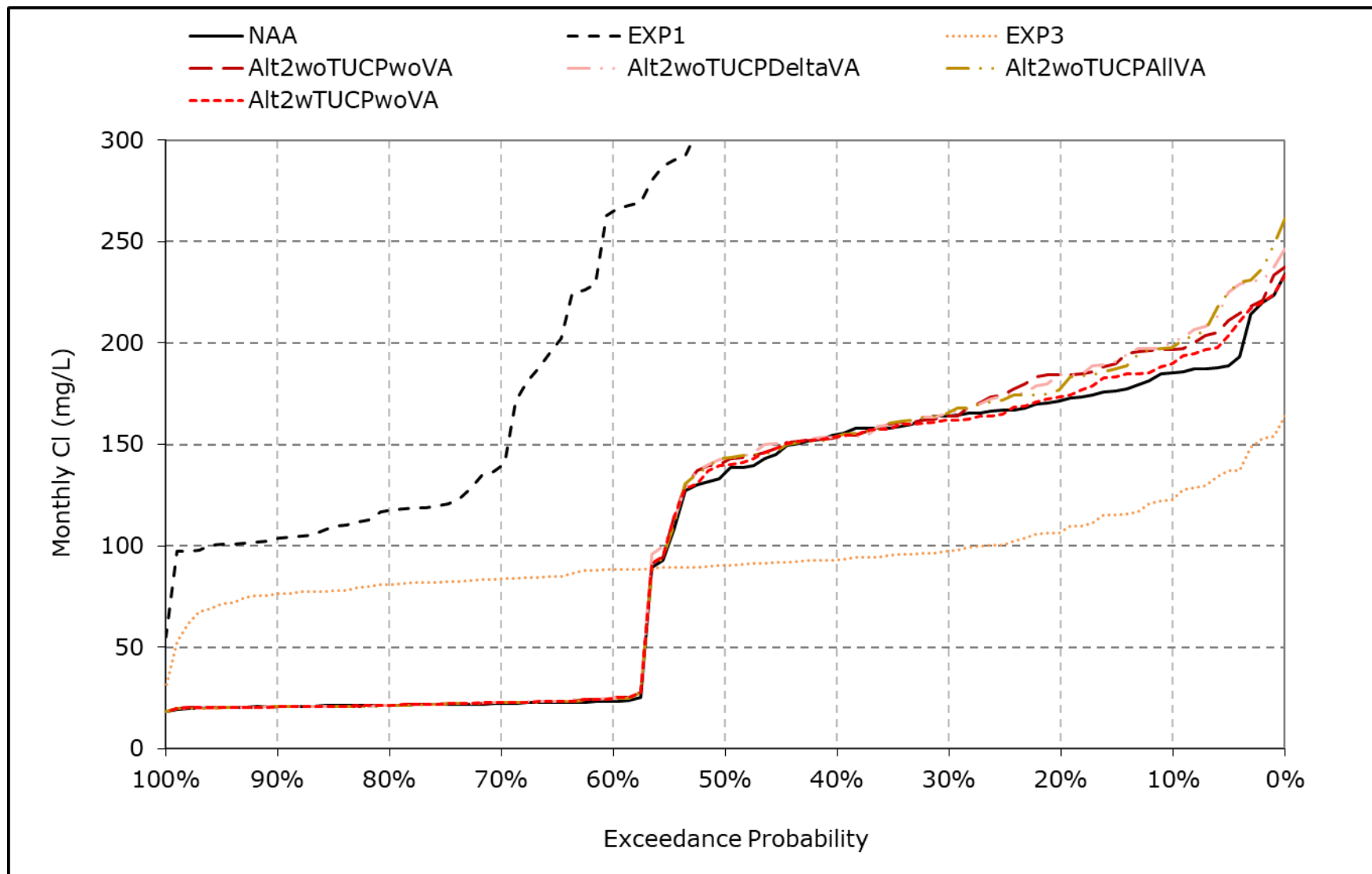
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-15. Contra Costa Pumping Plant Chloride, September CI**



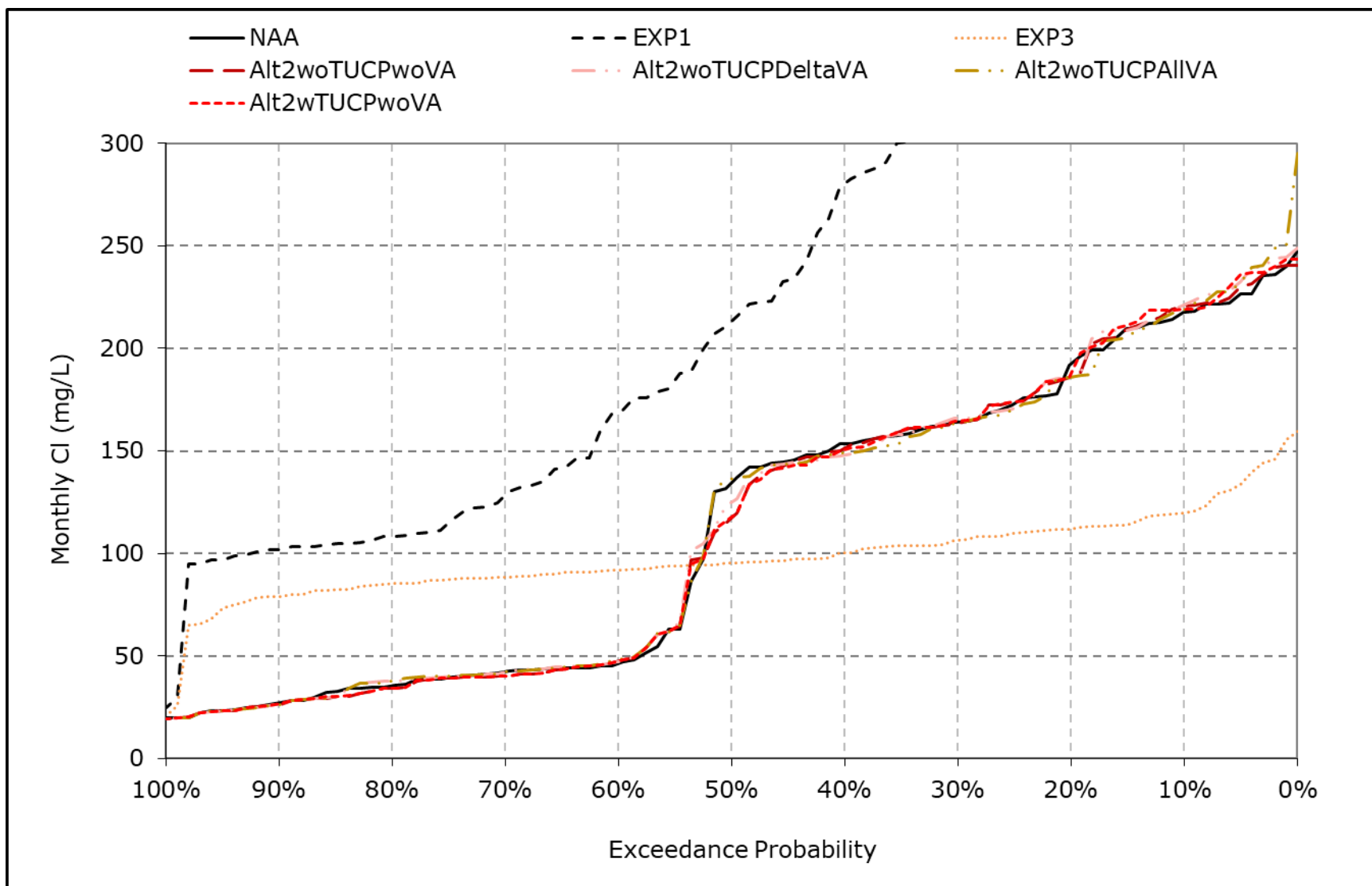
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-16. Contra Costa Pumping Plant Chloride, October CI**



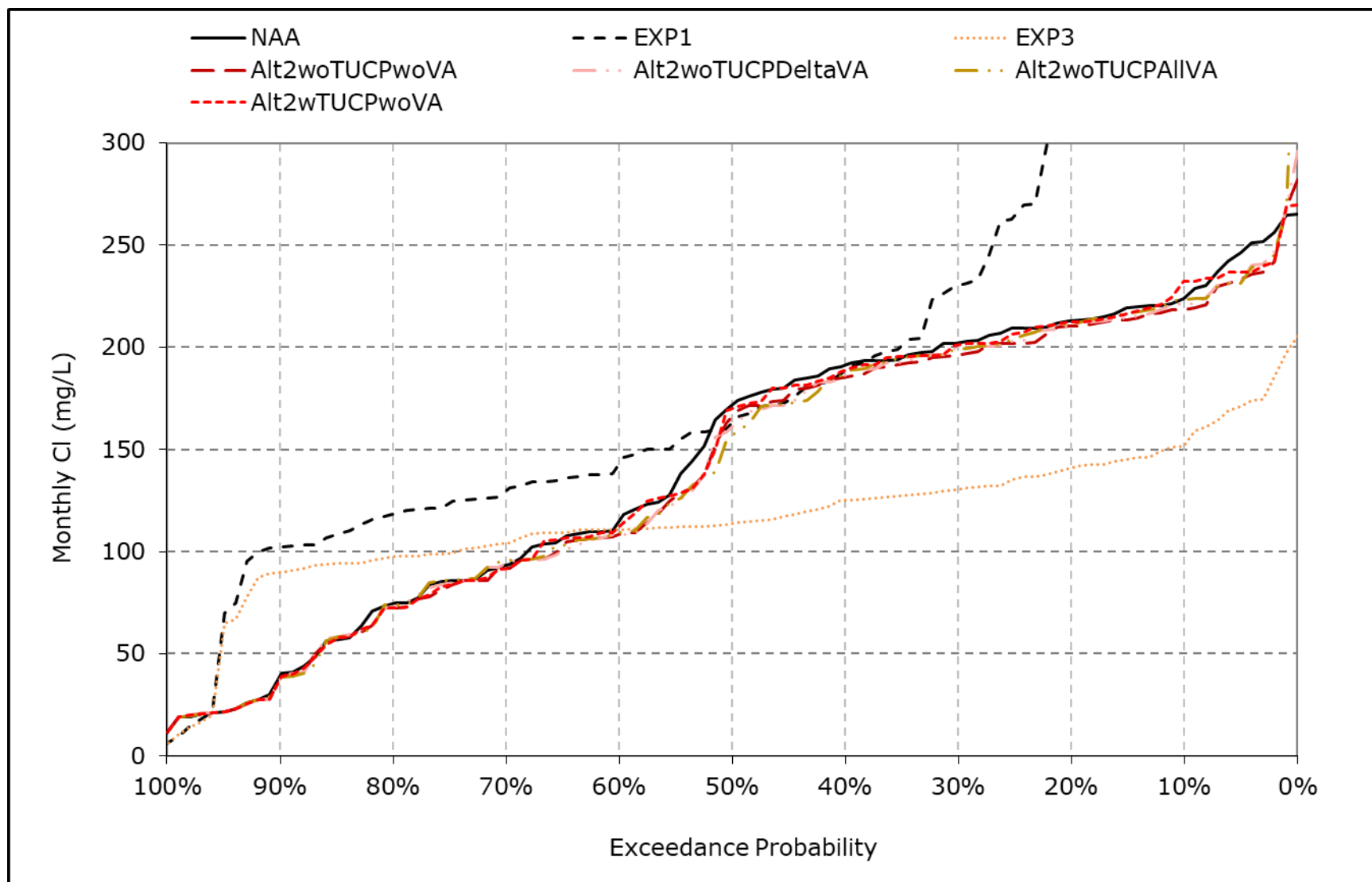
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-17. Contra Costa Pumping Plant Chloride, November CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-1-18. Contra Costa Pumping Plant Chloride, December CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.7-2-1a. San Joaquin River at Antioch Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,859 | 1,845 | 1,361 | 1,068 | 358 | 223 | 379 | 742 | 1,182 | 1,377 | 1,567 | 1,737 |
| 20% Exceedance                              | 1,751 | 1,694 | 1,191 | 807   | 191 | 113 | 201 | 246 | 475   | 808   | 1,208 | 1,685 |
| 30% Exceedance                              | 1,663 | 1,627 | 1,132 | 394   | 124 | 36  | 83  | 211 | 389   | 723   | 1,119 | 1,627 |
| 40% Exceedance                              | 1,549 | 1,450 | 980   | 229   | 46  | 28  | 37  | 157 | 346   | 631   | 1,045 | 1,548 |
| 50% Exceedance                              | 1,386 | 876   | 713   | 126   | 26  | 25  | 28  | 80  | 274   | 490   | 868   | 1,315 |
| 60% Exceedance                              | 280   | 793   | 363   | 58    | 24  | 23  | 24  | 49  | 242   | 318   | 586   | 373   |
| 70% Exceedance                              | 242   | 758   | 237   | 24    | 21  | 21  | 22  | 28  | 192   | 279   | 529   | 336   |
| 80% Exceedance                              | 223   | 593   | 160   | 21    | 20  | 20  | 20  | 20  | 109   | 250   | 486   | 316   |
| 90% Exceedance                              | 208   | 285   | 84    | 19    | 18  | 18  | 18  | 16  | 39    | 181   | 444   | 294   |
| Full Simulation Period Average <sup>a</sup> | 1,018 | 1,118 | 703   | 344   | 126 | 76  | 127 | 228 | 384   | 590   | 891   | 1,054 |
| Wet Water Years (28%)                       | 221   | 561   | 564   | 33    | 20  | 20  | 20  | 35  | 114   | 218   | 468   | 310   |
| Above Normal Years (14%)                    | 209   | 663   | 635   | 173   | 35  | 21  | 24  | 58  | 179   | 264   | 513   | 310   |
| Below Normal Years (18%)                    | 1,404 | 1,376 | 582   | 271   | 84  | 35  | 58  | 110 | 322   | 527   | 925   | 1,405 |
| Dry Water Years (24%)                       | 1,588 | 1,397 | 732   | 569   | 175 | 83  | 95  | 181 | 368   | 725   | 1,124 | 1,632 |
| Critical Water Years (16%)                  | 1,938 | 1,855 | 1,128 | 785   | 366 | 259 | 532 | 918 | 1,133 | 1,396 | 1,572 | 1,742 |

**Table F.2.7-2-1b. San Joaquin River at Antioch Chloride, Alt2woTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 1,991 | 1,736 | 1,350 | 1,022 | 328 | 145 | 259 | 452 | 605 | 958   | 1,314 | 1,779 |
| 20% Exceedance                              | 1,803 | 1,648 | 1,213 | 645   | 164 | 76  | 144 | 273 | 452 | 785   | 1,224 | 1,719 |
| 30% Exceedance                              | 1,662 | 1,582 | 1,117 | 343   | 101 | 33  | 76  | 253 | 400 | 701   | 1,122 | 1,653 |
| 40% Exceedance                              | 1,575 | 1,455 | 981   | 253   | 46  | 27  | 43  | 203 | 350 | 602   | 1,029 | 1,573 |
| 50% Exceedance                              | 1,336 | 864   | 615   | 143   | 26  | 26  | 29  | 120 | 266 | 489   | 866   | 1,409 |
| 60% Exceedance                              | 277   | 777   | 348   | 52    | 24  | 23  | 24  | 63  | 243 | 325   | 617   | 394   |
| 70% Exceedance                              | 251   | 714   | 224   | 24    | 21  | 21  | 22  | 30  | 202 | 302   | 555   | 356   |
| 80% Exceedance                              | 220   | 586   | 152   | 21    | 20  | 20  | 20  | 20  | 104 | 261   | 515   | 327   |
| 90% Exceedance                              | 207   | 288   | 71    | 18    | 18  | 18  | 18  | 16  | 38  | 188   | 487   | 307   |
| Full Simulation Period Average <sup>a</sup> | 1,034 | 1,079 | 697   | 332   | 117 | 68  | 95  | 195 | 343 | 542   | 863   | 1,080 |
| Wet Water Years (28%)                       | 223   | 558   | 566   | 29    | 20  | 20  | 20  | 43  | 114 | 227   | 498   | 324   |
| Above Normal Years (14%)                    | 203   | 638   | 639   | 171   | 35  | 21  | 24  | 75  | 175 | 279   | 538   | 328   |
| Below Normal Years (18%)                    | 1,407 | 1,320 | 562   | 286   | 80  | 34  | 62  | 146 | 327 | 523   | 893   | 1,435 |
| Dry Water Years (24%)                       | 1,601 | 1,401 | 736   | 520   | 150 | 80  | 101 | 203 | 379 | 731   | 1,145 | 1,658 |
| Critical Water Years (16%)                  | 2,021 | 1,690 | 1,099 | 771   | 353 | 212 | 313 | 609 | 854 | 1,060 | 1,331 | 1,792 |

**Table F.2.7-2-1c. San Joaquin River at Antioch Chloride, Alt2woTUCPwoVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov  | Dec | Jan  | Feb | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|------|-----|------|-----|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | 133 | -109 | -11 | -46  | -30 | -78 | -120 | -290 | -577 | -420 | -254 | 42  |
| 20% Exceedance                              | 51  | -46  | 22  | -162 | -27 | -37 | -57  | 28   | -23  | -23  | 17   | 34  |
| 30% Exceedance                              | -1  | -44  | -15 | -51  | -23 | -3  | -8   | 42   | 11   | -22  | 3    | 26  |
| 40% Exceedance                              | 26  | 5    | 1   | 24   | 1   | -1  | 6    | 47   | 3    | -29  | -16  | 25  |
| 50% Exceedance                              | -50 | -12  | -98 | 17   | 0   | 0   | 1    | 39   | -8   | -2   | -2   | 94  |
| 60% Exceedance                              | -4  | -16  | -14 | -6   | 0   | 0   | 0    | 13   | 1    | 7    | 31   | 21  |
| 70% Exceedance                              | 10  | -44  | -13 | 0    | 0   | 0   | 0    | 2    | 11   | 23   | 26   | 20  |
| 80% Exceedance                              | -2  | -7   | -9  | 0    | 0   | 0   | 0    | 0    | -5   | 11   | 29   | 12  |
| 90% Exceedance                              | -1  | 3    | -12 | 0    | 0   | 0   | 0    | 0    | -1   | 7    | 43   | 13  |
| Full Simulation Period Average <sup>a</sup> | 16  | -38  | -6  | -13  | -9  | -8  | -33  | -33  | -41  | -48  | -27  | 26  |
| Wet Water Years (28%)                       | 2   | -3   | 3   | -4   | 0   | 0   | 0    | 8    | 0    | 9    | 30   | 13  |
| Above Normal Years (14%)                    | -6  | -25  | 4   | -2   | 0   | 0   | 0    | 17   | -4   | 15   | 25   | 18  |
| Below Normal Years (18%)                    | 3   | -56  | -21 | 15   | -4  | -1  | 4    | 36   | 5    | -4   | -32  | 30  |
| Dry Water Years (24%)                       | 13  | 4    | 4   | -49  | -26 | -3  | 6    | 22   | 11   | 6    | 21   | 26  |
| Critical Water Years (16%)                  | 84  | -165 | -29 | -15  | -13 | -47 | -219 | -309 | -278 | -336 | -242 | 51  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-2-2a. San Joaquin River at Antioch Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,859 | 1,845 | 1,361 | 1,068 | 358 | 223 | 379 | 742 | 1,182 | 1,377 | 1,567 | 1,737 |
| 20% Exceedance                              | 1,751 | 1,694 | 1,191 | 807   | 191 | 113 | 201 | 246 | 475   | 808   | 1,208 | 1,685 |
| 30% Exceedance                              | 1,663 | 1,627 | 1,132 | 394   | 124 | 36  | 83  | 211 | 389   | 723   | 1,119 | 1,627 |
| 40% Exceedance                              | 1,549 | 1,450 | 980   | 229   | 46  | 28  | 37  | 157 | 346   | 631   | 1,045 | 1,548 |
| 50% Exceedance                              | 1,386 | 876   | 713   | 126   | 26  | 25  | 28  | 80  | 274   | 490   | 868   | 1,315 |
| 60% Exceedance                              | 280   | 793   | 363   | 58    | 24  | 23  | 24  | 49  | 242   | 318   | 586   | 373   |
| 70% Exceedance                              | 242   | 758   | 237   | 24    | 21  | 21  | 22  | 28  | 192   | 279   | 529   | 336   |
| 80% Exceedance                              | 223   | 593   | 160   | 21    | 20  | 20  | 20  | 20  | 109   | 250   | 486   | 316   |
| 90% Exceedance                              | 208   | 285   | 84    | 19    | 18  | 18  | 18  | 16  | 39    | 181   | 444   | 294   |
| Full Simulation Period Average <sup>a</sup> | 1,018 | 1,118 | 703   | 344   | 126 | 76  | 127 | 228 | 384   | 590   | 891   | 1,054 |
| Wet Water Years (28%)                       | 221   | 561   | 564   | 33    | 20  | 20  | 20  | 35  | 114   | 218   | 468   | 310   |
| Above Normal Years (14%)                    | 209   | 663   | 635   | 173   | 35  | 21  | 24  | 58  | 179   | 264   | 513   | 310   |
| Below Normal Years (18%)                    | 1,404 | 1,376 | 582   | 271   | 84  | 35  | 58  | 110 | 322   | 527   | 925   | 1,405 |
| Dry Water Years (24%)                       | 1,588 | 1,397 | 732   | 569   | 175 | 83  | 95  | 181 | 368   | 725   | 1,124 | 1,632 |
| Critical Water Years (16%)                  | 1,938 | 1,855 | 1,128 | 785   | 366 | 259 | 532 | 918 | 1,133 | 1,396 | 1,572 | 1,742 |

**Table F.2.7-2-2b. San Joaquin River at Antioch Chloride, Alt2woTUCPDeltaVA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 1,993 | 1,751 | 1,331 | 1,024 | 327 | 158 | 241 | 455 | 600 | 965   | 1,343 | 1,791 |
| 20% Exceedance                              | 1,804 | 1,662 | 1,207 | 643   | 179 | 69  | 112 | 271 | 469 | 797   | 1,233 | 1,715 |
| 30% Exceedance                              | 1,651 | 1,594 | 1,090 | 376   | 102 | 33  | 74  | 249 | 414 | 717   | 1,140 | 1,647 |
| 40% Exceedance                              | 1,546 | 1,435 | 988   | 242   | 46  | 27  | 37  | 178 | 343 | 614   | 1,042 | 1,586 |
| 50% Exceedance                              | 1,364 | 869   | 618   | 157   | 26  | 25  | 28  | 114 | 269 | 488   | 865   | 1,402 |
| 60% Exceedance                              | 277   | 779   | 356   | 58    | 24  | 23  | 25  | 62  | 248 | 326   | 606   | 394   |
| 70% Exceedance                              | 250   | 717   | 223   | 24    | 21  | 22  | 22  | 33  | 204 | 293   | 553   | 358   |
| 80% Exceedance                              | 220   | 587   | 152   | 21    | 20  | 20  | 21  | 20  | 103 | 257   | 517   | 328   |
| 90% Exceedance                              | 204   | 303   | 73    | 18    | 18  | 18  | 18  | 16  | 39  | 189   | 470   | 306   |
| Full Simulation Period Average <sup>a</sup> | 1,038 | 1,082 | 694   | 337   | 127 | 65  | 89  | 191 | 346 | 544   | 868   | 1,082 |
| Wet Water Years (28%)                       | 224   | 559   | 562   | 30    | 20  | 20  | 20  | 43  | 116 | 223   | 494   | 324   |
| Above Normal Years (14%)                    | 204   | 641   | 623   | 172   | 35  | 22  | 24  | 65  | 179 | 275   | 528   | 328   |
| Below Normal Years (18%)                    | 1,408 | 1,316 | 570   | 289   | 82  | 30  | 53  | 145 | 333 | 525   | 895   | 1,432 |
| Dry Water Years (24%)                       | 1,603 | 1,400 | 720   | 529   | 154 | 64  | 84  | 193 | 381 | 742   | 1,164 | 1,662 |
| Critical Water Years (16%)                  | 2,041 | 1,709 | 1,118 | 784   | 405 | 219 | 313 | 609 | 854 | 1,068 | 1,342 | 1,806 |

**Table F.2.7-2-2c. San Joaquin River at Antioch Chloride, Alt2woTUCPDeltaVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov  | Dec | Jan  | Feb | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|------|-----|------|-----|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | 134 | -94  | -31 | -45  | -31 | -65 | -138 | -287 | -582 | -412 | -224 | 54  |
| 20% Exceedance                              | 53  | -32  | 16  | -165 | -12 | -44 | -89  | 26   | -5   | -11  | 25   | 30  |
| 30% Exceedance                              | -12 | -33  | -41 | -18  | -22 | -3  | -9   | 39   | 25   | -6   | 21   | 20  |
| 40% Exceedance                              | -3  | -15  | 7   | 13   | 1   | -1  | 0    | 21   | -4   | -17  | -3   | 39  |
| 50% Exceedance                              | -22 | -7   | -95 | 31   | 0   | 0   | 0    | 34   | -5   | -2   | -3   | 87  |
| 60% Exceedance                              | -4  | -14  | -7  | 0    | 0   | 0   | 1    | 12   | 6    | 8    | 20   | 20  |
| 70% Exceedance                              | 8   | -40  | -14 | 0    | 0   | 1   | 0    | 5    | 13   | 13   | 24   | 22  |
| 80% Exceedance                              | -3  | -6   | -9  | 0    | 0   | 0   | 0    | 0    | -6   | 7    | 31   | 12  |
| 90% Exceedance                              | -4  | 19   | -11 | 0    | 0   | 0   | 0    | 0    | 0    | 8    | 26   | 12  |
| Full Simulation Period Average <sup>a</sup> | 20  | -36  | -9  | -8   | 1   | -12 | -38  | -37  | -39  | -46  | -23  | 29  |
| Wet Water Years (28%)                       | 2   | -2   | -1  | -2   | 0   | 0   | 0    | 8    | 2    | 5    | 26   | 13  |
| Above Normal Years (14%)                    | -5  | -23  | -11 | -2   | 0   | 1   | 0    | 7    | 0    | 11   | 15   | 18  |
| Below Normal Years (18%)                    | 4   | -59  | -12 | 18   | -2  | -5  | -5   | 35   | 11   | -2   | -29  | 27  |
| Dry Water Years (24%)                       | 15  | 3    | -12 | -40  | -21 | -19 | -10  | 13   | 13   | 17   | 40   | 30  |
| Critical Water Years (16%)                  | 103 | -146 | -10 | -1   | 39  | -40 | -218 | -309 | -278 | -328 | -230 | 64  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-2-3a. San Joaquin River at Antioch Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,859 | 1,845 | 1,361 | 1,068 | 358 | 223 | 379 | 742 | 1,182 | 1,377 | 1,567 | 1,737 |
| 20% Exceedance                              | 1,751 | 1,694 | 1,191 | 807   | 191 | 113 | 201 | 246 | 475   | 808   | 1,208 | 1,685 |
| 30% Exceedance                              | 1,663 | 1,627 | 1,132 | 394   | 124 | 36  | 83  | 211 | 389   | 723   | 1,119 | 1,627 |
| 40% Exceedance                              | 1,549 | 1,450 | 980   | 229   | 46  | 28  | 37  | 157 | 346   | 631   | 1,045 | 1,548 |
| 50% Exceedance                              | 1,386 | 876   | 713   | 126   | 26  | 25  | 28  | 80  | 274   | 490   | 868   | 1,315 |
| 60% Exceedance                              | 280   | 793   | 363   | 58    | 24  | 23  | 24  | 49  | 242   | 318   | 586   | 373   |
| 70% Exceedance                              | 242   | 758   | 237   | 24    | 21  | 21  | 22  | 28  | 192   | 279   | 529   | 336   |
| 80% Exceedance                              | 223   | 593   | 160   | 21    | 20  | 20  | 20  | 20  | 109   | 250   | 486   | 316   |
| 90% Exceedance                              | 208   | 285   | 84    | 19    | 18  | 18  | 18  | 16  | 39    | 181   | 444   | 294   |
| Full Simulation Period Average <sup>a</sup> | 1,018 | 1,118 | 703   | 344   | 126 | 76  | 127 | 228 | 384   | 590   | 891   | 1,054 |
| Wet Water Years (28%)                       | 221   | 561   | 564   | 33    | 20  | 20  | 20  | 35  | 114   | 218   | 468   | 310   |
| Above Normal Years (14%)                    | 209   | 663   | 635   | 173   | 35  | 21  | 24  | 58  | 179   | 264   | 513   | 310   |
| Below Normal Years (18%)                    | 1,404 | 1,376 | 582   | 271   | 84  | 35  | 58  | 110 | 322   | 527   | 925   | 1,405 |
| Dry Water Years (24%)                       | 1,588 | 1,397 | 732   | 569   | 175 | 83  | 95  | 181 | 368   | 725   | 1,124 | 1,632 |
| Critical Water Years (16%)                  | 1,938 | 1,855 | 1,128 | 785   | 366 | 259 | 532 | 918 | 1,133 | 1,396 | 1,572 | 1,742 |

**Table F.2.7-2-3b. San Joaquin River at Antioch Chloride, Alt2woTUCPAIIVA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 1,994 | 1,760 | 1,286 | 1,039 | 343 | 155 | 220 | 409 | 554 | 988   | 1,336 | 1,786 |
| 20% Exceedance                              | 1,763 | 1,671 | 1,200 | 685   | 180 | 67  | 92  | 230 | 440 | 793   | 1,229 | 1,705 |
| 30% Exceedance                              | 1,653 | 1,577 | 1,082 | 360   | 107 | 33  | 51  | 198 | 397 | 725   | 1,138 | 1,652 |
| 40% Exceedance                              | 1,563 | 1,448 | 980   | 234   | 46  | 27  | 30  | 142 | 329 | 602   | 1,040 | 1,582 |
| 50% Exceedance                              | 1,383 | 870   | 643   | 163   | 26  | 25  | 26  | 74  | 271 | 504   | 849   | 1,401 |
| 60% Exceedance                              | 274   | 779   | 338   | 59    | 24  | 23  | 24  | 46  | 245 | 323   | 580   | 386   |
| 70% Exceedance                              | 250   | 716   | 226   | 24    | 21  | 22  | 22  | 28  | 195 | 290   | 546   | 349   |
| 80% Exceedance                              | 221   | 587   | 153   | 21    | 20  | 20  | 21  | 20  | 105 | 249   | 514   | 328   |
| 90% Exceedance                              | 205   | 290   | 75    | 18    | 18  | 18  | 18  | 16  | 39  | 186   | 457   | 305   |
| Full Simulation Period Average <sup>a</sup> | 1,034 | 1,090 | 691   | 336   | 131 | 64  | 78  | 157 | 327 | 541   | 862   | 1,077 |
| Wet Water Years (28%)                       | 223   | 559   | 562   | 31    | 20  | 20  | 20  | 41  | 116 | 222   | 491   | 323   |
| Above Normal Years (14%)                    | 205   | 640   | 622   | 170   | 35  | 22  | 23  | 48  | 172 | 269   | 514   | 326   |
| Below Normal Years (18%)                    | 1,413 | 1,340 | 559   | 276   | 82  | 30  | 38  | 101 | 320 | 526   | 887   | 1,411 |
| Dry Water Years (24%)                       | 1,591 | 1,380 | 716   | 511   | 156 | 63  | 67  | 154 | 360 | 746   | 1,166 | 1,660 |
| Critical Water Years (16%)                  | 2,030 | 1,768 | 1,121 | 819   | 424 | 218 | 286 | 525 | 788 | 1,049 | 1,331 | 1,806 |

**Table F.2.7-2-3c. San Joaquin River at Antioch Chloride, Alt2woTUCPAIIVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan  | Feb | Mar | Apr  | May  | Jun  | Jul  | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|------|-----|-----|------|------|------|------|------|-----|
| 10% Exceedance                              | 135 | -85 | -76 | -29  | -16 | -68 | -159 | -334 | -628 | -389 | -231 | 49  |
| 20% Exceedance                              | 11  | -23 | 9   | -122 | -12 | -46 | -109 | -15  | -35  | -15  | 22   | 20  |
| 30% Exceedance                              | -10 | -49 | -49 | -34  | -17 | -3  | -33  | -13  | 8    | 2    | 19   | 25  |
| 40% Exceedance                              | 14  | -2  | 0   | 5    | 1   | -1  | -7   | -15  | -17  | -29  | -4   | 34  |
| 50% Exceedance                              | -3  | -6  | -70 | 37   | 0   | 0   | -1   | -6   | -3   | 14   | -19  | 86  |
| 60% Exceedance                              | -6  | -14 | -25 | 1    | 0   | 0   | 0    | -4   | 3    | 5    | -6   | 12  |
| 70% Exceedance                              | 9   | -42 | -11 | 0    | 0   | 0   | 0    | 0    | 3    | 10   | 17   | 13  |
| 80% Exceedance                              | -1  | -6  | -7  | 0    | 0   | 0   | 0    | 0    | -4   | -1   | 28   | 12  |
| 90% Exceedance                              | -3  | 5   | -9  | 0    | 0   | 0   | 0    | 0    | 0    | 5    | 13   | 11  |
| Full Simulation Period Average <sup>a</sup> | 16  | -28 | -12 | -8   | 4   | -12 | -50  | -71  | -58  | -49  | -29  | 24  |
| Wet Water Years (28%)                       | 2   | -2  | -2  | -2   | 0   | 0   | 0    | 6    | 2    | 4    | 23   | 12  |
| Above Normal Years (14%)                    | -4  | -23 | -13 | -3   | 0   | 1   | -1   | -10  | -7   | 5    | 1    | 16  |
| Below Normal Years (18%)                    | 9   | -36 | -24 | 5    | -2  | -5  | -20  | -9   | -2   | -1   | -38  | 6   |
| Dry Water Years (24%)                       | 3   | -17 | -16 | -57  | -19 | -20 | -28  | -27  | -8   | 21   | 42   | 28  |
| Critical Water Years (16%)                  | 92  | -88 | -7  | 34   | 58  | -41 | -246 | -393 | -345 | -347 | -241 | 64  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.7-2-4a. San Joaquin River at Antioch Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,859 | 1,845 | 1,361 | 1,068 | 358 | 223 | 379 | 742 | 1,182 | 1,377 | 1,567 | 1,737 |
| 20% Exceedance                              | 1,751 | 1,694 | 1,191 | 807   | 191 | 113 | 201 | 246 | 475   | 808   | 1,208 | 1,685 |
| 30% Exceedance                              | 1,663 | 1,627 | 1,132 | 394   | 124 | 36  | 83  | 211 | 389   | 723   | 1,119 | 1,627 |
| 40% Exceedance                              | 1,549 | 1,450 | 980   | 229   | 46  | 28  | 37  | 157 | 346   | 631   | 1,045 | 1,548 |
| 50% Exceedance                              | 1,386 | 876   | 713   | 126   | 26  | 25  | 28  | 80  | 274   | 490   | 868   | 1,315 |
| 60% Exceedance                              | 280   | 793   | 363   | 58    | 24  | 23  | 24  | 49  | 242   | 318   | 586   | 373   |
| 70% Exceedance                              | 242   | 758   | 237   | 24    | 21  | 21  | 22  | 28  | 192   | 279   | 529   | 336   |
| 80% Exceedance                              | 223   | 593   | 160   | 21    | 20  | 20  | 20  | 20  | 109   | 250   | 486   | 316   |
| 90% Exceedance                              | 208   | 285   | 84    | 19    | 18  | 18  | 18  | 16  | 39    | 181   | 444   | 294   |
| Full Simulation Period Average <sup>a</sup> | 1,018 | 1,118 | 703   | 344   | 126 | 76  | 127 | 228 | 384   | 590   | 891   | 1,054 |
| Wet Water Years (28%)                       | 221   | 561   | 564   | 33    | 20  | 20  | 20  | 35  | 114   | 218   | 468   | 310   |
| Above Normal Years (14%)                    | 209   | 663   | 635   | 173   | 35  | 21  | 24  | 58  | 179   | 264   | 513   | 310   |
| Below Normal Years (18%)                    | 1,404 | 1,376 | 582   | 271   | 84  | 35  | 58  | 110 | 322   | 527   | 925   | 1,405 |
| Dry Water Years (24%)                       | 1,588 | 1,397 | 732   | 569   | 175 | 83  | 95  | 181 | 368   | 725   | 1,124 | 1,632 |
| Critical Water Years (16%)                  | 1,938 | 1,855 | 1,128 | 785   | 366 | 259 | 532 | 918 | 1,133 | 1,396 | 1,572 | 1,742 |

**Table F.2.7-2-4b. San Joaquin River at Antioch Chloride, Alt2wTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,878 | 1,821 | 1,352 | 1,005 | 326 | 224 | 330 | 701 | 1,172 | 1,386 | 1,452 | 1,750 |
| 20% Exceedance                              | 1,804 | 1,684 | 1,221 | 678   | 165 | 117 | 209 | 273 | 474   | 801   | 1,244 | 1,695 |
| 30% Exceedance                              | 1,662 | 1,589 | 1,167 | 390   | 101 | 37  | 86  | 253 | 410   | 709   | 1,121 | 1,639 |
| 40% Exceedance                              | 1,570 | 1,464 | 1,008 | 231   | 44  | 27  | 43  | 197 | 353   | 616   | 1,022 | 1,566 |
| 50% Exceedance                              | 1,341 | 864   | 622   | 120   | 26  | 25  | 29  | 120 | 267   | 491   | 866   | 1,399 |
| 60% Exceedance                              | 277   | 777   | 351   | 52    | 24  | 23  | 24  | 63  | 243   | 326   | 617   | 395   |
| 70% Exceedance                              | 251   | 713   | 236   | 24    | 21  | 21  | 22  | 30  | 202   | 302   | 555   | 356   |
| 80% Exceedance                              | 220   | 587   | 152   | 21    | 20  | 20  | 20  | 20  | 103   | 261   | 515   | 328   |
| 90% Exceedance                              | 207   | 286   | 70    | 18    | 18  | 18  | 18  | 16  | 38    | 188   | 487   | 307   |
| Full Simulation Period Average <sup>a</sup> | 1,023 | 1,099 | 703   | 319   | 116 | 76  | 127 | 239 | 382   | 590   | 897   | 1,069 |
| Wet Water Years (28%)                       | 223   | 558   | 566   | 29    | 20  | 20  | 20  | 43  | 114   | 227   | 498   | 324   |
| Above Normal Years (14%)                    | 205   | 639   | 639   | 171   | 35  | 21  | 24  | 75  | 175   | 279   | 539   | 329   |
| Below Normal Years (18%)                    | 1,400 | 1,320 | 571   | 273   | 79  | 34  | 62  | 146 | 326   | 520   | 894   | 1,425 |
| Dry Water Years (24%)                       | 1,601 | 1,399 | 751   | 530   | 150 | 80  | 101 | 202 | 379   | 732   | 1,145 | 1,657 |
| Critical Water Years (16%)                  | 1,954 | 1,826 | 1,103 | 692   | 344 | 264 | 517 | 885 | 1,101 | 1,362 | 1,540 | 1,741 |

**Table F.2.7-2-4c. San Joaquin River at Antioch Chloride, Alt2wTUCPwoVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan  | Feb | Mar | Apr | May | Jun | Jul | Aug  | Sep |
|---------------------------------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|
| 10% Exceedance                              | 20  | -25 | -9  | -63  | -32 | 1   | -49 | -41 | -10 | 8   | -116 | 13  |
| 20% Exceedance                              | 53  | -10 | 30  | -130 | -26 | 4   | 8   | 28  | -1  | -7  | 37   | 10  |
| 30% Exceedance                              | -1  | -38 | 35  | -4   | -24 | 1   | 3   | 42  | 21  | -15 | 2    | 12  |
| 40% Exceedance                              | 20  | 13  | 28  | 2    | -1  | -1  | 6   | 40  | 7   | -15 | -23  | 19  |
| 50% Exceedance                              | -45 | -12 | -91 | -6   | 0   | 0   | 1   | 40  | -6  | 1   | -2   | 84  |
| 60% Exceedance                              | -3  | -16 | -11 | -6   | 0   | 0   | 0   | 13  | 1   | 8   | 31   | 21  |
| 70% Exceedance                              | 10  | -45 | -1  | 0    | 0   | 0   | 0   | 2   | 11  | 23  | 26   | 21  |
| 80% Exceedance                              | -3  | -6  | -9  | 0    | 0   | 0   | 0   | 0   | -5  | 11  | 29   | 12  |
| 90% Exceedance                              | -1  | 2   | -14 | 0    | 0   | 0   | 0   | 0   | -1  | 7   | 43   | 13  |
| Full Simulation Period Average <sup>a</sup> | 5   | -19 | 0   | -25  | -11 | 0   | 0   | 11  | -2  | 0   | 6    | 16  |
| Wet Water Years (28%)                       | 2   | -3  | 2   | -4   | 0   | 0   | 0   | 8   | 0   | 9   | 30   | 13  |
| Above Normal Years (14%)                    | -4  | -25 | 5   | -2   | 0   | 0   | 0   | 17  | -5  | 15  | 25   | 19  |
| Below Normal Years (18%)                    | -4  | -56 | -12 | 2    | -5  | -1  | 4   | 36  | 4   | -6  | -30  | 20  |
| Dry Water Years (24%)                       | 13  | 2   | 19  | -39  | -25 | -3  | 6   | 22  | 11  | 7   | 21   | 25  |
| Critical Water Years (16%)                  | 16  | -30 | -25 | -94  | -23 | 5   | -15 | -33 | -31 | -34 | -32  | -1  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-2-5a. San Joaquin River at Antioch Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,859 | 1,845 | 1,361 | 1,068 | 358 | 223 | 379 | 742 | 1,182 | 1,377 | 1,567 | 1,737 |
| 20% Exceedance                              | 1,751 | 1,694 | 1,191 | 807   | 191 | 113 | 201 | 246 | 475   | 808   | 1,208 | 1,685 |
| 30% Exceedance                              | 1,663 | 1,627 | 1,132 | 394   | 124 | 36  | 83  | 211 | 389   | 723   | 1,119 | 1,627 |
| 40% Exceedance                              | 1,549 | 1,450 | 980   | 229   | 46  | 28  | 37  | 157 | 346   | 631   | 1,045 | 1,548 |
| 50% Exceedance                              | 1,386 | 876   | 713   | 126   | 26  | 25  | 28  | 80  | 274   | 490   | 868   | 1,315 |
| 60% Exceedance                              | 280   | 793   | 363   | 58    | 24  | 23  | 24  | 49  | 242   | 318   | 586   | 373   |
| 70% Exceedance                              | 242   | 758   | 237   | 24    | 21  | 21  | 22  | 28  | 192   | 279   | 529   | 336   |
| 80% Exceedance                              | 223   | 593   | 160   | 21    | 20  | 20  | 20  | 20  | 109   | 250   | 486   | 316   |
| 90% Exceedance                              | 208   | 285   | 84    | 19    | 18  | 18  | 18  | 16  | 39    | 181   | 444   | 294   |
| Full Simulation Period Average <sup>a</sup> | 1,018 | 1,118 | 703   | 344   | 126 | 76  | 127 | 228 | 384   | 590   | 891   | 1,054 |
| Wet Water Years (28%)                       | 221   | 561   | 564   | 33    | 20  | 20  | 20  | 35  | 114   | 218   | 468   | 310   |
| Above Normal Years (14%)                    | 209   | 663   | 635   | 173   | 35  | 21  | 24  | 58  | 179   | 264   | 513   | 310   |
| Below Normal Years (18%)                    | 1,404 | 1,376 | 582   | 271   | 84  | 35  | 58  | 110 | 322   | 527   | 925   | 1,405 |
| Dry Water Years (24%)                       | 1,588 | 1,397 | 732   | 569   | 175 | 83  | 95  | 181 | 368   | 725   | 1,124 | 1,632 |
| Critical Water Years (16%)                  | 1,938 | 1,855 | 1,128 | 785   | 366 | 259 | 532 | 918 | 1,133 | 1,396 | 1,572 | 1,742 |

**Table F.2.7-2-5b. San Joaquin River at Antioch Chloride, EXP3, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 772 | 712 | 382 | 115 | 64  | 80  | 245 | 441 | 913 | 1,199 | 1,359 | 1,106 |
| 20% Exceedance                              | 557 | 434 | 195 | 71  | 53  | 60  | 125 | 321 | 783 | 1,067 | 1,208 | 908   |
| 30% Exceedance                              | 447 | 322 | 128 | 51  | 46  | 45  | 87  | 226 | 706 | 923   | 1,107 | 781   |
| 40% Exceedance                              | 345 | 238 | 54  | 45  | 40  | 41  | 55  | 112 | 486 | 756   | 922   | 635   |
| 50% Exceedance                              | 291 | 176 | 34  | 33  | 37  | 37  | 42  | 66  | 301 | 528   | 771   | 574   |
| 60% Exceedance                              | 225 | 125 | 29  | 30  | 35  | 35  | 36  | 37  | 195 | 418   | 666   | 462   |
| 70% Exceedance                              | 181 | 92  | 28  | 28  | 30  | 31  | 30  | 31  | 104 | 297   | 563   | 352   |
| 80% Exceedance                              | 144 | 59  | 27  | 26  | 26  | 28  | 26  | 25  | 37  | 197   | 436   | 264   |
| 90% Exceedance                              | 107 | 45  | 23  | 22  | 21  | 21  | 20  | 14  | 19  | 142   | 273   | 136   |
| Full Simulation Period Average <sup>a</sup> | 359 | 281 | 132 | 78  | 53  | 49  | 92  | 170 | 412 | 635   | 818   | 595   |
| Wet Water Years (28%)                       | 161 | 96  | 37  | 27  | 28  | 27  | 24  | 24  | 76  | 198   | 369   | 251   |
| Above Normal Years (14%)                    | 221 | 164 | 43  | 36  | 37  | 35  | 36  | 50  | 192 | 331   | 546   | 405   |
| Below Normal Years (18%)                    | 306 | 225 | 111 | 36  | 40  | 39  | 60  | 128 | 428 | 615   | 784   | 546   |
| Dry Water Years (24%)                       | 436 | 320 | 187 | 78  | 47  | 48  | 90  | 209 | 590 | 884   | 1,086 | 781   |
| Critical Water Years (16%)                  | 809 | 748 | 332 | 252 | 132 | 112 | 297 | 517 | 910 | 1,316 | 1,480 | 1,143 |

**Table F.2.7-2-5c. San Joaquin River at Antioch Chloride, EXP3 minus NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct    | Nov    | Dec    | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|--------|--------|--------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -1,086 | -1,133 | -979   | -954 | -295 | -143 | -134 | -301 | -269 | -179 | -208 | -631 |
| 20% Exceedance                              | -1,195 | -1,259 | -996   | -737 | -139 | -53  | -76  | 75   | 309  | 259  | 1    | -777 |
| 30% Exceedance                              | -1,216 | -1,304 | -1,004 | -343 | -78  | 9    | 3    | 15   | 317  | 200  | -12  | -845 |
| 40% Exceedance                              | -1,204 | -1,212 | -926   | -185 | -5   | 13   | 18   | -45  | 140  | 125  | -123 | -913 |
| 50% Exceedance                              | -1,094 | -700   | -679   | -93  | 12   | 11   | 14   | -14  | 27   | 38   | -96  | -741 |
| 60% Exceedance                              | -55    | -668   | -333   | -29  | 11   | 12   | 12   | -12  | -47  | 100  | 80   | 88   |
| 70% Exceedance                              | -61    | -666   | -209   | 4    | 9    | 10   | 8    | 3    | -88  | 18   | 34   | 17   |
| 80% Exceedance                              | -79    | -533   | -134   | 5    | 6    | 9    | 5    | 5    | -72  | -53  | -49  | -52  |
| 90% Exceedance                              | -101   | -239   | -61    | 4    | 3    | 2    | 1    | -2   | -20  | -39  | -171 | -158 |
| Full Simulation Period Average <sup>a</sup> | -658   | -837   | -571   | -266 | -74  | -27  | -35  | -58  | 28   | 45   | -72  | -458 |
| Wet Water Years (28%)                       | -60    | -465   | -527   | -6   | 8    | 7    | 4    | -11  | -38  | -20  | -99  | -59  |
| Above Normal Years (14%)                    | 13     | -499   | -591   | -137 | 2    | 13   | 12   | -8   | 13   | 67   | 33   | 94   |
| Below Normal Years (18%)                    | -1,098 | -1,151 | -471   | -235 | -44  | 4    | 2    | 17   | 106  | 88   | -141 | -859 |
| Dry Water Years (24%)                       | -1,152 | -1,077 | -545   | -491 | -128 | -35  | -4   | 29   | 222  | 159  | -38  | -851 |
| Critical Water Years (16%)                  | -1,129 | -1,107 | -796   | -533 | -235 | -147 | -235 | -401 | -223 | -80  | -92  | -599 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-2-6a. San Joaquin River at Antioch Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 3,326 | 3,324 | 1,314 | 228 | 68  | 62  | 99  | 598 | 2,026 | 3,459 | 4,252 | 3,954 |
| 20% Exceedance                              | 2,893 | 1,947 | 625   | 116 | 54  | 46  | 53  | 264 | 1,481 | 3,139 | 4,123 | 3,709 |
| 30% Exceedance                              | 2,193 | 1,140 | 439   | 85  | 46  | 42  | 43  | 123 | 1,018 | 2,769 | 3,829 | 3,454 |
| 40% Exceedance                              | 1,483 | 727   | 244   | 64  | 43  | 38  | 36  | 79  | 696   | 2,309 | 3,619 | 3,147 |
| 50% Exceedance                              | 1,071 | 565   | 117   | 49  | 37  | 35  | 32  | 37  | 447   | 1,907 | 3,421 | 2,785 |
| 60% Exceedance                              | 656   | 362   | 78    | 36  | 35  | 33  | 29  | 29  | 224   | 1,462 | 3,007 | 2,065 |
| 70% Exceedance                              | 392   | 266   | 51    | 32  | 31  | 29  | 27  | 26  | 95    | 986   | 2,446 | 1,372 |
| 80% Exceedance                              | 307   | 146   | 39    | 27  | 26  | 27  | 23  | 23  | 29    | 548   | 1,454 | 898   |
| 90% Exceedance                              | 217   | 83    | 28    | 24  | 21  | 20  | 17  | 11  | 16    | 292   | 896   | 538   |
| Full Simulation Period Average <sup>a</sup> | 1,495 | 1,093 | 448   | 162 | 73  | 45  | 67  | 204 | 752   | 1,893 | 2,931 | 2,397 |
| Wet Water Years (28%)                       | 383   | 277   | 137   | 31  | 27  | 24  | 20  | 23  | 101   | 688   | 1,531 | 928   |
| Above Normal Years (14%)                    | 736   | 436   | 142   | 51  | 36  | 32  | 28  | 35  | 257   | 1,359 | 2,593 | 1,779 |
| Below Normal Years (18%)                    | 1,485 | 878   | 337   | 73  | 42  | 37  | 35  | 115 | 715   | 2,121 | 3,379 | 2,632 |
| Dry Water Years (24%)                       | 2,044 | 1,359 | 625   | 105 | 46  | 42  | 48  | 191 | 1,011 | 2,521 | 3,702 | 3,284 |
| Critical Water Years (16%)                  | 3,466 | 3,107 | 1,183 | 673 | 262 | 109 | 249 | 788 | 1,978 | 3,271 | 4,017 | 3,916 |

**Table F.2.7-2-6b. San Joaquin River at Antioch Chloride, Alt2woTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 1,991 | 1,736 | 1,350 | 1,022 | 328 | 145 | 259 | 452 | 605 | 958   | 1,314 | 1,779 |
| 20% Exceedance                              | 1,803 | 1,648 | 1,213 | 645   | 164 | 76  | 144 | 273 | 452 | 785   | 1,224 | 1,719 |
| 30% Exceedance                              | 1,662 | 1,582 | 1,117 | 343   | 101 | 33  | 76  | 253 | 400 | 701   | 1,122 | 1,653 |
| 40% Exceedance                              | 1,575 | 1,455 | 981   | 253   | 46  | 27  | 43  | 203 | 350 | 602   | 1,029 | 1,573 |
| 50% Exceedance                              | 1,336 | 864   | 615   | 143   | 26  | 26  | 29  | 120 | 266 | 489   | 866   | 1,409 |
| 60% Exceedance                              | 277   | 777   | 348   | 52    | 24  | 23  | 24  | 63  | 243 | 325   | 617   | 394   |
| 70% Exceedance                              | 251   | 714   | 224   | 24    | 21  | 21  | 22  | 30  | 202 | 302   | 555   | 356   |
| 80% Exceedance                              | 220   | 586   | 152   | 21    | 20  | 20  | 20  | 20  | 104 | 261   | 515   | 327   |
| 90% Exceedance                              | 207   | 288   | 71    | 18    | 18  | 18  | 18  | 16  | 38  | 188   | 487   | 307   |
| Full Simulation Period Average <sup>a</sup> | 1,034 | 1,079 | 697   | 332   | 117 | 68  | 95  | 195 | 343 | 542   | 863   | 1,080 |
| Wet Water Years (28%)                       | 223   | 558   | 566   | 29    | 20  | 20  | 20  | 43  | 114 | 227   | 498   | 324   |
| Above Normal Years (14%)                    | 203   | 638   | 639   | 171   | 35  | 21  | 24  | 75  | 175 | 279   | 538   | 328   |
| Below Normal Years (18%)                    | 1,407 | 1,320 | 562   | 286   | 80  | 34  | 62  | 146 | 327 | 523   | 893   | 1,435 |
| Dry Water Years (24%)                       | 1,601 | 1,401 | 736   | 520   | 150 | 80  | 101 | 203 | 379 | 731   | 1,145 | 1,658 |
| Critical Water Years (16%)                  | 2,021 | 1,690 | 1,099 | 771   | 353 | 212 | 313 | 609 | 854 | 1,060 | 1,331 | 1,792 |

**Table F.2.7-2-6c. San Joaquin River at Antioch Chloride, Alt2woTUCPwoVA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct    | Nov    | Dec | Jan | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-----|-----|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -1,335 | -1,588 | 36  | 794 | 260 | 83  | 160 | -146 | -1,420 | -2,502 | -2,938 | -2,175 |
| 20% Exceedance                              | -1,090 | -299   | 589 | 529 | 110 | 30  | 90  | 9    | -1,030 | -2,354 | -2,898 | -1,990 |
| 30% Exceedance                              | -530   | 443    | 677 | 258 | 55  | -8  | 32  | 129  | -619   | -2,069 | -2,707 | -1,801 |
| 40% Exceedance                              | 92     | 728    | 737 | 189 | 4   | -10 | 7   | 124  | -347   | -1,707 | -2,590 | -1,574 |
| 50% Exceedance                              | 265    | 299    | 498 | 94  | -11 | -10 | -4  | 83   | -181   | -1,418 | -2,555 | -1,377 |
| 60% Exceedance                              | -380   | 416    | 270 | 16  | -11 | -10 | -6  | 34   | 18     | -1,136 | -2,391 | -1,671 |
| 70% Exceedance                              | -141   | 447    | 172 | -9  | -9  | -8  | -6  | 4    | 107    | -684   | -1,891 | -1,015 |
| 80% Exceedance                              | -86    | 440    | 113 | -6  | -6  | -7  | -3  | -3   | 75     | -286   | -939   | -570   |
| 90% Exceedance                              | -10    | 204    | 43  | -6  | -3  | -1  | 2   | 5    | 22     | -104   | -409   | -231   |
| Full Simulation Period Average <sup>a</sup> | -462   | -14    | 249 | 170 | 44  | 22  | 27  | -9   | -409   | -1,351 | -2,068 | -1,318 |
| Wet Water Years (28%)                       | -160   | 281    | 429 | -2  | -7  | -4  | 0   | 20   | 13     | -461   | -1,034 | -604   |
| Above Normal Years (14%)                    | -533   | 202    | 497 | 120 | -1  | -11 | -4  | 40   | -82    | -1,080 | -2,055 | -1,451 |
| Below Normal Years (18%)                    | -77    | 442    | 224 | 213 | 38  | -3  | 27  | 31   | -388   | -1,599 | -2,486 | -1,197 |
| Dry Water Years (24%)                       | -443   | 42     | 111 | 414 | 104 | 38  | 53  | 12   | -632   | -1,789 | -2,557 | -1,627 |
| Critical Water Years (16%)                  | -1,444 | -1,417 | -84 | 98  | 91  | 103 | 64  | -179 | -1,124 | -2,211 | -2,686 | -2,123 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-2-7a. San Joaquin River at Antioch Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 3,326 | 3,324 | 1,314 | 228 | 68  | 62  | 99  | 598 | 2,026 | 3,459 | 4,252 | 3,954 |
| 20% Exceedance                              | 2,893 | 1,947 | 625   | 116 | 54  | 46  | 53  | 264 | 1,481 | 3,139 | 4,123 | 3,709 |
| 30% Exceedance                              | 2,193 | 1,140 | 439   | 85  | 46  | 42  | 43  | 123 | 1,018 | 2,769 | 3,829 | 3,454 |
| 40% Exceedance                              | 1,483 | 727   | 244   | 64  | 43  | 38  | 36  | 79  | 696   | 2,309 | 3,619 | 3,147 |
| 50% Exceedance                              | 1,071 | 565   | 117   | 49  | 37  | 35  | 32  | 37  | 447   | 1,907 | 3,421 | 2,785 |
| 60% Exceedance                              | 656   | 362   | 78    | 36  | 35  | 33  | 29  | 29  | 224   | 1,462 | 3,007 | 2,065 |
| 70% Exceedance                              | 392   | 266   | 51    | 32  | 31  | 29  | 27  | 26  | 95    | 986   | 2,446 | 1,372 |
| 80% Exceedance                              | 307   | 146   | 39    | 27  | 26  | 27  | 23  | 23  | 29    | 548   | 1,454 | 898   |
| 90% Exceedance                              | 217   | 83    | 28    | 24  | 21  | 20  | 17  | 11  | 16    | 292   | 896   | 538   |
| Full Simulation Period Average <sup>a</sup> | 1,495 | 1,093 | 448   | 162 | 73  | 45  | 67  | 204 | 752   | 1,893 | 2,931 | 2,397 |
| Wet Water Years (28%)                       | 383   | 277   | 137   | 31  | 27  | 24  | 20  | 23  | 101   | 688   | 1,531 | 928   |
| Above Normal Years (14%)                    | 736   | 436   | 142   | 51  | 36  | 32  | 28  | 35  | 257   | 1,359 | 2,593 | 1,779 |
| Below Normal Years (18%)                    | 1,485 | 878   | 337   | 73  | 42  | 37  | 35  | 115 | 715   | 2,121 | 3,379 | 2,632 |
| Dry Water Years (24%)                       | 2,044 | 1,359 | 625   | 105 | 46  | 42  | 48  | 191 | 1,011 | 2,521 | 3,702 | 3,284 |
| Critical Water Years (16%)                  | 3,466 | 3,107 | 1,183 | 673 | 262 | 109 | 249 | 788 | 1,978 | 3,271 | 4,017 | 3,916 |

**Table F.2.7-2-7b. San Joaquin River at Antioch Chloride, Alt2woTUCPDeltaVA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 1,993 | 1,751 | 1,331 | 1,024 | 327 | 158 | 241 | 455 | 600 | 965   | 1,343 | 1,791 |
| 20% Exceedance                              | 1,804 | 1,662 | 1,207 | 643   | 179 | 69  | 112 | 271 | 469 | 797   | 1,233 | 1,715 |
| 30% Exceedance                              | 1,651 | 1,594 | 1,090 | 376   | 102 | 33  | 74  | 249 | 414 | 717   | 1,140 | 1,647 |
| 40% Exceedance                              | 1,546 | 1,435 | 988   | 242   | 46  | 27  | 37  | 178 | 343 | 614   | 1,042 | 1,586 |
| 50% Exceedance                              | 1,364 | 869   | 618   | 157   | 26  | 25  | 28  | 114 | 269 | 488   | 865   | 1,402 |
| 60% Exceedance                              | 277   | 779   | 356   | 58    | 24  | 23  | 25  | 62  | 248 | 326   | 606   | 394   |
| 70% Exceedance                              | 250   | 717   | 223   | 24    | 21  | 22  | 22  | 33  | 204 | 293   | 553   | 358   |
| 80% Exceedance                              | 220   | 587   | 152   | 21    | 20  | 20  | 21  | 20  | 103 | 257   | 517   | 328   |
| 90% Exceedance                              | 204   | 303   | 73    | 18    | 18  | 18  | 18  | 16  | 39  | 189   | 470   | 306   |
| Full Simulation Period Average <sup>a</sup> | 1,038 | 1,082 | 694   | 337   | 127 | 65  | 89  | 191 | 346 | 544   | 868   | 1,082 |
| Wet Water Years (28%)                       | 224   | 559   | 562   | 30    | 20  | 20  | 20  | 43  | 116 | 223   | 494   | 324   |
| Above Normal Years (14%)                    | 204   | 641   | 623   | 172   | 35  | 22  | 24  | 65  | 179 | 275   | 528   | 328   |
| Below Normal Years (18%)                    | 1,408 | 1,316 | 570   | 289   | 82  | 30  | 53  | 145 | 333 | 525   | 895   | 1,432 |
| Dry Water Years (24%)                       | 1,603 | 1,400 | 720   | 529   | 154 | 64  | 84  | 193 | 381 | 742   | 1,164 | 1,662 |
| Critical Water Years (16%)                  | 2,041 | 1,709 | 1,118 | 784   | 405 | 219 | 313 | 609 | 854 | 1,068 | 1,342 | 1,806 |

**Table F.2.7-2-7c. San Joaquin River at Antioch Chloride, Alt2woTUCPDeltaVA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct    | Nov    | Dec | Jan | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-----|-----|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -1,333 | -1,573 | 17  | 796 | 259 | 96  | 142 | -143 | -1,426 | -2,494 | -2,909 | -2,163 |
| 20% Exceedance                              | -1,089 | -286   | 582 | 526 | 125 | 23  | 58  | 8    | -1,012 | -2,342 | -2,890 | -1,994 |
| 30% Exceedance                              | -542   | 454    | 651 | 291 | 57  | -8  | 31  | 126  | -604   | -2,052 | -2,689 | -1,807 |
| 40% Exceedance                              | 63     | 708    | 744 | 178 | 4   | -11 | 1   | 98   | -353   | -1,695 | -2,577 | -1,560 |
| 50% Exceedance                              | 293    | 304    | 501 | 108 | -11 | -10 | -4  | 77   | -178   | -1,419 | -2,557 | -1,383 |
| 60% Exceedance                              | -380   | 417    | 278 | 22  | -11 | -10 | -5  | 33   | 23     | -1,136 | -2,401 | -1,672 |
| 70% Exceedance                              | -142   | 451    | 171 | -8  | -9  | -8  | -5  | 7    | 109    | -694   | -1,894 | -1,014 |
| 80% Exceedance                              | -87    | 440    | 113 | -6  | -6  | -7  | -2  | -2   | 74     | -291   | -938   | -570   |
| 90% Exceedance                              | -13    | 220    | 45  | -6  | -3  | -1  | 2   | 5    | 22     | -104   | -426   | -232   |
| Full Simulation Period Average <sup>a</sup> | -458   | -11    | 246 | 175 | 54  | 19  | 22  | -13  | -406   | -1,349 | -2,064 | -1,315 |
| Wet Water Years (28%)                       | -159   | 282    | 425 | 0   | -7  | -4  | 0   | 20   | 16     | -465   | -1,037 | -604   |
| Above Normal Years (14%)                    | -531   | 205    | 481 | 120 | -1  | -10 | -4  | 30   | -77    | -1,084 | -2,065 | -1,451 |
| Below Normal Years (18%)                    | -76    | 438    | 233 | 216 | 40  | -7  | 17  | 30   | -382   | -1,596 | -2,484 | -1,200 |
| Dry Water Years (24%)                       | -441   | 41     | 95  | 423 | 108 | 22  | 36  | 2    | -630   | -1,779 | -2,538 | -1,623 |
| Critical Water Years (16%)                  | -1,425 | -1,398 | -65 | 112 | 143 | 110 | 64  | -179 | -1,123 | -2,203 | -2,674 | -2,110 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-2-8a. San Joaquin River at Antioch Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 3,326 | 3,324 | 1,314 | 228 | 68  | 62  | 99  | 598 | 2,026 | 3,459 | 4,252 | 3,954 |
| 20% Exceedance                              | 2,893 | 1,947 | 625   | 116 | 54  | 46  | 53  | 264 | 1,481 | 3,139 | 4,123 | 3,709 |
| 30% Exceedance                              | 2,193 | 1,140 | 439   | 85  | 46  | 42  | 43  | 123 | 1,018 | 2,769 | 3,829 | 3,454 |
| 40% Exceedance                              | 1,483 | 727   | 244   | 64  | 43  | 38  | 36  | 79  | 696   | 2,309 | 3,619 | 3,147 |
| 50% Exceedance                              | 1,071 | 565   | 117   | 49  | 37  | 35  | 32  | 37  | 447   | 1,907 | 3,421 | 2,785 |
| 60% Exceedance                              | 656   | 362   | 78    | 36  | 35  | 33  | 29  | 29  | 224   | 1,462 | 3,007 | 2,065 |
| 70% Exceedance                              | 392   | 266   | 51    | 32  | 31  | 29  | 27  | 26  | 95    | 986   | 2,446 | 1,372 |
| 80% Exceedance                              | 307   | 146   | 39    | 27  | 26  | 27  | 23  | 23  | 29    | 548   | 1,454 | 898   |
| 90% Exceedance                              | 217   | 83    | 28    | 24  | 21  | 20  | 17  | 11  | 16    | 292   | 896   | 538   |
| Full Simulation Period Average <sup>a</sup> | 1,495 | 1,093 | 448   | 162 | 73  | 45  | 67  | 204 | 752   | 1,893 | 2,931 | 2,397 |
| Wet Water Years (28%)                       | 383   | 277   | 137   | 31  | 27  | 24  | 20  | 23  | 101   | 688   | 1,531 | 928   |
| Above Normal Years (14%)                    | 736   | 436   | 142   | 51  | 36  | 32  | 28  | 35  | 257   | 1,359 | 2,593 | 1,779 |
| Below Normal Years (18%)                    | 1,485 | 878   | 337   | 73  | 42  | 37  | 35  | 115 | 715   | 2,121 | 3,379 | 2,632 |
| Dry Water Years (24%)                       | 2,044 | 1,359 | 625   | 105 | 46  | 42  | 48  | 191 | 1,011 | 2,521 | 3,702 | 3,284 |
| Critical Water Years (16%)                  | 3,466 | 3,107 | 1,183 | 673 | 262 | 109 | 249 | 788 | 1,978 | 3,271 | 4,017 | 3,916 |

**Table F.2.7-2-8b. San Joaquin River at Antioch Chloride, Alt2woTUCPAIIVA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|
| 10% Exceedance                              | 1,994 | 1,760 | 1,286 | 1,039 | 343 | 155 | 220 | 409 | 554 | 988   | 1,336 | 1,786 |
| 20% Exceedance                              | 1,763 | 1,671 | 1,200 | 685   | 180 | 67  | 92  | 230 | 440 | 793   | 1,229 | 1,705 |
| 30% Exceedance                              | 1,653 | 1,577 | 1,082 | 360   | 107 | 33  | 51  | 198 | 397 | 725   | 1,138 | 1,652 |
| 40% Exceedance                              | 1,563 | 1,448 | 980   | 234   | 46  | 27  | 30  | 142 | 329 | 602   | 1,040 | 1,582 |
| 50% Exceedance                              | 1,383 | 870   | 643   | 163   | 26  | 25  | 26  | 74  | 271 | 504   | 849   | 1,401 |
| 60% Exceedance                              | 274   | 779   | 338   | 59    | 24  | 23  | 24  | 46  | 245 | 323   | 580   | 386   |
| 70% Exceedance                              | 250   | 716   | 226   | 24    | 21  | 22  | 22  | 28  | 195 | 290   | 546   | 349   |
| 80% Exceedance                              | 221   | 587   | 153   | 21    | 20  | 20  | 21  | 20  | 105 | 249   | 514   | 328   |
| 90% Exceedance                              | 205   | 290   | 75    | 18    | 18  | 18  | 18  | 16  | 39  | 186   | 457   | 305   |
| Full Simulation Period Average <sup>a</sup> | 1,034 | 1,090 | 691   | 336   | 131 | 64  | 78  | 157 | 327 | 541   | 862   | 1,077 |
| Wet Water Years (28%)                       | 223   | 559   | 562   | 31    | 20  | 20  | 20  | 41  | 116 | 222   | 491   | 323   |
| Above Normal Years (14%)                    | 205   | 640   | 622   | 170   | 35  | 22  | 23  | 48  | 172 | 269   | 514   | 326   |
| Below Normal Years (18%)                    | 1,413 | 1,340 | 559   | 276   | 82  | 30  | 38  | 101 | 320 | 526   | 887   | 1,411 |
| Dry Water Years (24%)                       | 1,591 | 1,380 | 716   | 511   | 156 | 63  | 67  | 154 | 360 | 746   | 1,166 | 1,660 |
| Critical Water Years (16%)                  | 2,030 | 1,768 | 1,121 | 819   | 424 | 218 | 286 | 525 | 788 | 1,049 | 1,331 | 1,806 |

**Table F.2.7-2-8c. San Joaquin River at Antioch Chloride, Alt2woTUCPAIIVA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct    | Nov    | Dec | Jan | Feb | Mar | Apr | May  | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-----|-----|-----|-----|-----|------|--------|--------|--------|--------|
| 10% Exceedance                              | -1,332 | -1,564 | -28 | 812 | 275 | 93  | 121 | -189 | -1,471 | -2,471 | -2,915 | -2,168 |
| 20% Exceedance                              | -1,130 | -276   | 575 | 569 | 125 | 21  | 39  | -33  | -1,041 | -2,346 | -2,893 | -2,004 |
| 30% Exceedance                              | -539   | 438    | 643 | 275 | 61  | -9  | 7   | 75   | -622   | -2,045 | -2,691 | -1,802 |
| 40% Exceedance                              | 80     | 721    | 737 | 170 | 4   | -11 | -6  | 62   | -367   | -1,707 | -2,579 | -1,565 |
| 50% Exceedance                              | 312    | 305    | 526 | 114 | -11 | -10 | -6  | 37   | -176   | -1,402 | -2,573 | -1,384 |
| 60% Exceedance                              | -382   | 417    | 260 | 23  | -11 | -9  | -6  | 17   | 21     | -1,139 | -2,427 | -1,680 |
| 70% Exceedance                              | -142   | 450    | 175 | -8  | -9  | -8  | -6  | 3    | 100    | -697   | -1,900 | -1,023 |
| 80% Exceedance                              | -86    | 441    | 114 | -6  | -6  | -7  | -2  | -3   | 77     | -298   | -940   | -570   |
| 90% Exceedance                              | -12    | 206    | 47  | -6  | -3  | -1  | 1   | 5    | 22     | -106   | -439   | -233   |
| Full Simulation Period Average <sup>a</sup> | -462   | -3     | 243 | 174 | 57  | 19  | 10  | -46  | -425   | -1,352 | -2,069 | -1,320 |
| Wet Water Years (28%)                       | -160   | 282    | 425 | 1   | -7  | -4  | 0   | 19   | 15     | -466   | -1,040 | -605   |
| Above Normal Years (14%)                    | -531   | 204    | 480 | 119 | -1  | -10 | -5  | 13   | -84    | -1,090 | -2,080 | -1,453 |
| Below Normal Years (18%)                    | -72    | 462    | 222 | 203 | 40  | -7  | 2   | -14  | -395   | -1,595 | -2,493 | -1,221 |
| Dry Water Years (24%)                       | -454   | 21     | 91  | 406 | 110 | 21  | 19  | -37  | -652   | -1,775 | -2,536 | -1,625 |
| Critical Water Years (16%)                  | -1,436 | -1,339 | -61 | 147 | 162 | 109 | 37  | -263 | -1,190 | -2,222 | -2,685 | -2,110 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-2-9a. San Joaquin River at Antioch Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 3,326 | 3,324 | 1,314 | 228 | 68  | 62  | 99  | 598 | 2,026 | 3,459 | 4,252 | 3,954 |
| 20% Exceedance                              | 2,893 | 1,947 | 625   | 116 | 54  | 46  | 53  | 264 | 1,481 | 3,139 | 4,123 | 3,709 |
| 30% Exceedance                              | 2,193 | 1,140 | 439   | 85  | 46  | 42  | 43  | 123 | 1,018 | 2,769 | 3,829 | 3,454 |
| 40% Exceedance                              | 1,483 | 727   | 244   | 64  | 43  | 38  | 36  | 79  | 696   | 2,309 | 3,619 | 3,147 |
| 50% Exceedance                              | 1,071 | 565   | 117   | 49  | 37  | 35  | 32  | 37  | 447   | 1,907 | 3,421 | 2,785 |
| 60% Exceedance                              | 656   | 362   | 78    | 36  | 35  | 33  | 29  | 29  | 224   | 1,462 | 3,007 | 2,065 |
| 70% Exceedance                              | 392   | 266   | 51    | 32  | 31  | 29  | 27  | 26  | 95    | 986   | 2,446 | 1,372 |
| 80% Exceedance                              | 307   | 146   | 39    | 27  | 26  | 27  | 23  | 23  | 29    | 548   | 1,454 | 898   |
| 90% Exceedance                              | 217   | 83    | 28    | 24  | 21  | 20  | 17  | 11  | 16    | 292   | 896   | 538   |
| Full Simulation Period Average <sup>a</sup> | 1,495 | 1,093 | 448   | 162 | 73  | 45  | 67  | 204 | 752   | 1,893 | 2,931 | 2,397 |
| Wet Water Years (28%)                       | 383   | 277   | 137   | 31  | 27  | 24  | 20  | 23  | 101   | 688   | 1,531 | 928   |
| Above Normal Years (14%)                    | 736   | 436   | 142   | 51  | 36  | 32  | 28  | 35  | 257   | 1,359 | 2,593 | 1,779 |
| Below Normal Years (18%)                    | 1,485 | 878   | 337   | 73  | 42  | 37  | 35  | 115 | 715   | 2,121 | 3,379 | 2,632 |
| Dry Water Years (24%)                       | 2,044 | 1,359 | 625   | 105 | 46  | 42  | 48  | 191 | 1,011 | 2,521 | 3,702 | 3,284 |
| Critical Water Years (16%)                  | 3,466 | 3,107 | 1,183 | 673 | 262 | 109 | 249 | 788 | 1,978 | 3,271 | 4,017 | 3,916 |

**Table F.2.7-2-9b. San Joaquin River at Antioch Chloride, Alt2wTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,878 | 1,821 | 1,352 | 1,005 | 326 | 224 | 330 | 701 | 1,172 | 1,386 | 1,452 | 1,750 |
| 20% Exceedance                              | 1,804 | 1,684 | 1,221 | 678   | 165 | 117 | 209 | 273 | 474   | 801   | 1,244 | 1,695 |
| 30% Exceedance                              | 1,662 | 1,589 | 1,167 | 390   | 101 | 37  | 86  | 253 | 410   | 709   | 1,121 | 1,639 |
| 40% Exceedance                              | 1,570 | 1,464 | 1,008 | 231   | 44  | 27  | 43  | 197 | 353   | 616   | 1,022 | 1,566 |
| 50% Exceedance                              | 1,341 | 864   | 622   | 120   | 26  | 25  | 29  | 120 | 267   | 491   | 866   | 1,399 |
| 60% Exceedance                              | 277   | 777   | 351   | 52    | 24  | 23  | 24  | 63  | 243   | 326   | 617   | 395   |
| 70% Exceedance                              | 251   | 713   | 236   | 24    | 21  | 21  | 22  | 30  | 202   | 302   | 555   | 356   |
| 80% Exceedance                              | 220   | 587   | 152   | 21    | 20  | 20  | 20  | 20  | 103   | 261   | 515   | 328   |
| 90% Exceedance                              | 207   | 286   | 70    | 18    | 18  | 18  | 18  | 16  | 38    | 188   | 487   | 307   |
| Full Simulation Period Average <sup>a</sup> | 1,023 | 1,099 | 703   | 319   | 116 | 76  | 127 | 239 | 382   | 590   | 897   | 1,069 |
| Wet Water Years (28%)                       | 223   | 558   | 566   | 29    | 20  | 20  | 20  | 43  | 114   | 227   | 498   | 324   |
| Above Normal Years (14%)                    | 205   | 639   | 639   | 171   | 35  | 21  | 24  | 75  | 175   | 279   | 539   | 329   |
| Below Normal Years (18%)                    | 1,400 | 1,320 | 571   | 273   | 79  | 34  | 62  | 146 | 326   | 520   | 894   | 1,425 |
| Dry Water Years (24%)                       | 1,601 | 1,399 | 751   | 530   | 150 | 80  | 101 | 202 | 379   | 732   | 1,145 | 1,657 |
| Critical Water Years (16%)                  | 1,954 | 1,826 | 1,103 | 692   | 344 | 264 | 517 | 885 | 1,101 | 1,362 | 1,540 | 1,741 |

**Table F.2.7-2-9c. San Joaquin River at Antioch Chloride, Alt2wTUCPwoVA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct    | Nov    | Dec | Jan | Feb | Mar | Apr | May | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-----|-----|-----|-----|-----|-----|--------|--------|--------|--------|
| 10% Exceedance                              | -1,448 | -1,503 | 38  | 778 | 258 | 162 | 231 | 103 | -853   | -2,074 | -2,800 | -2,204 |
| 20% Exceedance                              | -1,089 | -263   | 596 | 561 | 111 | 71  | 155 | 9   | -1,008 | -2,337 | -2,878 | -2,014 |
| 30% Exceedance                              | -531   | 449    | 728 | 305 | 55  | -5  | 43  | 129 | -608   | -2,061 | -2,708 | -1,815 |
| 40% Exceedance                              | 87     | 736    | 764 | 167 | 2   | -10 | 7   | 118 | -343   | -1,693 | -2,597 | -1,580 |
| 50% Exceedance                              | 269    | 300    | 504 | 71  | -11 | -10 | -4  | 83  | -180   | -1,416 | -2,556 | -1,387 |
| 60% Exceedance                              | -379   | 416    | 274 | 16  | -11 | -10 | -6  | 34  | 18     | -1,136 | -2,391 | -1,671 |
| 70% Exceedance                              | -141   | 447    | 184 | -9  | -9  | -8  | -6  | 4   | 107    | -684   | -1,891 | -1,015 |
| 80% Exceedance                              | -87    | 441    | 113 | -6  | -6  | -7  | -3  | -3  | 75     | -287   | -939   | -570   |
| 90% Exceedance                              | -10    | 203    | 42  | -6  | -3  | -1  | 2   | 5   | 21     | -104   | -409   | -231   |
| Full Simulation Period Average <sup>a</sup> | -473   | 6      | 255 | 157 | 42  | 31  | 60  | 35  | -370   | -1,303 | -2,034 | -1,328 |
| Wet Water Years (28%)                       | -160   | 281    | 428 | -1  | -7  | -4  | 0   | 20  | 13     | -461   | -1,034 | -604   |
| Above Normal Years (14%)                    | -531   | 203    | 497 | 120 | -2  | -11 | -4  | 40  | -82    | -1,079 | -2,055 | -1,450 |
| Below Normal Years (18%)                    | -85    | 442    | 233 | 201 | 37  | -3  | 27  | 31  | -389   | -1,601 | -2,485 | -1,207 |
| Dry Water Years (24%)                       | -443   | 40     | 126 | 425 | 104 | 38  | 53  | 12  | -632   | -1,788 | -2,557 | -1,627 |
| Critical Water Years (16%)                  | -1,512 | -1,281 | -80 | 19  | 81  | 155 | 267 | 97  | -876   | -1,909 | -2,477 | -2,175 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-2-10a. San Joaquin River at Antioch Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 3,326 | 3,324 | 1,314 | 228 | 68  | 62  | 99  | 598 | 2,026 | 3,459 | 4,252 | 3,954 |
| 20% Exceedance                              | 2,893 | 1,947 | 625   | 116 | 54  | 46  | 53  | 264 | 1,481 | 3,139 | 4,123 | 3,709 |
| 30% Exceedance                              | 2,193 | 1,140 | 439   | 85  | 46  | 42  | 43  | 123 | 1,018 | 2,769 | 3,829 | 3,454 |
| 40% Exceedance                              | 1,483 | 727   | 244   | 64  | 43  | 38  | 36  | 79  | 696   | 2,309 | 3,619 | 3,147 |
| 50% Exceedance                              | 1,071 | 565   | 117   | 49  | 37  | 35  | 32  | 37  | 447   | 1,907 | 3,421 | 2,785 |
| 60% Exceedance                              | 656   | 362   | 78    | 36  | 35  | 33  | 29  | 29  | 224   | 1,462 | 3,007 | 2,065 |
| 70% Exceedance                              | 392   | 266   | 51    | 32  | 31  | 29  | 27  | 26  | 95    | 986   | 2,446 | 1,372 |
| 80% Exceedance                              | 307   | 146   | 39    | 27  | 26  | 27  | 23  | 23  | 29    | 548   | 1,454 | 898   |
| 90% Exceedance                              | 217   | 83    | 28    | 24  | 21  | 20  | 17  | 11  | 16    | 292   | 896   | 538   |
| Full Simulation Period Average <sup>a</sup> | 1,495 | 1,093 | 448   | 162 | 73  | 45  | 67  | 204 | 752   | 1,893 | 2,931 | 2,397 |
| Wet Water Years (28%)                       | 383   | 277   | 137   | 31  | 27  | 24  | 20  | 23  | 101   | 688   | 1,531 | 928   |
| Above Normal Years (14%)                    | 736   | 436   | 142   | 51  | 36  | 32  | 28  | 35  | 257   | 1,359 | 2,593 | 1,779 |
| Below Normal Years (18%)                    | 1,485 | 878   | 337   | 73  | 42  | 37  | 35  | 115 | 715   | 2,121 | 3,379 | 2,632 |
| Dry Water Years (24%)                       | 2,044 | 1,359 | 625   | 105 | 46  | 42  | 48  | 191 | 1,011 | 2,521 | 3,702 | 3,284 |
| Critical Water Years (16%)                  | 3,466 | 3,107 | 1,183 | 673 | 262 | 109 | 249 | 788 | 1,978 | 3,271 | 4,017 | 3,916 |

**Table F.2.7-2-10b. San Joaquin River at Antioch Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct   | Nov   | Dec   | Jan   | Feb | Mar | Apr | May | Jun   | Jul   | Aug   | Sep   |
|---------------------------------------------|-------|-------|-------|-------|-----|-----|-----|-----|-------|-------|-------|-------|
| 10% Exceedance                              | 1,859 | 1,845 | 1,361 | 1,068 | 358 | 223 | 379 | 742 | 1,182 | 1,377 | 1,567 | 1,737 |
| 20% Exceedance                              | 1,751 | 1,694 | 1,191 | 807   | 191 | 113 | 201 | 246 | 475   | 808   | 1,208 | 1,685 |
| 30% Exceedance                              | 1,663 | 1,627 | 1,132 | 394   | 124 | 36  | 83  | 211 | 389   | 723   | 1,119 | 1,627 |
| 40% Exceedance                              | 1,549 | 1,450 | 980   | 229   | 46  | 28  | 37  | 157 | 346   | 631   | 1,045 | 1,548 |
| 50% Exceedance                              | 1,386 | 876   | 713   | 126   | 26  | 25  | 28  | 80  | 274   | 490   | 868   | 1,315 |
| 60% Exceedance                              | 280   | 793   | 363   | 58    | 24  | 23  | 24  | 49  | 242   | 318   | 586   | 373   |
| 70% Exceedance                              | 242   | 758   | 237   | 24    | 21  | 21  | 22  | 28  | 192   | 279   | 529   | 336   |
| 80% Exceedance                              | 223   | 593   | 160   | 21    | 20  | 20  | 20  | 20  | 109   | 250   | 486   | 316   |
| 90% Exceedance                              | 208   | 285   | 84    | 19    | 18  | 18  | 18  | 16  | 39    | 181   | 444   | 294   |
| Full Simulation Period Average <sup>a</sup> | 1,018 | 1,118 | 703   | 344   | 126 | 76  | 127 | 228 | 384   | 590   | 891   | 1,054 |
| Wet Water Years (28%)                       | 221   | 561   | 564   | 33    | 20  | 20  | 20  | 35  | 114   | 218   | 468   | 310   |
| Above Normal Years (14%)                    | 209   | 663   | 635   | 173   | 35  | 21  | 24  | 58  | 179   | 264   | 513   | 310   |
| Below Normal Years (18%)                    | 1,404 | 1,376 | 582   | 271   | 84  | 35  | 58  | 110 | 322   | 527   | 925   | 1,405 |
| Dry Water Years (24%)                       | 1,588 | 1,397 | 732   | 569   | 175 | 83  | 95  | 181 | 368   | 725   | 1,124 | 1,632 |
| Critical Water Years (16%)                  | 1,938 | 1,855 | 1,128 | 785   | 366 | 259 | 532 | 918 | 1,133 | 1,396 | 1,572 | 1,742 |

**Table F.2.7-2-10c. San Joaquin River at Antioch Chloride, NAA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct    | Nov    | Dec | Jan | Feb | Mar | Apr | May | Jun    | Jul    | Aug    | Sep    |
|---------------------------------------------|--------|--------|-----|-----|-----|-----|-----|-----|--------|--------|--------|--------|
| 10% Exceedance                              | -1,467 | -1,479 | 48  | 841 | 290 | 161 | 280 | 144 | -844   | -2,082 | -2,685 | -2,217 |
| 20% Exceedance                              | -1,141 | -254   | 567 | 691 | 137 | 67  | 148 | -18 | -1,007 | -2,331 | -2,915 | -2,024 |
| 30% Exceedance                              | -529   | 487    | 692 | 309 | 78  | -5  | 40  | 87  | -629   | -2,046 | -2,710 | -1,827 |
| 40% Exceedance                              | 67     | 723    | 736 | 165 | 3   | -10 | 1   | 77  | -350   | -1,678 | -2,574 | -1,599 |
| 50% Exceedance                              | 314    | 312    | 596 | 77  | -11 | -10 | -4  | 43  | -173   | -1,417 | -2,554 | -1,470 |
| 60% Exceedance                              | -376   | 432    | 285 | 22  | -11 | -10 | -5  | 21  | 18     | -1,144 | -2,421 | -1,692 |
| 70% Exceedance                              | -151   | 491    | 186 | -9  | -9  | -8  | -6  | 2   | 97     | -707   | -1,917 | -1,036 |
| 80% Exceedance                              | -84    | 447    | 122 | -6  | -6  | -7  | -2  | -2  | 80     | -297   | -969   | -582   |
| 90% Exceedance                              | -9     | 201    | 56  | -6  | -3  | -1  | 2   | 5   | 23     | -112   | -452   | -244   |
| Full Simulation Period Average <sup>a</sup> | -478   | 24     | 255 | 183 | 53  | 31  | 60  | 24  | -368   | -1,303 | -2,041 | -1,344 |
| Wet Water Years (28%)                       | -162   | 284    | 426 | 2   | -7  | -4  | 0   | 12  | 13     | -470   | -1,063 | -617   |
| Above Normal Years (14%)                    | -527   | 227    | 493 | 122 | -2  | -11 | -4  | 23  | -78    | -1,095 | -2,080 | -1,469 |
| Below Normal Years (18%)                    | -81    | 498    | 245 | 198 | 42  | -2  | 23  | -5  | -393   | -1,595 | -2,454 | -1,227 |
| Dry Water Years (24%)                       | -456   | 38     | 107 | 463 | 129 | 41  | 47  | -10 | -643   | -1,795 | -2,579 | -1,653 |
| Critical Water Years (16%)                  | -1,528 | -1,252 | -54 | 113 | 104 | 150 | 282 | 130 | -845   | -1,875 | -2,444 | -2,174 |

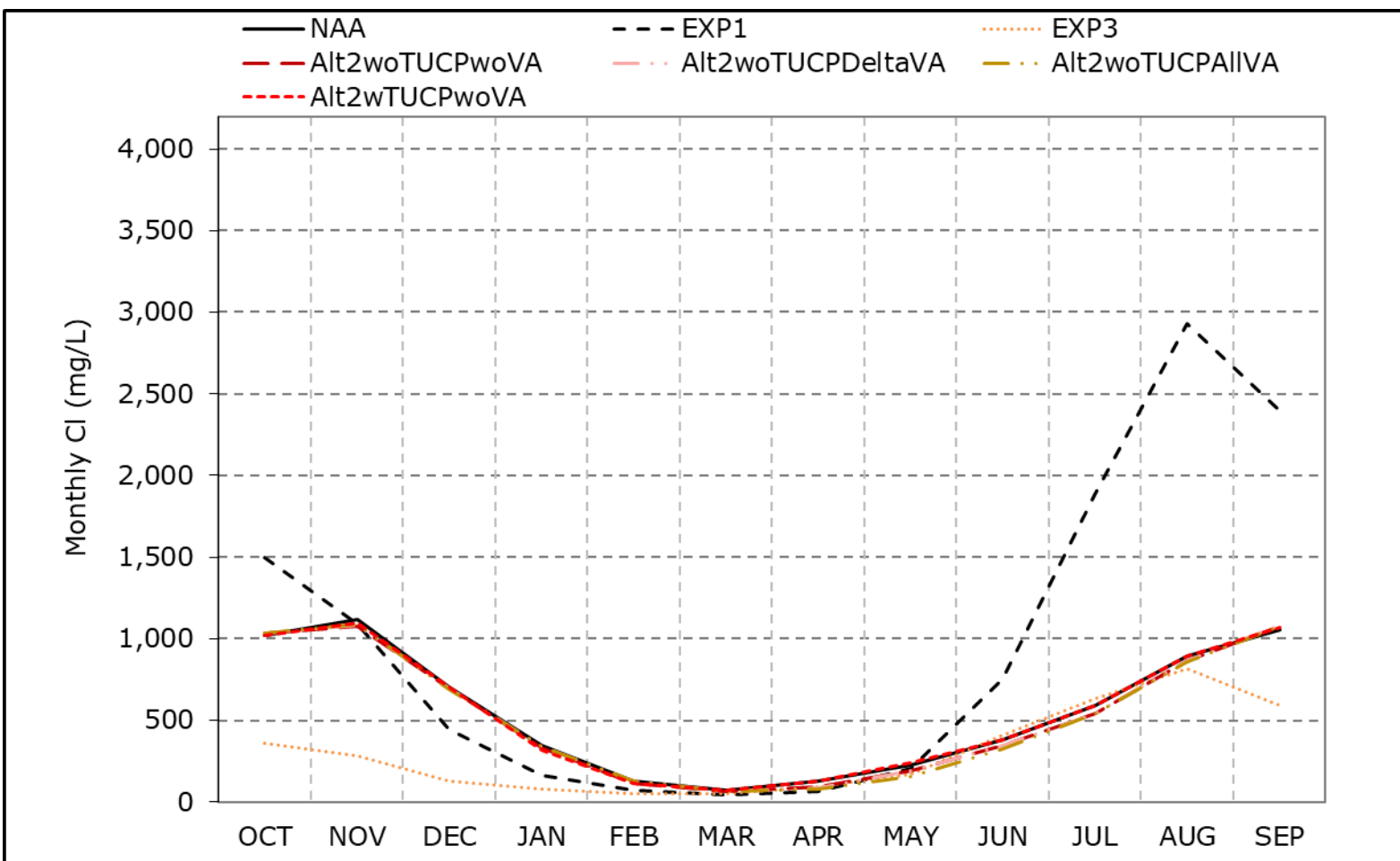
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.7-2-1. San Joaquin River at Antioch Chloride, Long-Term Average Cl**



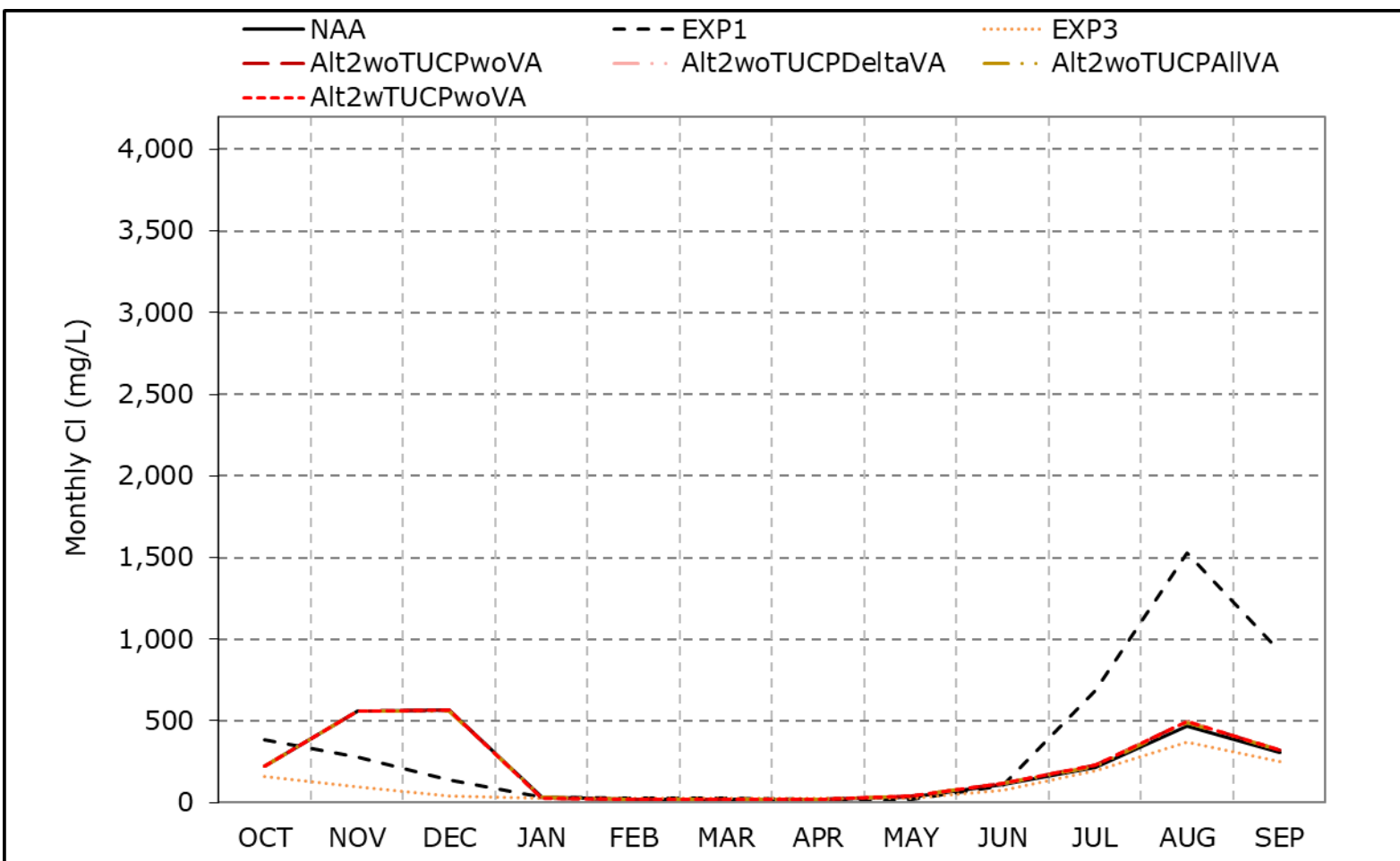
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.7-2-2. San Joaquin River at Antioch Chloride, Wet Year Average Cl**

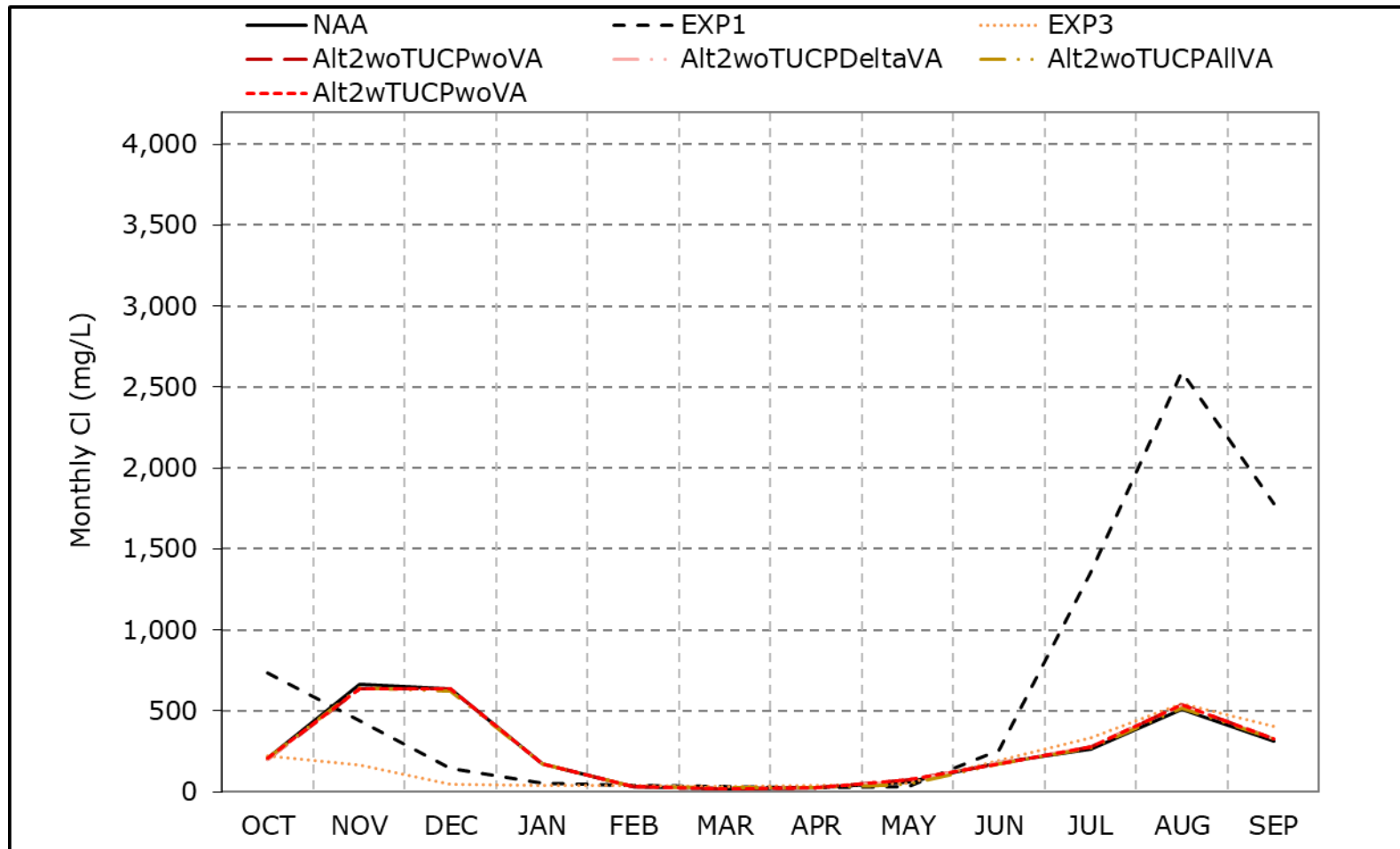


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-3. San Joaquin River at Antioch Chloride, Above Normal Year Average CI**

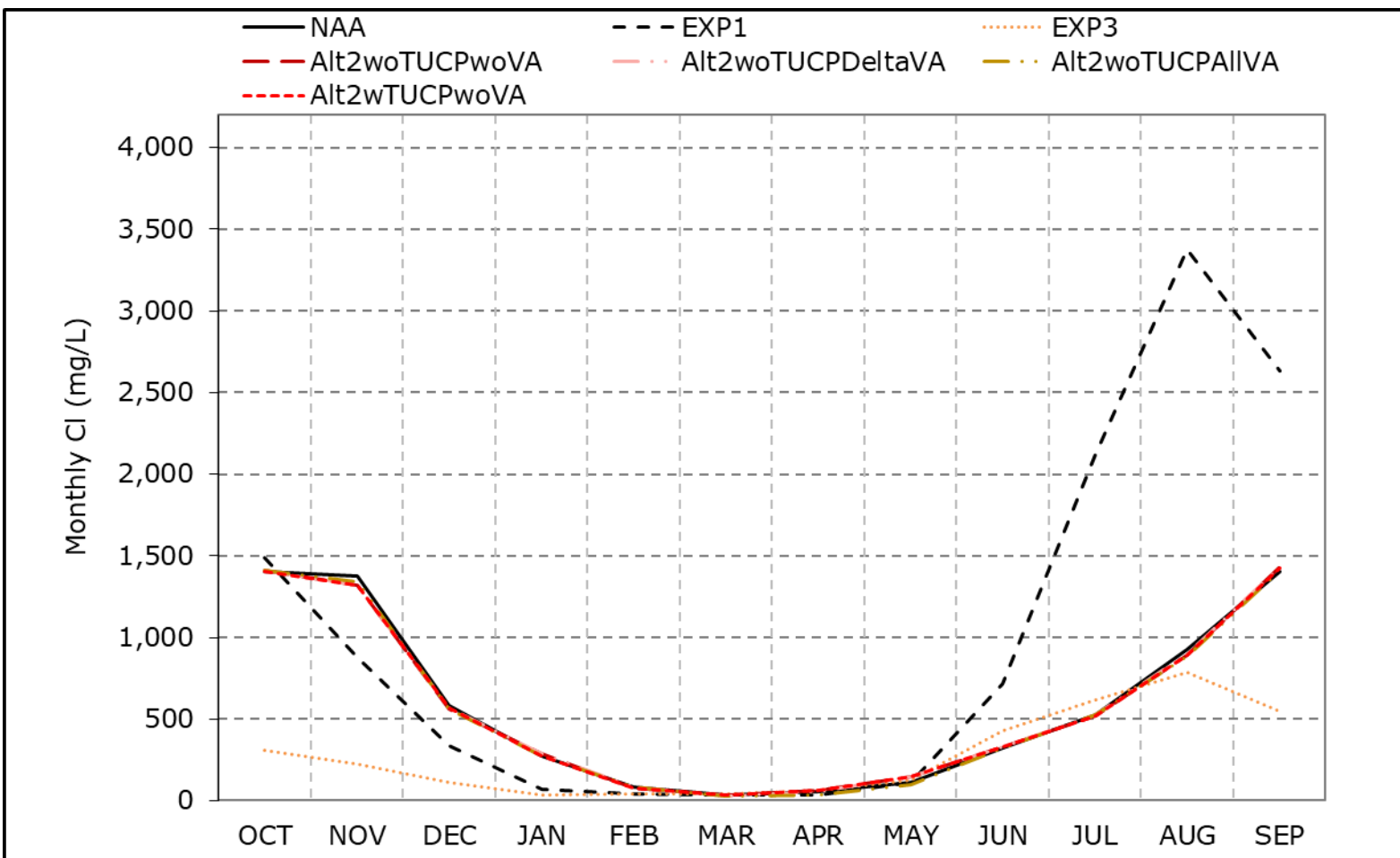


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-4. San Joaquin River at Antioch Chloride, Below Normal Year Average CI**

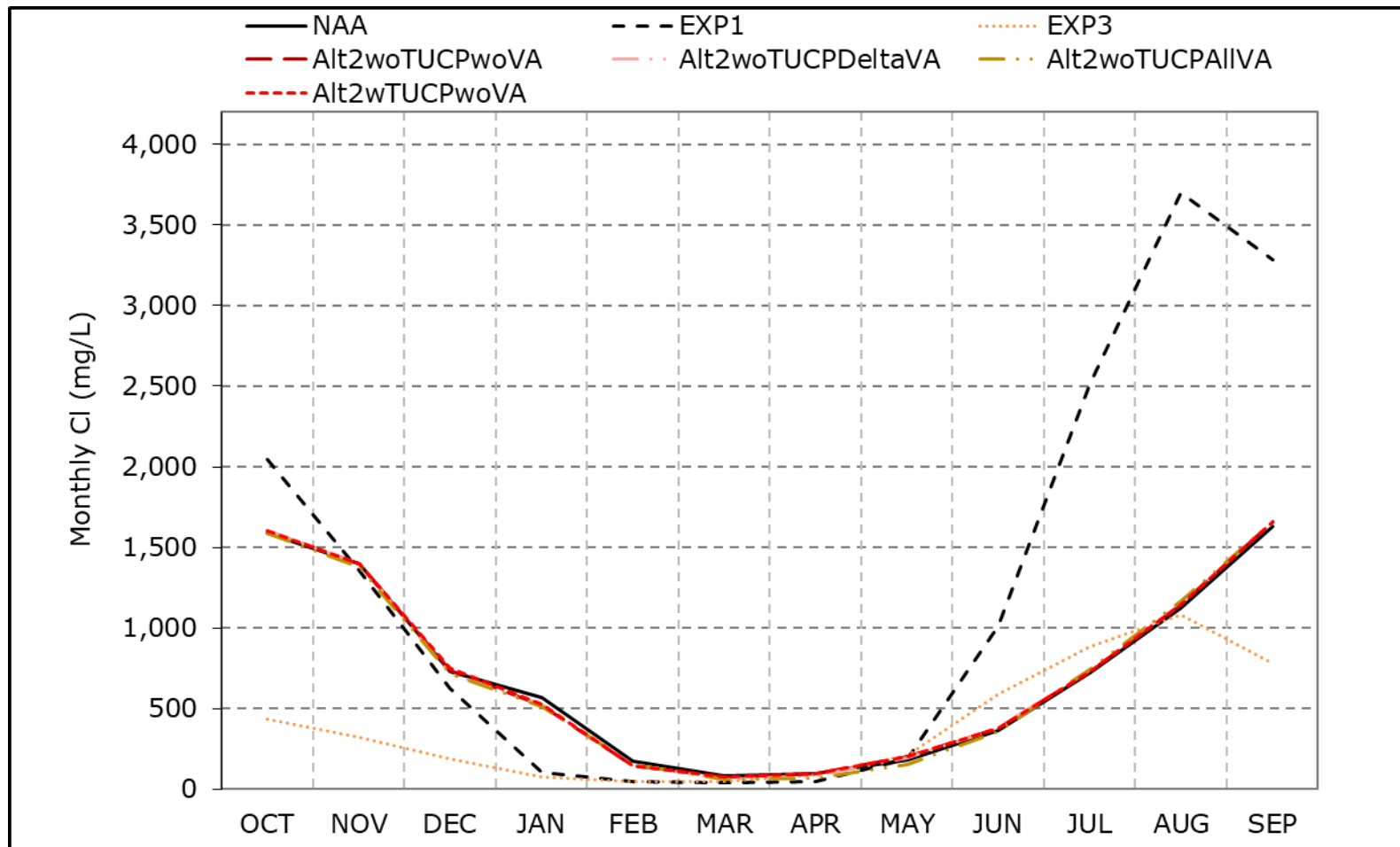


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-5. San Joaquin River at Antioch Chloride, Dry Year Average CI**

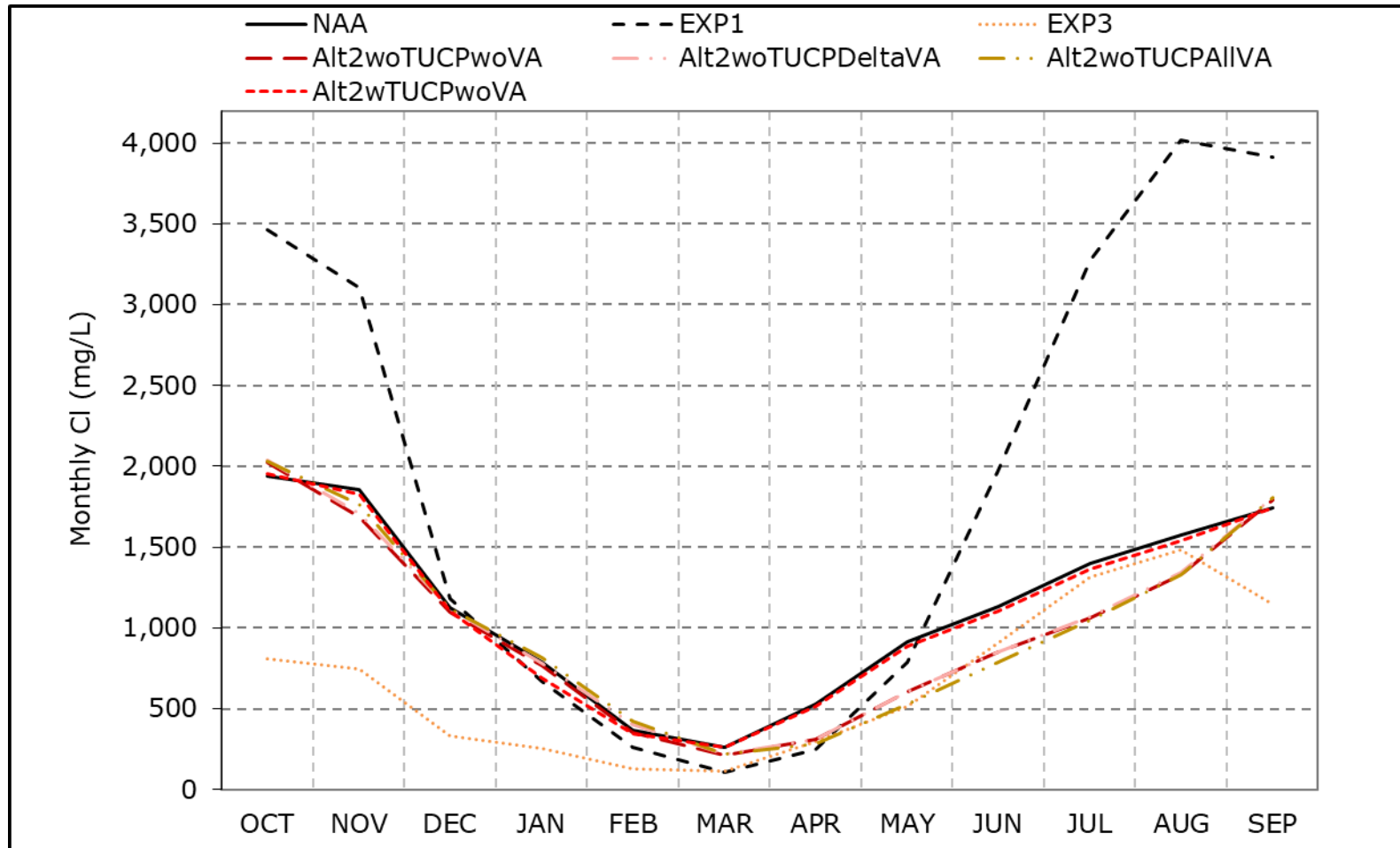


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-6. San Joaquin River at Antioch Chloride, Critical Year Average Cl**

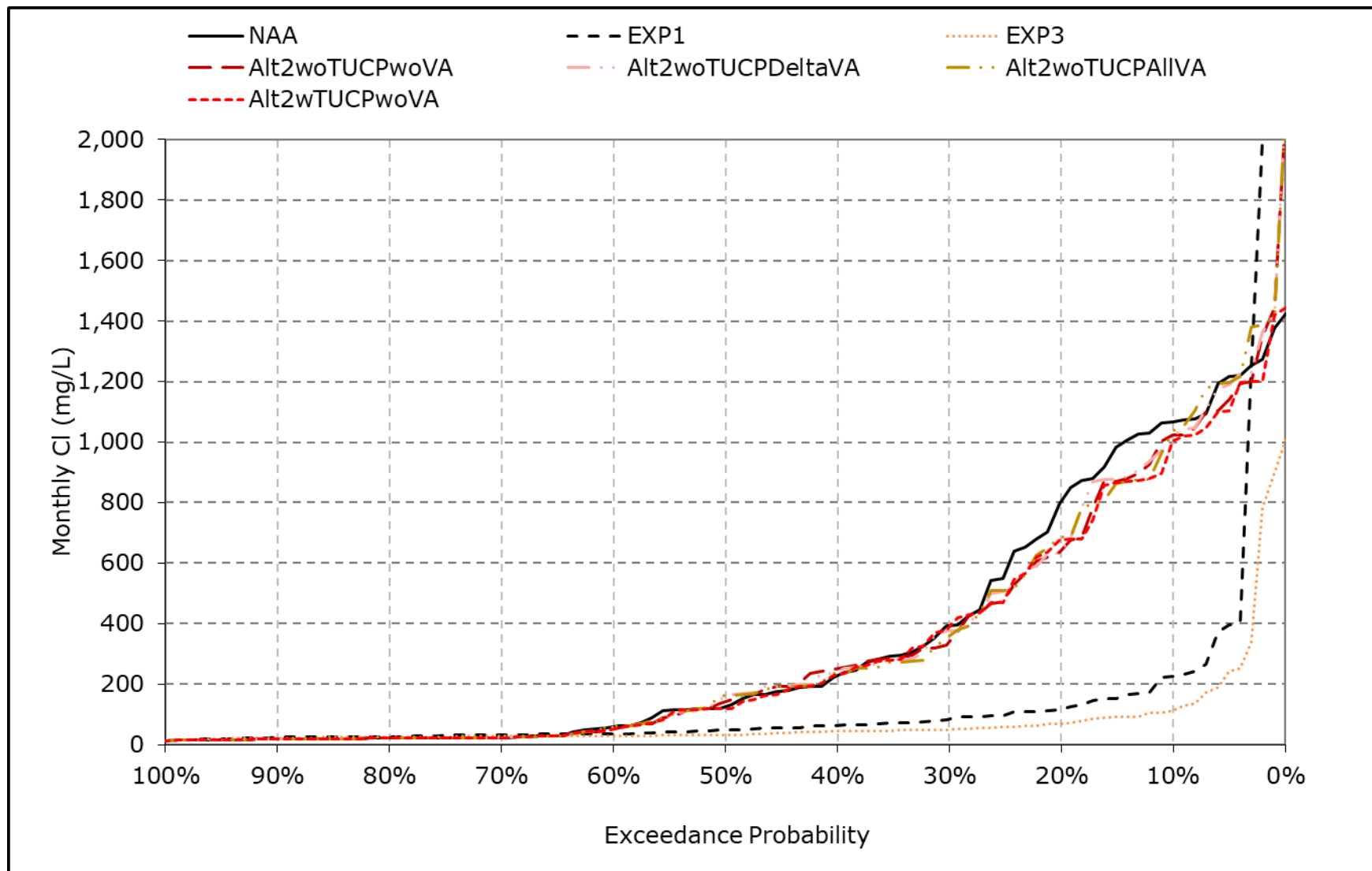


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

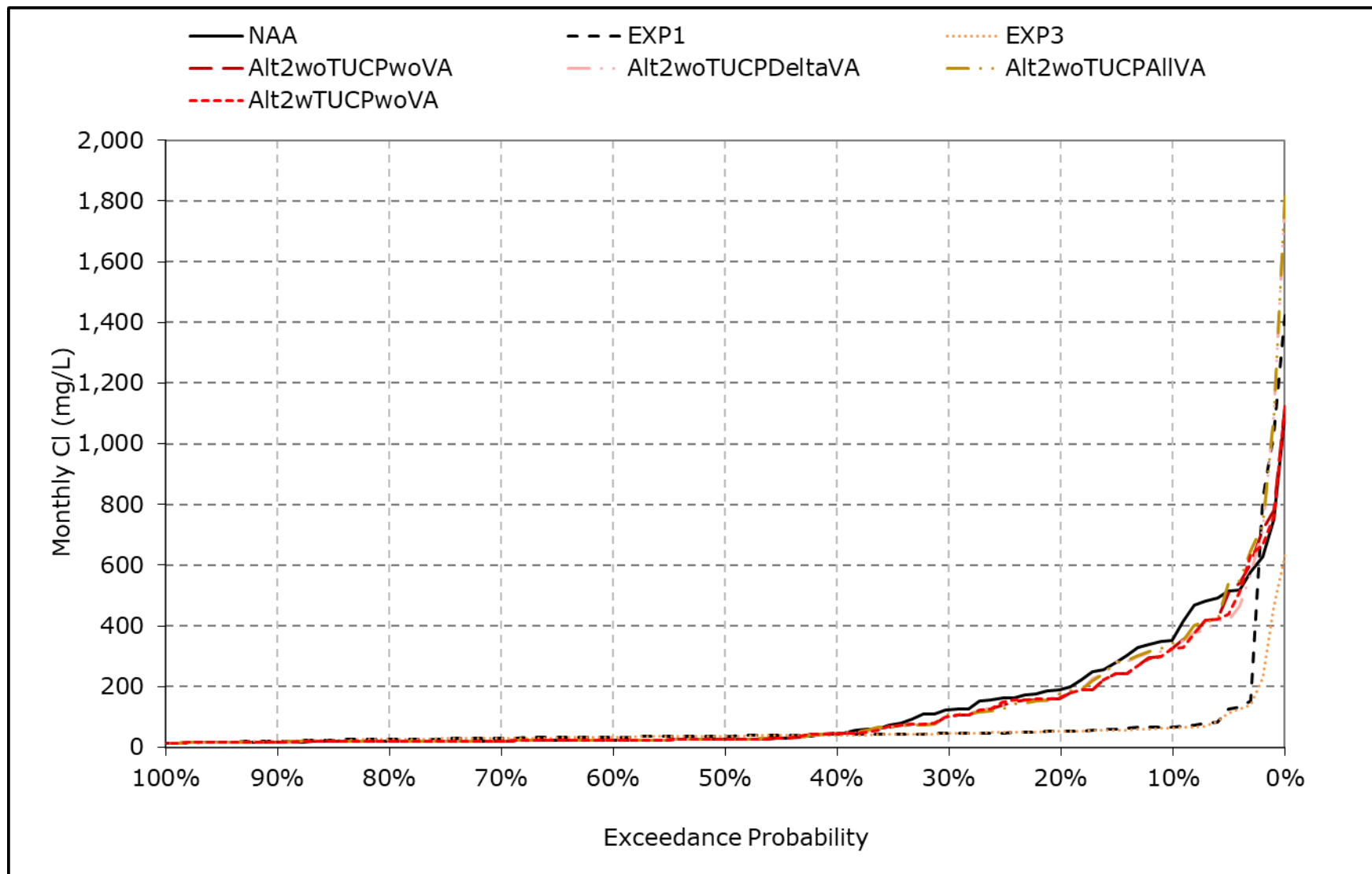
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-7. San Joaquin River at Antioch Chloride, January Cl**



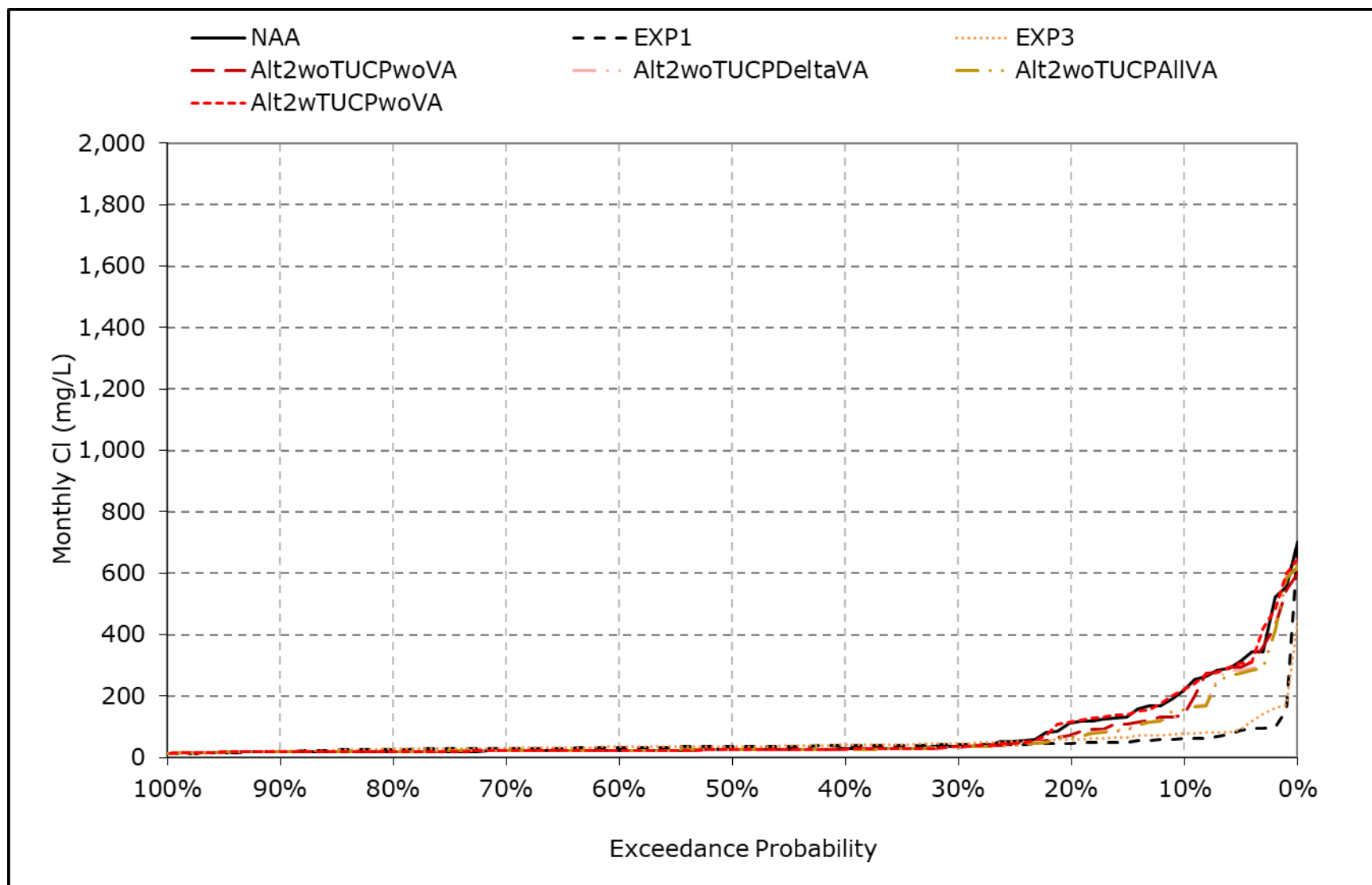
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-8. San Joaquin River at Antioch Chloride, February CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

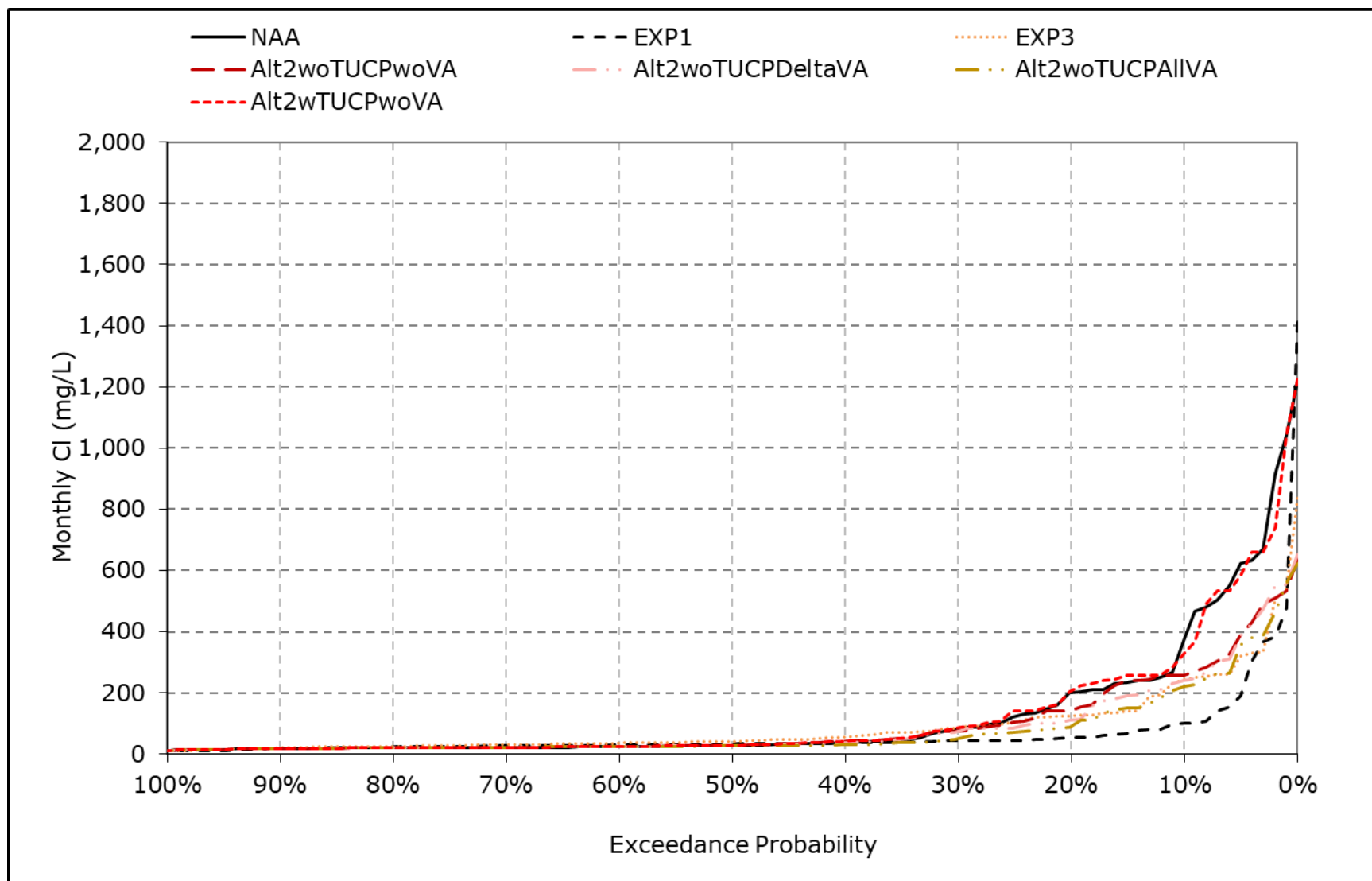
**Figure F.2.7-2-9. San Joaquin River at Antioch Chloride, March CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

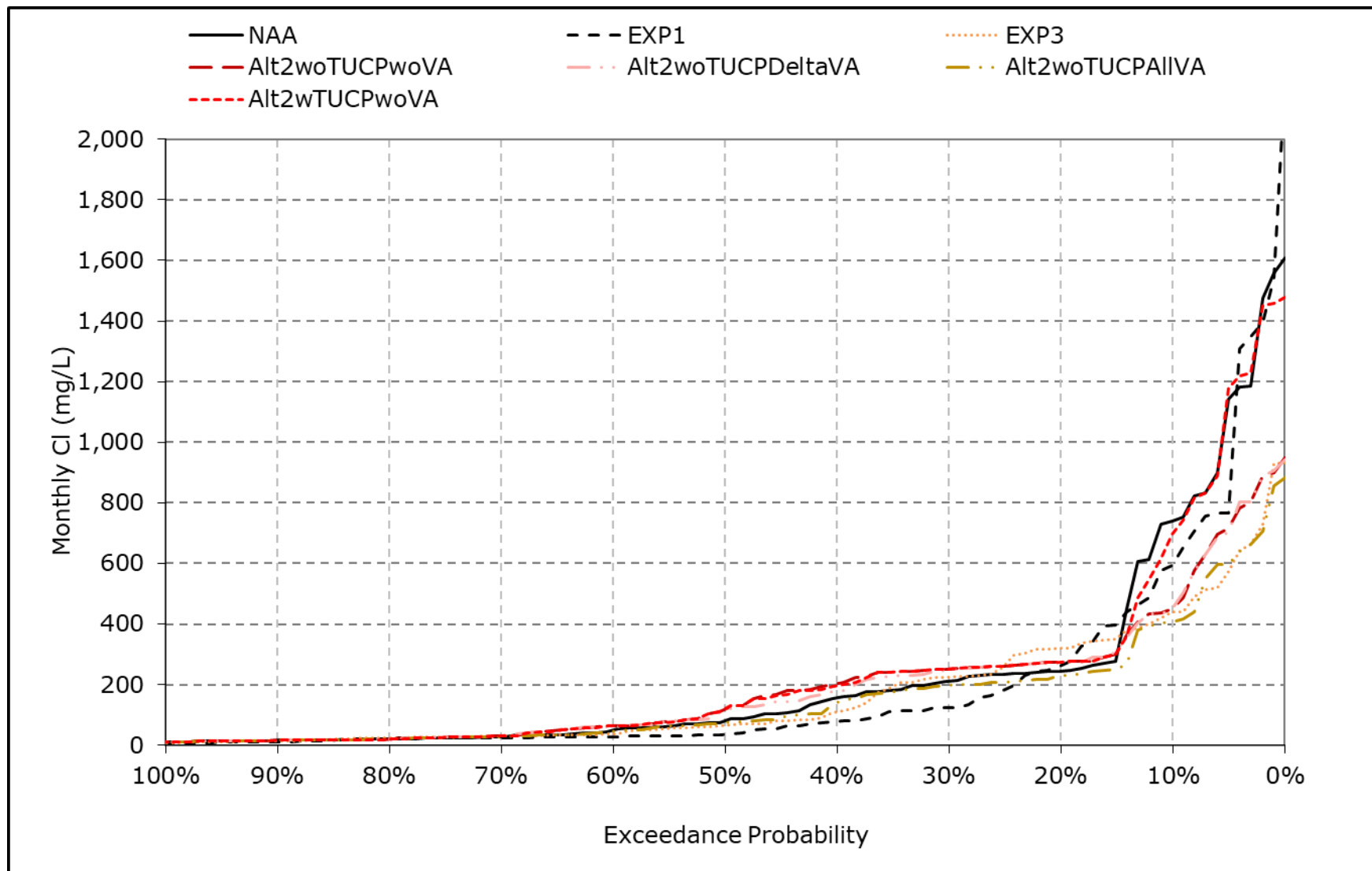


**Figure F.2.7-2-10. San Joaquin River at Antioch Chloride, April CI**



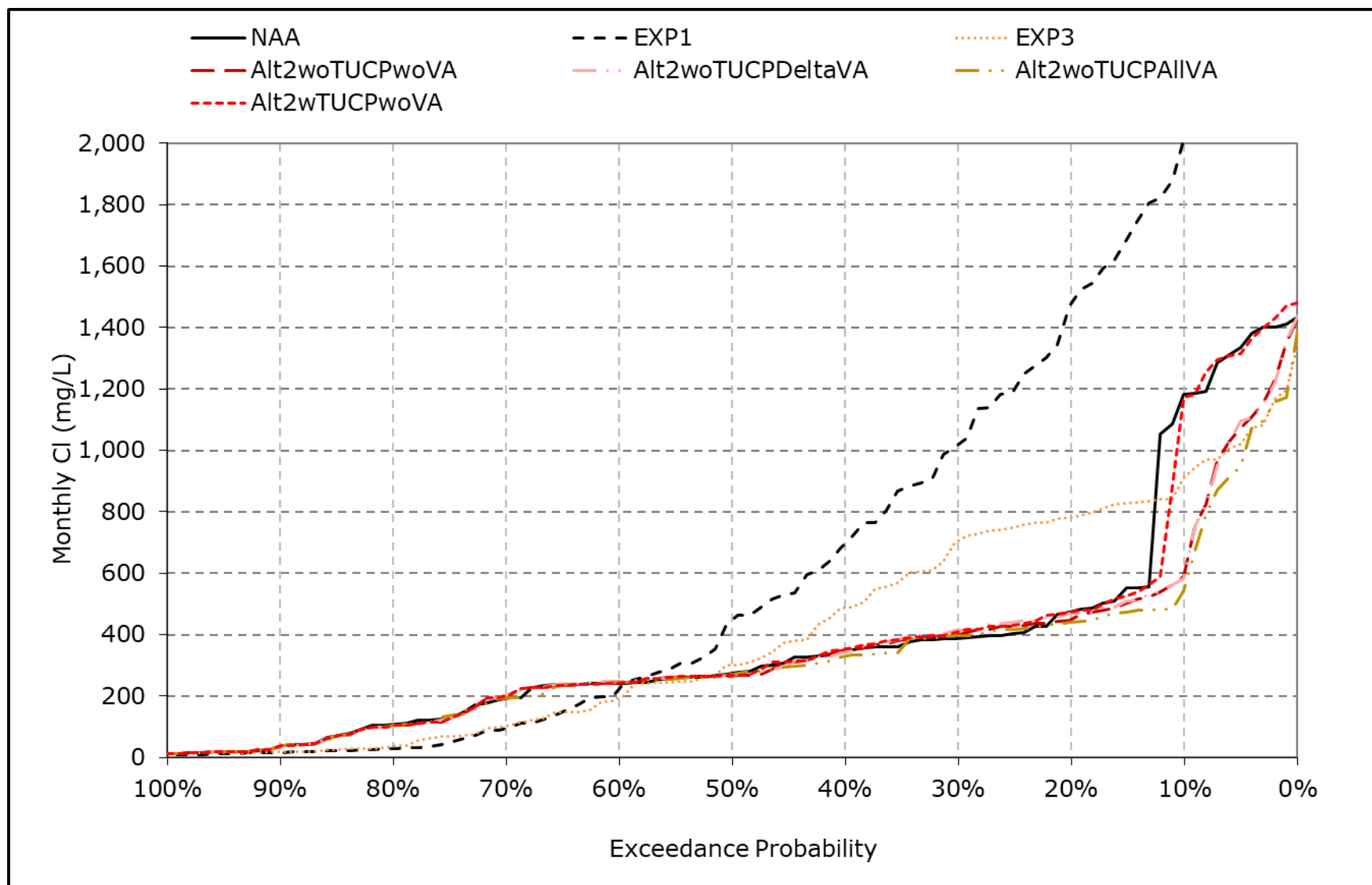
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-11. San Joaquin River at Antioch Chloride, May Cl**



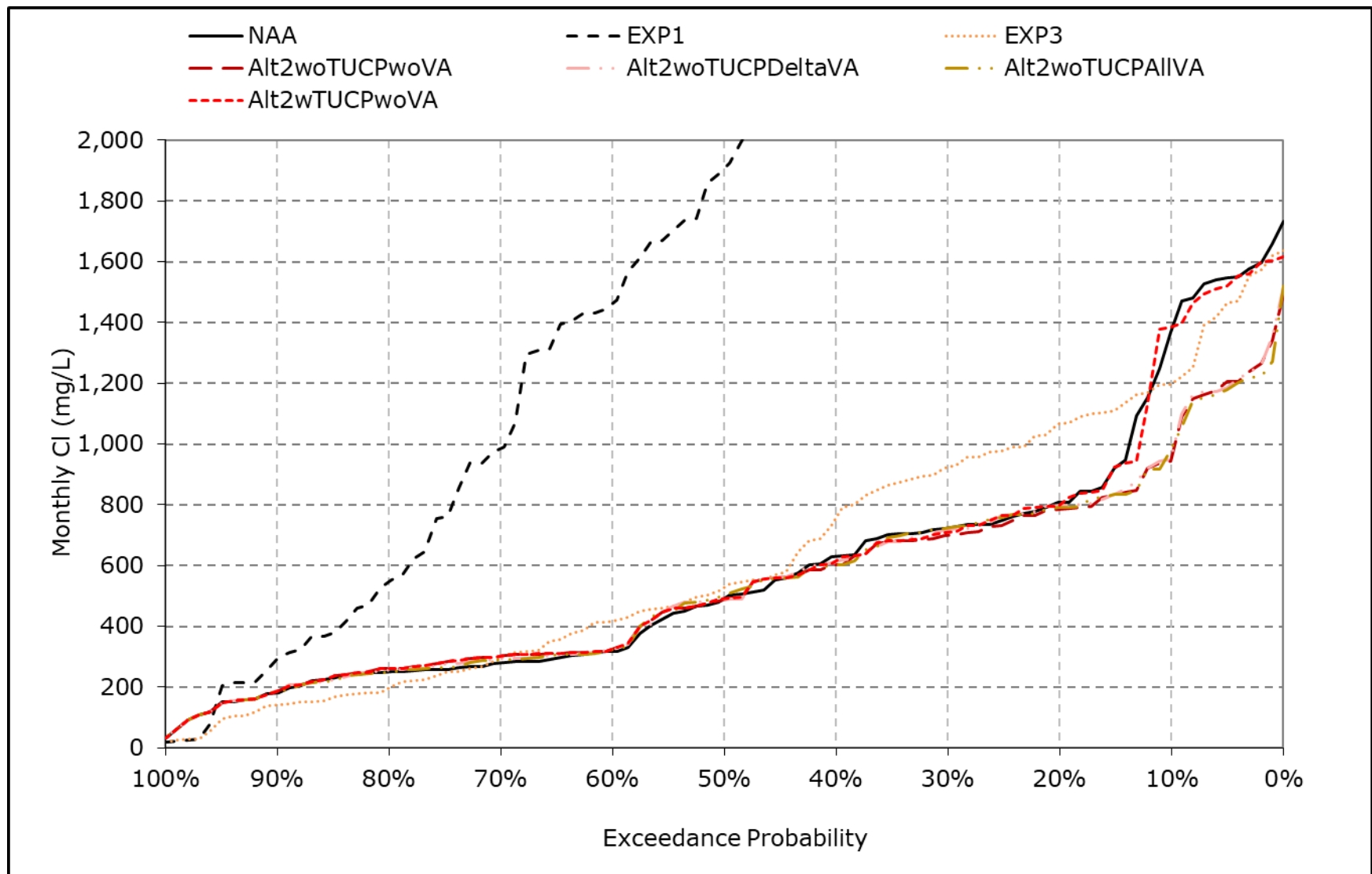
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-12. San Joaquin River at Antioch Chloride, June Cl**



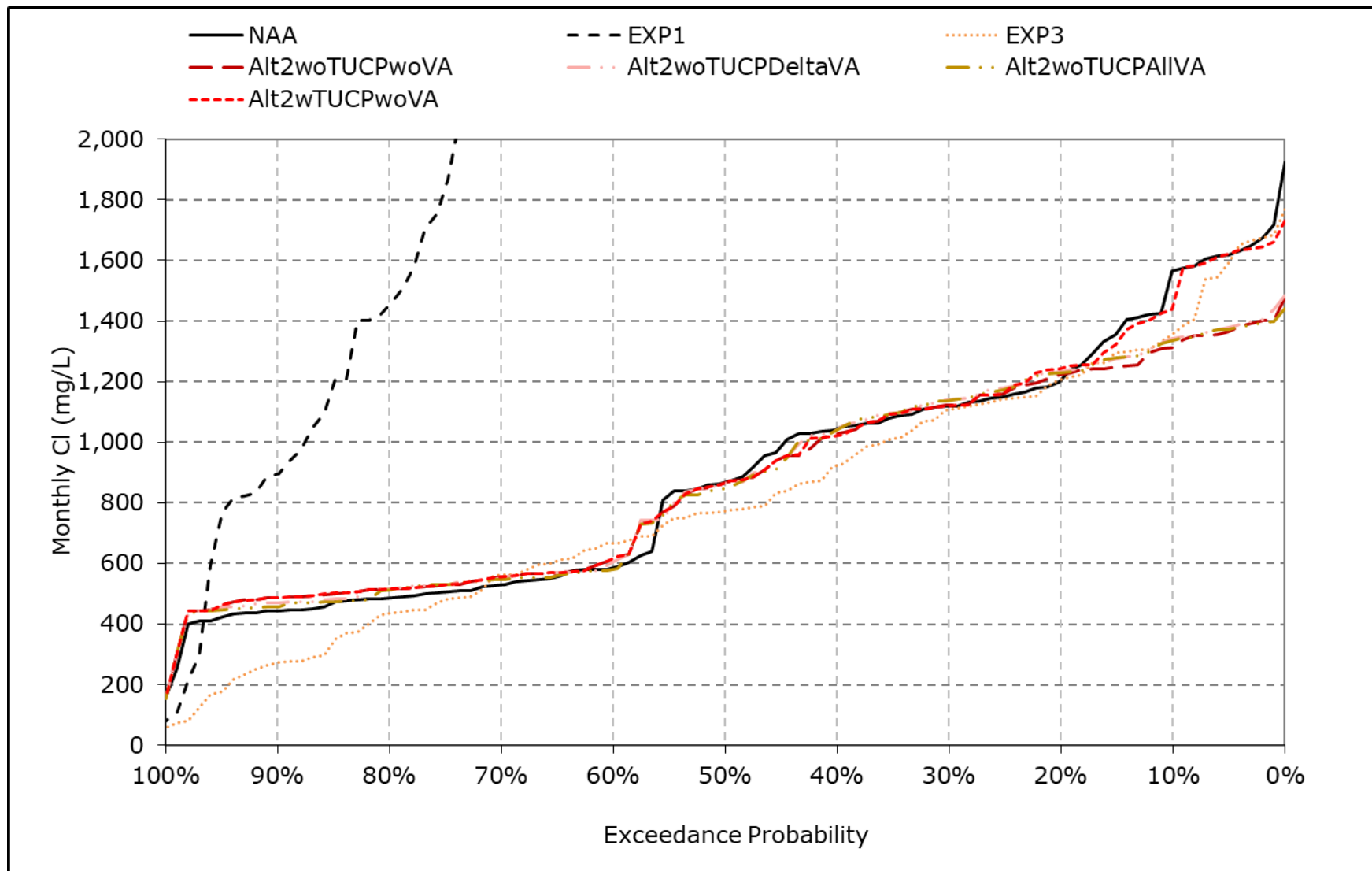
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-13. San Joaquin River at Antioch Chloride, July Cl**



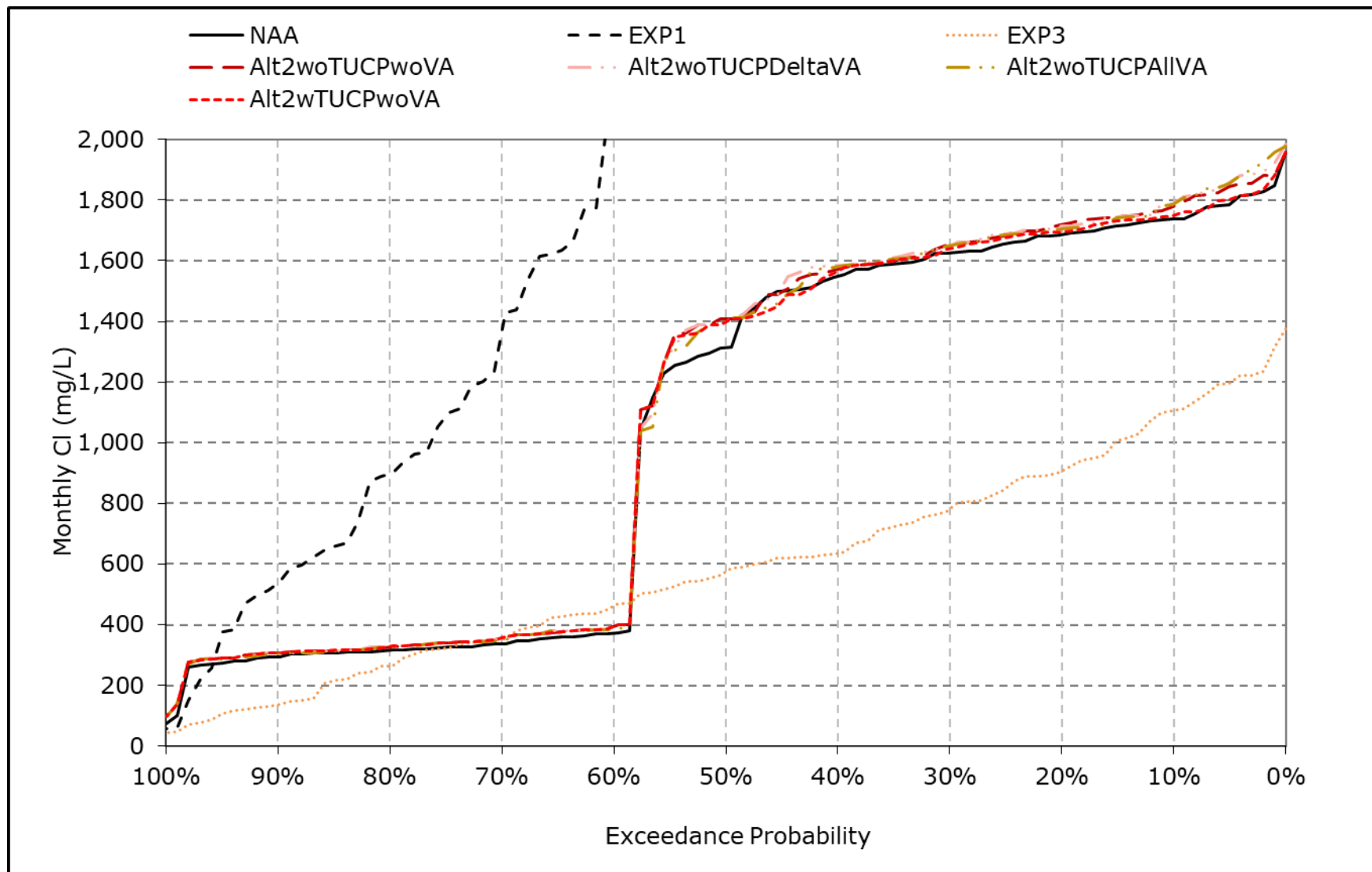
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-14. San Joaquin River at Antioch Chloride, August Cl**



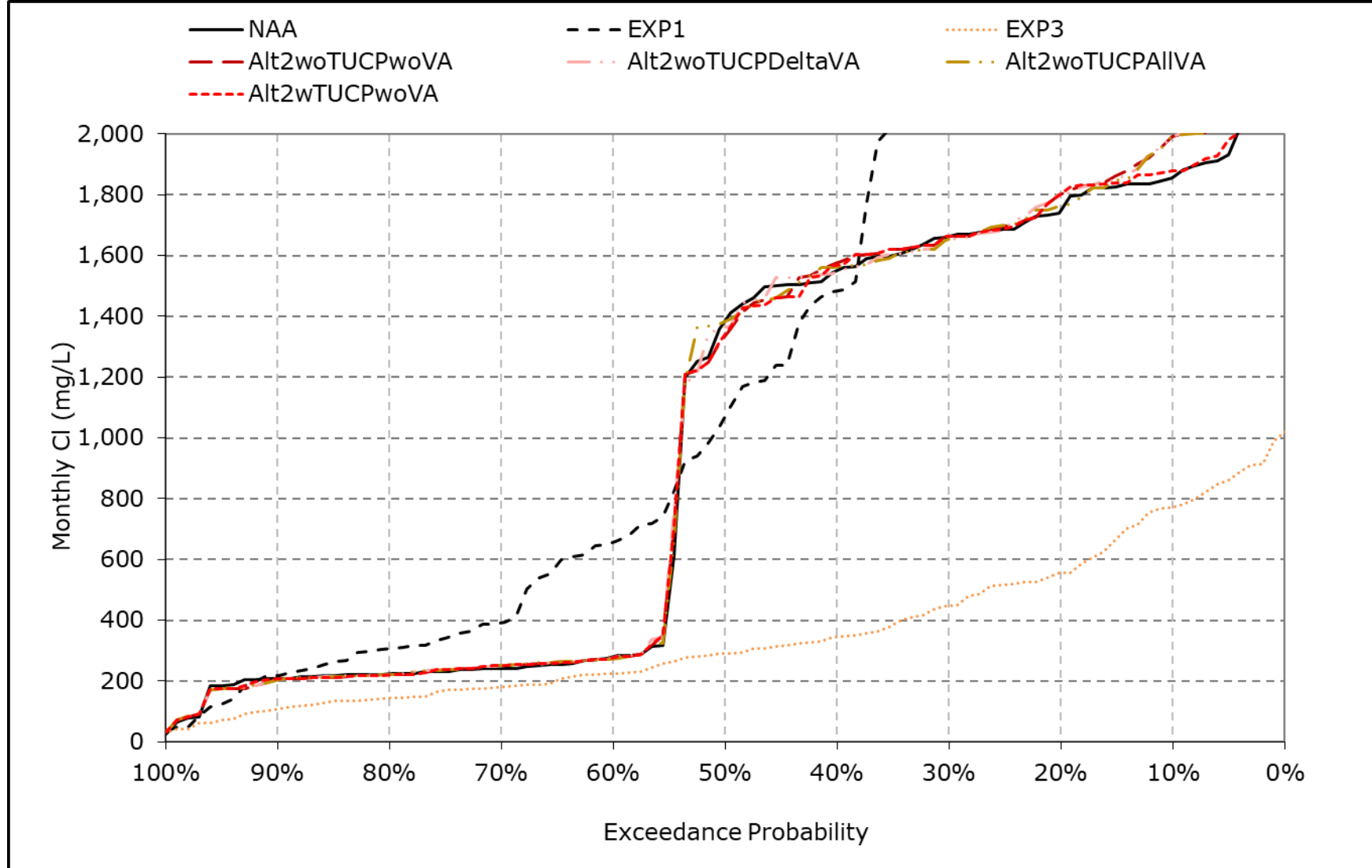
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-15. San Joaquin River at Antioch Chloride, September CI**



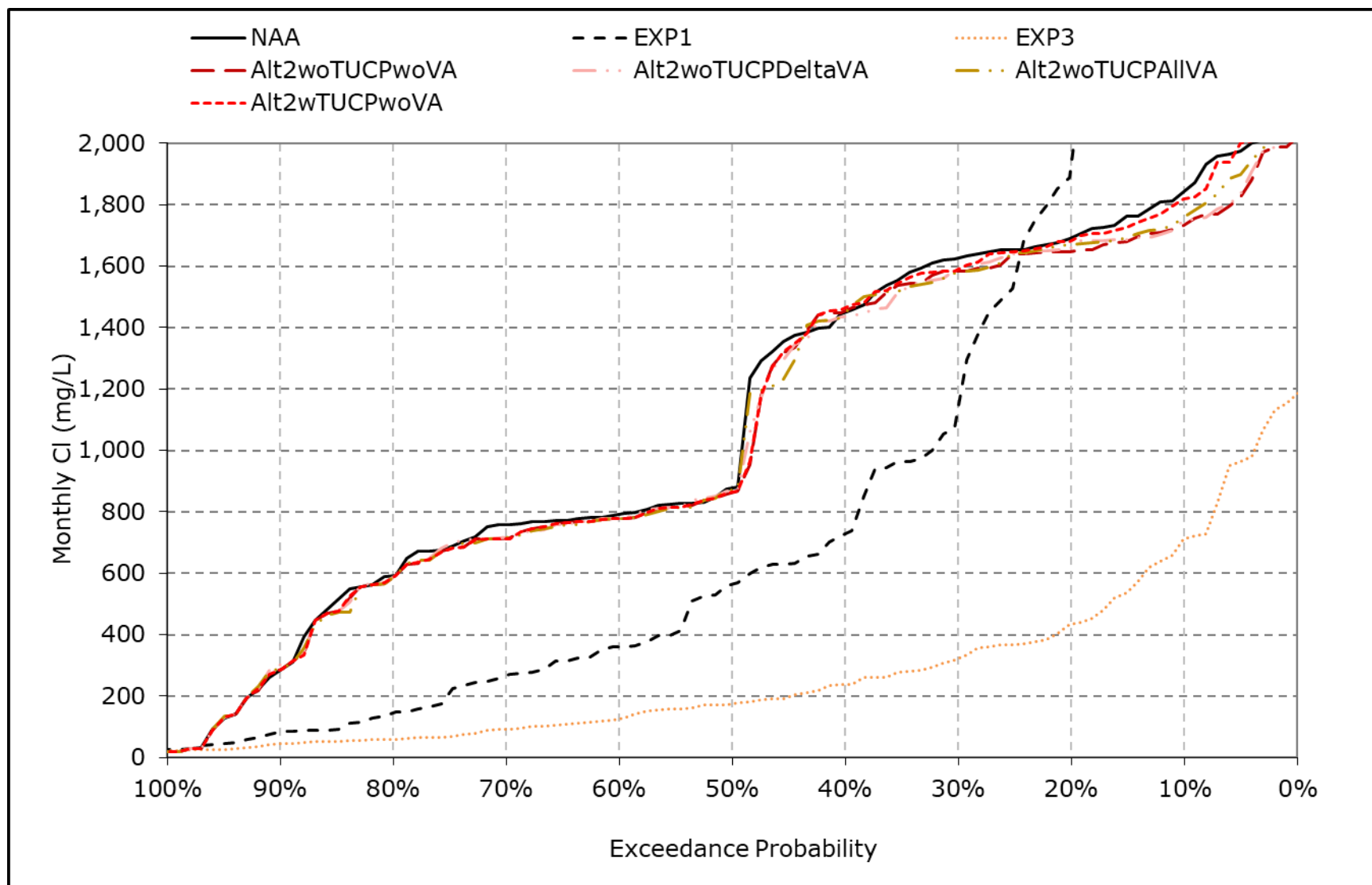
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-2-16. San Joaquin River at Antioch Chloride, October Cl**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

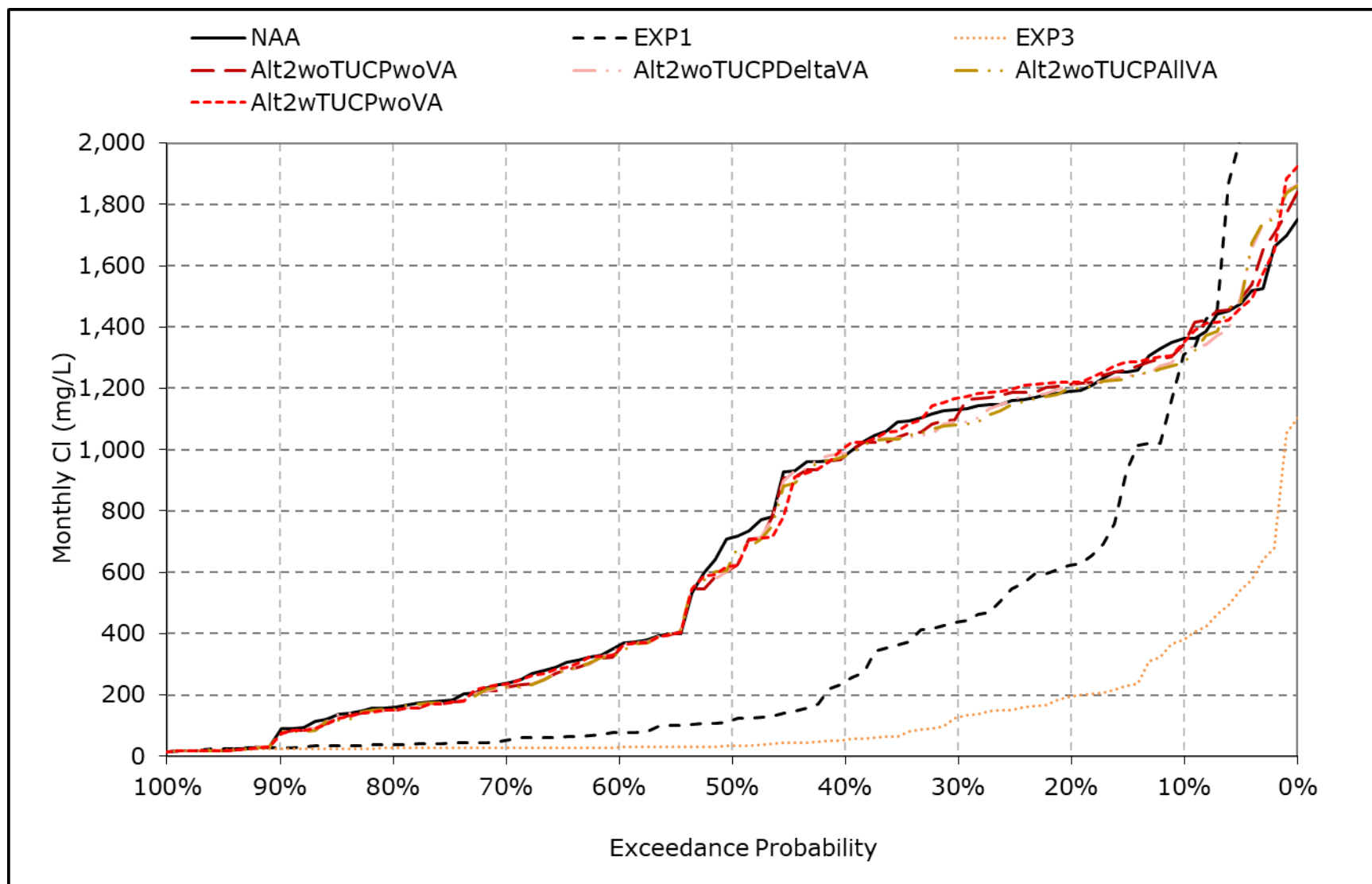
**Figure F.2.7-2-17. San Joaquin River at Antioch Chloride, November CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.7-2-18. San Joaquin River at Antioch Chloride, December CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.7-3-1a. Banks Pumping Plant South Delta Exports Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 120 | 144 | 167 | 182 | 146 | 98  | 94  | 88  | 80  | 91  | 106 | 114 |
| 20% Exceedance                              | 110 | 124 | 159 | 156 | 127 | 87  | 79  | 82  | 54  | 45  | 65  | 94  |
| 30% Exceedance                              | 108 | 118 | 149 | 142 | 97  | 79  | 74  | 76  | 49  | 39  | 54  | 84  |
| 40% Exceedance                              | 101 | 110 | 139 | 129 | 89  | 73  | 69  | 69  | 47  | 36  | 48  | 78  |
| 50% Exceedance                              | 93  | 99  | 129 | 112 | 81  | 68  | 67  | 66  | 46  | 34  | 39  | 65  |
| 60% Exceedance                              | 34  | 40  | 112 | 80  | 65  | 63  | 63  | 62  | 43  | 31  | 33  | 45  |
| 70% Exceedance                              | 30  | 34  | 96  | 66  | 55  | 58  | 57  | 55  | 40  | 29  | 29  | 35  |
| 80% Exceedance                              | 28  | 31  | 79  | 55  | 39  | 50  | 43  | 45  | 34  | 28  | 28  | 34  |
| 90% Exceedance                              | 27  | 30  | 49  | 34  | 26  | 28  | 18  | 14  | 20  | 26  | 27  | 32  |
| Full Simulation Period Average <sup>a</sup> | 74  | 82  | 117 | 106 | 83  | 68  | 63  | 61  | 48  | 43  | 51  | 66  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 63  | 48  | 42  | 34  | 30  | 28  | 29  | 29  | 34  |
| Above Normal Years (14%)                    | 31  | 33  | 104 | 106 | 76  | 66  | 66  | 65  | 43  | 28  | 28  | 36  |
| Below Normal Years (18%)                    | 102 | 104 | 123 | 114 | 82  | 71  | 69  | 65  | 45  | 34  | 46  | 82  |
| Dry Water Years (24%)                       | 103 | 113 | 126 | 130 | 102 | 77  | 71  | 71  | 48  | 39  | 57  | 77  |
| Critical Water Years (16%)                  | 122 | 146 | 170 | 140 | 123 | 100 | 94  | 94  | 93  | 97  | 105 | 115 |

**Table F.2.7-3-1b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 113 | 143 | 163 | 179 | 147 | 101 | 88  | 79  | 72  | 70  | 80  | 96  |
| 20% Exceedance                              | 109 | 127 | 156 | 163 | 124 | 89  | 80  | 71  | 53  | 45  | 63  | 88  |
| 30% Exceedance                              | 106 | 118 | 144 | 147 | 98  | 79  | 74  | 66  | 47  | 41  | 54  | 84  |
| 40% Exceedance                              | 103 | 107 | 134 | 127 | 88  | 73  | 68  | 63  | 45  | 36  | 50  | 77  |
| 50% Exceedance                              | 95  | 91  | 125 | 112 | 83  | 69  | 67  | 59  | 43  | 34  | 42  | 68  |
| 60% Exceedance                              | 36  | 40  | 111 | 80  | 68  | 64  | 61  | 55  | 39  | 31  | 34  | 50  |
| 70% Exceedance                              | 30  | 33  | 93  | 66  | 57  | 59  | 52  | 44  | 36  | 29  | 30  | 40  |
| 80% Exceedance                              | 29  | 31  | 79  | 55  | 40  | 49  | 44  | 36  | 30  | 28  | 29  | 37  |
| 90% Exceedance                              | 28  | 30  | 48  | 34  | 25  | 29  | 22  | 14  | 19  | 27  | 28  | 34  |
| Full Simulation Period Average <sup>a</sup> | 73  | 82  | 115 | 107 | 84  | 69  | 63  | 54  | 44  | 41  | 48  | 64  |
| Wet Water Years (28%)                       | 29  | 33  | 84  | 61  | 47  | 41  | 34  | 26  | 26  | 29  | 30  | 36  |
| Above Normal Years (14%)                    | 32  | 32  | 102 | 105 | 76  | 65  | 62  | 52  | 39  | 28  | 29  | 40  |
| Below Normal Years (18%)                    | 102 | 103 | 120 | 115 | 84  | 72  | 68  | 57  | 42  | 34  | 48  | 80  |
| Dry Water Years (24%)                       | 105 | 115 | 126 | 132 | 102 | 78  | 71  | 65  | 46  | 41  | 59  | 80  |
| Critical Water Years (16%)                  | 110 | 142 | 158 | 144 | 125 | 105 | 95  | 85  | 78  | 79  | 81  | 91  |

**Table F.2.7-3-1c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA minus NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -7  | -1  | -4  | -3  | 0   | 3   | -6  | -9  | -8  | -20 | -26 | -18 |
| 20% Exceedance                              | -1  | 3   | -3  | 7   | -3  | 2   | 1   | -11 | -1  | 0   | -3  | -6  |
| 30% Exceedance                              | -2  | 0   | -4  | 4   | 1   | 0   | -1  | -9  | -2  | 2   | 0   | 0   |
| 40% Exceedance                              | 2   | -3  | -4  | -2  | -1  | 1   | 0   | -6  | -2  | 0   | 2   | -1  |
| 50% Exceedance                              | 2   | -8  | -4  | 1   | 2   | 1   | -1  | -7  | -3  | 0   | 3   | 3   |
| 60% Exceedance                              | 2   | -1  | -1  | 0   | 3   | 1   | -2  | -7  | -5  | 0   | 1   | 5   |
| 70% Exceedance                              | 0   | 0   | -3  | 1   | 2   | 1   | -6  | -10 | -4  | 0   | 1   | 5   |
| 80% Exceedance                              | 0   | 0   | 0   | 1   | 1   | 0   | 2   | -9  | -4  | 0   | 1   | 3   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | -1  | 1   | 3   | 0   | -1  | 0   | 1   | 2   |
| Full Simulation Period Average <sup>a</sup> | -1  | 0   | -3  | 1   | 1   | 1   | -1  | -7  | -5  | -2  | -3  | -2  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -2  | 0   | -1  | 0   | -4  | -2  | 0   | 1   | 2   |
| Above Normal Years (14%)                    | 1   | 0   | -2  | -1  | 0   | -1  | -4  | -13 | -4  | -1  | 1   | 4   |
| Below Normal Years (18%)                    | 1   | -1  | -2  | 2   | 2   | 0   | -1  | -8  | -3  | 0   | 2   | -2  |
| Dry Water Years (24%)                       | 2   | 2   | 1   | 2   | 0   | 2   | 0   | -6  | -2  | 1   | 2   | 4   |
| Critical Water Years (16%)                  | -12 | -4  | -12 | 4   | 2   | 4   | 1   | -9  | -15 | -18 | -25 | -24 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-3-2a. Banks Pumping Plant South Delta Exports Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 120 | 144 | 167 | 182 | 146 | 98  | 94  | 88  | 80  | 91  | 106 | 114 |
| 20% Exceedance                              | 110 | 124 | 159 | 156 | 127 | 87  | 79  | 82  | 54  | 45  | 65  | 94  |
| 30% Exceedance                              | 108 | 118 | 149 | 142 | 97  | 79  | 74  | 76  | 49  | 39  | 54  | 84  |
| 40% Exceedance                              | 101 | 110 | 139 | 129 | 89  | 73  | 69  | 69  | 47  | 36  | 48  | 78  |
| 50% Exceedance                              | 93  | 99  | 129 | 112 | 81  | 68  | 67  | 66  | 46  | 34  | 39  | 65  |
| 60% Exceedance                              | 34  | 40  | 112 | 80  | 65  | 63  | 63  | 62  | 43  | 31  | 33  | 45  |
| 70% Exceedance                              | 30  | 34  | 96  | 66  | 55  | 58  | 57  | 55  | 40  | 29  | 29  | 35  |
| 80% Exceedance                              | 28  | 31  | 79  | 55  | 39  | 50  | 43  | 45  | 34  | 28  | 28  | 34  |
| 90% Exceedance                              | 27  | 30  | 49  | 34  | 26  | 28  | 18  | 14  | 20  | 26  | 27  | 32  |
| Full Simulation Period Average <sup>a</sup> | 74  | 82  | 117 | 106 | 83  | 68  | 63  | 61  | 48  | 43  | 51  | 66  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 63  | 48  | 42  | 34  | 30  | 28  | 29  | 29  | 34  |
| Above Normal Years (14%)                    | 31  | 33  | 104 | 106 | 76  | 66  | 66  | 65  | 43  | 28  | 28  | 36  |
| Below Normal Years (18%)                    | 102 | 104 | 123 | 114 | 82  | 71  | 69  | 65  | 45  | 34  | 46  | 82  |
| Dry Water Years (24%)                       | 103 | 113 | 126 | 130 | 102 | 77  | 71  | 71  | 48  | 39  | 57  | 77  |
| Critical Water Years (16%)                  | 122 | 146 | 170 | 140 | 123 | 100 | 94  | 94  | 93  | 97  | 105 | 115 |

**Table F.2.7-3-2b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 115 | 144 | 163 | 177 | 149 | 113 | 112 | 90  | 72  | 63  | 83  | 97  |
| 20% Exceedance                              | 110 | 128 | 157 | 158 | 126 | 100 | 99  | 84  | 59  | 47  | 64  | 92  |
| 30% Exceedance                              | 106 | 116 | 144 | 140 | 98  | 89  | 92  | 79  | 51  | 41  | 57  | 85  |
| 40% Exceedance                              | 103 | 108 | 133 | 127 | 89  | 82  | 86  | 76  | 49  | 37  | 50  | 78  |
| 50% Exceedance                              | 95  | 95  | 123 | 112 | 83  | 78  | 79  | 73  | 47  | 34  | 45  | 68  |
| 60% Exceedance                              | 35  | 40  | 112 | 80  | 68  | 72  | 71  | 62  | 43  | 32  | 35  | 48  |
| 70% Exceedance                              | 29  | 34  | 93  | 66  | 58  | 67  | 62  | 49  | 37  | 29  | 30  | 39  |
| 80% Exceedance                              | 29  | 32  | 79  | 55  | 40  | 50  | 46  | 38  | 30  | 28  | 29  | 37  |
| 90% Exceedance                              | 28  | 30  | 48  | 34  | 25  | 29  | 19  | 15  | 19  | 27  | 28  | 33  |
| Full Simulation Period Average <sup>a</sup> | 73  | 82  | 115 | 106 | 84  | 77  | 74  | 62  | 46  | 41  | 49  | 65  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 61  | 47  | 43  | 35  | 27  | 26  | 29  | 29  | 36  |
| Above Normal Years (14%)                    | 31  | 33  | 104 | 105 | 76  | 75  | 77  | 65  | 42  | 29  | 30  | 39  |
| Below Normal Years (18%)                    | 103 | 103 | 122 | 117 | 85  | 87  | 89  | 69  | 45  | 35  | 49  | 83  |
| Dry Water Years (24%)                       | 107 | 115 | 125 | 128 | 102 | 88  | 87  | 78  | 52  | 41  | 62  | 83  |
| Critical Water Years (16%)                  | 111 | 144 | 160 | 141 | 128 | 112 | 100 | 88  | 79  | 78  | 79  | 92  |

**Table F.2.7-3-2c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA minus NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -5  | 0   | -4  | -5  | 3   | 15  | 18  | 3   | -8  | -28 | -24 | -17 |
| 20% Exceedance                              | 0   | 3   | -2  | 2   | -1  | 13  | 20  | 2   | 5   | 2   | -1  | -1  |
| 30% Exceedance                              | -2  | -2  | -4  | -2  | 1   | 9   | 18  | 4   | 2   | 2   | 3   | 1   |
| 40% Exceedance                              | 2   | -2  | -5  | -2  | 0   | 10  | 17  | 7   | 2   | 2   | 3   | 0   |
| 50% Exceedance                              | 2   | -4  | -5  | 1   | 2   | 9   | 12  | 7   | 1   | 1   | 5   | 4   |
| 60% Exceedance                              | 1   | 0   | 0   | 0   | 3   | 9   | 7   | 0   | 0   | 1   | 2   | 3   |
| 70% Exceedance                              | 0   | 0   | -2  | 1   | 3   | 9   | 4   | -6  | -2  | 0   | 1   | 4   |
| 80% Exceedance                              | 0   | 0   | 0   | 1   | 1   | 0   | 3   | -7  | -4  | 0   | 1   | 3   |
| 90% Exceedance                              | 1   | 0   | 0   | 0   | -1  | 1   | 0   | 1   | -1  | 1   | 1   | 1   |
| Full Simulation Period Average <sup>a</sup> | 0   | 0   | -2  | 0   | 1   | 9   | 10  | 1   | -2  | -2  | -2  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -2  | 0   | 1   | 1   | -3  | -2  | 0   | 1   | 1   |
| Above Normal Years (14%)                    | 1   | 0   | -1  | -1  | 0   | 9   | 11  | -1  | -1  | 1   | 2   | 3   |
| Below Normal Years (18%)                    | 1   | -1  | -1  | 3   | 3   | 16  | 20  | 4   | 0   | 1   | 3   | 1   |
| Dry Water Years (24%)                       | 4   | 2   | 0   | -2  | 0   | 11  | 16  | 8   | 4   | 2   | 4   | 7   |
| Critical Water Years (16%)                  | -11 | -2  | -10 | 1   | 5   | 11  | 6   | -7  | -14 | -19 | -26 | -23 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-3-3a. Banks Pumping Plant South Delta Exports Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 120 | 144 | 167 | 182 | 146 | 98  | 94  | 88  | 80  | 91  | 106 | 114 |
| 20% Exceedance                              | 110 | 124 | 159 | 156 | 127 | 87  | 79  | 82  | 54  | 45  | 65  | 94  |
| 30% Exceedance                              | 108 | 118 | 149 | 142 | 97  | 79  | 74  | 76  | 49  | 39  | 54  | 84  |
| 40% Exceedance                              | 101 | 110 | 139 | 129 | 89  | 73  | 69  | 69  | 47  | 36  | 48  | 78  |
| 50% Exceedance                              | 93  | 99  | 129 | 112 | 81  | 68  | 67  | 66  | 46  | 34  | 39  | 65  |
| 60% Exceedance                              | 34  | 40  | 112 | 80  | 65  | 63  | 63  | 62  | 43  | 31  | 33  | 45  |
| 70% Exceedance                              | 30  | 34  | 96  | 66  | 55  | 58  | 57  | 55  | 40  | 29  | 29  | 35  |
| 80% Exceedance                              | 28  | 31  | 79  | 55  | 39  | 50  | 43  | 45  | 34  | 28  | 28  | 34  |
| 90% Exceedance                              | 27  | 30  | 49  | 34  | 26  | 28  | 18  | 14  | 20  | 26  | 27  | 32  |
| Full Simulation Period Average <sup>a</sup> | 74  | 82  | 117 | 106 | 83  | 68  | 63  | 61  | 48  | 43  | 51  | 66  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 63  | 48  | 42  | 34  | 30  | 28  | 29  | 29  | 34  |
| Above Normal Years (14%)                    | 31  | 33  | 104 | 106 | 76  | 66  | 66  | 65  | 43  | 28  | 28  | 36  |
| Below Normal Years (18%)                    | 102 | 104 | 123 | 114 | 82  | 71  | 69  | 65  | 45  | 34  | 46  | 82  |
| Dry Water Years (24%)                       | 103 | 113 | 126 | 130 | 102 | 77  | 71  | 71  | 48  | 39  | 57  | 77  |
| Critical Water Years (16%)                  | 122 | 146 | 170 | 140 | 123 | 100 | 94  | 94  | 93  | 97  | 105 | 115 |

**Table F.2.7-3-3b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPAIIVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 114 | 143 | 162 | 178 | 150 | 113 | 112 | 90  | 73  | 63  | 81  | 96  |
| 20% Exceedance                              | 109 | 126 | 155 | 159 | 121 | 100 | 99  | 84  | 57  | 46  | 65  | 91  |
| 30% Exceedance                              | 106 | 115 | 143 | 139 | 98  | 89  | 92  | 79  | 51  | 41  | 56  | 86  |
| 40% Exceedance                              | 103 | 107 | 132 | 126 | 88  | 82  | 85  | 76  | 48  | 37  | 49  | 79  |
| 50% Exceedance                              | 97  | 99  | 124 | 111 | 82  | 77  | 79  | 73  | 46  | 35  | 44  | 68  |
| 60% Exceedance                              | 34  | 40  | 114 | 80  | 68  | 73  | 71  | 62  | 43  | 31  | 35  | 47  |
| 70% Exceedance                              | 29  | 34  | 94  | 67  | 58  | 67  | 62  | 48  | 37  | 29  | 30  | 38  |
| 80% Exceedance                              | 29  | 31  | 79  | 55  | 40  | 50  | 46  | 38  | 30  | 28  | 29  | 36  |
| 90% Exceedance                              | 28  | 30  | 46  | 34  | 25  | 29  | 19  | 15  | 19  | 27  | 27  | 33  |
| Full Simulation Period Average <sup>a</sup> | 73  | 82  | 115 | 106 | 84  | 77  | 74  | 62  | 46  | 40  | 48  | 65  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 62  | 48  | 43  | 35  | 27  | 26  | 29  | 29  | 36  |
| Above Normal Years (14%)                    | 31  | 32  | 104 | 105 | 76  | 75  | 77  | 65  | 42  | 28  | 29  | 38  |
| Below Normal Years (18%)                    | 103 | 103 | 121 | 115 | 85  | 87  | 89  | 68  | 44  | 35  | 48  | 83  |
| Dry Water Years (24%)                       | 107 | 113 | 124 | 127 | 100 | 87  | 87  | 79  | 51  | 41  | 62  | 84  |
| Critical Water Years (16%)                  | 110 | 144 | 160 | 141 | 130 | 113 | 100 | 87  | 77  | 75  | 77  | 90  |

**Table F.2.7-3-3c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPAIIVA minus NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -6  | -1  | -4  | -5  | 3   | 15  | 18  | 2   | -7  | -28 | -25 | -18 |
| 20% Exceedance                              | -1  | 2   | -4  | 3   | -6  | 12  | 20  | 2   | 3   | 1   | -1  | -3  |
| 30% Exceedance                              | -2  | -3  | -5  | -4  | 1   | 9   | 18  | 4   | 1   | 2   | 2   | 3   |
| 40% Exceedance                              | 2   | -3  | -6  | -3  | -1  | 10  | 17  | 8   | 0   | 1   | 1   | 2   |
| 50% Exceedance                              | 4   | -1  | -5  | -1  | 1   | 9   | 12  | 7   | 0   | 1   | 5   | 4   |
| 60% Exceedance                              | 0   | 0   | 2   | 0   | 3   | 10  | 8   | 0   | -1  | 1   | 2   | 2   |
| 70% Exceedance                              | 0   | 0   | -2  | 1   | 3   | 9   | 5   | -7  | -3  | 1   | 0   | 3   |
| 80% Exceedance                              | 0   | 0   | 0   | 1   | 1   | 0   | 3   | -7  | -4  | 0   | 1   | 2   |
| 90% Exceedance                              | 0   | 0   | -2  | 0   | -1  | 1   | 0   | 1   | -1  | 0   | 0   | 1   |
| Full Simulation Period Average <sup>a</sup> | -1  | 0   | -3  | -1  | 1   | 9   | 10  | 1   | -3  | -3  | -3  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | 0   | -1  | 0   | 1   | 1   | -3  | -2  | 0   | 1   | 1   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | -1  | 0   | 8   | 11  | -1  | -1  | 0   | 1   | 2   |
| Below Normal Years (18%)                    | 1   | -1  | -2  | 2   | 2   | 16  | 20  | 3   | -1  | 1   | 2   | 1   |
| Dry Water Years (24%)                       | 4   | 1   | -2  | -3  | -2  | 11  | 17  | 8   | 3   | 2   | 5   | 7   |
| Critical Water Years (16%)                  | -12 | -2  | -10 | 1   | 7   | 13  | 6   | -7  | -16 | -22 | -28 | -25 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-3-4a. Banks Pumping Plant South Delta Exports Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 120 | 144 | 167 | 182 | 146 | 98  | 94  | 88  | 80  | 91  | 106 | 114 |
| 20% Exceedance                              | 110 | 124 | 159 | 156 | 127 | 87  | 79  | 82  | 54  | 45  | 65  | 94  |
| 30% Exceedance                              | 108 | 118 | 149 | 142 | 97  | 79  | 74  | 76  | 49  | 39  | 54  | 84  |
| 40% Exceedance                              | 101 | 110 | 139 | 129 | 89  | 73  | 69  | 69  | 47  | 36  | 48  | 78  |
| 50% Exceedance                              | 93  | 99  | 129 | 112 | 81  | 68  | 67  | 66  | 46  | 34  | 39  | 65  |
| 60% Exceedance                              | 34  | 40  | 112 | 80  | 65  | 63  | 63  | 62  | 43  | 31  | 33  | 45  |
| 70% Exceedance                              | 30  | 34  | 96  | 66  | 55  | 58  | 57  | 55  | 40  | 29  | 29  | 35  |
| 80% Exceedance                              | 28  | 31  | 79  | 55  | 39  | 50  | 43  | 45  | 34  | 28  | 28  | 34  |
| 90% Exceedance                              | 27  | 30  | 49  | 34  | 26  | 28  | 18  | 14  | 20  | 26  | 27  | 32  |
| Full Simulation Period Average <sup>a</sup> | 74  | 82  | 117 | 106 | 83  | 68  | 63  | 61  | 48  | 43  | 51  | 66  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 63  | 48  | 42  | 34  | 30  | 28  | 29  | 29  | 34  |
| Above Normal Years (14%)                    | 31  | 33  | 104 | 106 | 76  | 66  | 66  | 65  | 43  | 28  | 28  | 36  |
| Below Normal Years (18%)                    | 102 | 104 | 123 | 114 | 82  | 71  | 69  | 65  | 45  | 34  | 46  | 82  |
| Dry Water Years (24%)                       | 103 | 113 | 126 | 130 | 102 | 77  | 71  | 71  | 48  | 39  | 57  | 77  |
| Critical Water Years (16%)                  | 122 | 146 | 170 | 140 | 123 | 100 | 94  | 94  | 93  | 97  | 105 | 115 |

**Table F.2.7-3-4b. Banks Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 118 | 146 | 168 | 178 | 149 | 96  | 91  | 82  | 78  | 82  | 102 | 113 |
| 20% Exceedance                              | 112 | 127 | 156 | 159 | 124 | 88  | 80  | 71  | 53  | 45  | 65  | 92  |
| 30% Exceedance                              | 107 | 119 | 146 | 147 | 97  | 80  | 73  | 66  | 47  | 41  | 55  | 85  |
| 40% Exceedance                              | 104 | 106 | 137 | 134 | 89  | 73  | 68  | 63  | 45  | 36  | 51  | 80  |
| 50% Exceedance                              | 95  | 93  | 127 | 110 | 83  | 69  | 67  | 59  | 43  | 34  | 44  | 70  |
| 60% Exceedance                              | 36  | 40  | 111 | 80  | 68  | 64  | 62  | 55  | 39  | 31  | 34  | 50  |
| 70% Exceedance                              | 30  | 33  | 93  | 66  | 58  | 59  | 51  | 43  | 36  | 29  | 30  | 41  |
| 80% Exceedance                              | 29  | 31  | 79  | 55  | 40  | 49  | 44  | 36  | 29  | 28  | 29  | 37  |
| 90% Exceedance                              | 28  | 30  | 48  | 34  | 25  | 29  | 22  | 15  | 19  | 27  | 28  | 34  |
| Full Simulation Period Average <sup>a</sup> | 75  | 82  | 116 | 107 | 83  | 69  | 63  | 55  | 46  | 43  | 52  | 68  |
| Wet Water Years (28%)                       | 29  | 33  | 84  | 61  | 47  | 41  | 34  | 26  | 26  | 29  | 30  | 36  |
| Above Normal Years (14%)                    | 32  | 33  | 102 | 105 | 76  | 65  | 62  | 52  | 39  | 28  | 29  | 40  |
| Below Normal Years (18%)                    | 103 | 102 | 121 | 112 | 83  | 72  | 69  | 57  | 42  | 34  | 49  | 83  |
| Dry Water Years (24%)                       | 105 | 115 | 127 | 134 | 103 | 79  | 71  | 65  | 46  | 41  | 59  | 80  |
| Critical Water Years (16%)                  | 121 | 147 | 165 | 143 | 122 | 100 | 95  | 91  | 90  | 94  | 102 | 112 |

**Table F.2.7-3-4c. Banks Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | 2   | 1   | -4  | 2   | -2  | -3  | -6  | -2  | -8  | -5  | 0   |
| 20% Exceedance                              | 2   | 3   | -3  | 3   | -3  | 1   | 1   | -11 | -1  | 0   | 0   | -2  |
| 30% Exceedance                              | -1  | 1   | -3  | 4   | 0   | 1   | -1  | -9  | -2  | 2   | 1   | 1   |
| 40% Exceedance                              | 3   | -4  | -2  | 5   | 0   | 1   | 0   | -6  | -2  | 0   | 3   | 3   |
| 50% Exceedance                              | 2   | -6  | -2  | -2  | 2   | 0   | -1  | -7  | -3  | 0   | 5   | 5   |
| 60% Exceedance                              | 2   | 0   | -1  | 0   | 2   | 1   | -2  | -7  | -5  | 0   | 1   | 5   |
| 70% Exceedance                              | 0   | 0   | -3  | 0   | 2   | 1   | -7  | -11 | -4  | 0   | 1   | 5   |
| 80% Exceedance                              | 0   | 0   | 0   | 1   | 1   | 0   | 2   | -9  | -4  | 0   | 1   | 3   |
| 90% Exceedance                              | 0   | 0   | 0   | 0   | -1  | 1   | 3   | 0   | -1  | 0   | 1   | 2   |
| Full Simulation Period Average <sup>a</sup> | 1   | 0   | -1  | 0   | 0   | 0   | -1  | -6  | -3  | 0   | 1   | 2   |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -2  | 0   | -1  | 0   | -4  | -2  | 0   | 1   | 2   |
| Above Normal Years (14%)                    | 1   | 0   | -2  | -1  | 0   | -1  | -4  | -13 | -4  | -1  | 1   | 4   |
| Below Normal Years (18%)                    | 1   | -2  | -2  | -1  | 1   | 1   | 0   | -8  | -3  | 0   | 3   | 1   |
| Dry Water Years (24%)                       | 2   | 2   | 1   | 4   | 1   | 2   | 0   | -6  | -2  | 1   | 2   | 4   |
| Critical Water Years (16%)                  | -2  | 1   | -5  | 4   | 0   | 0   | 1   | -3  | -4  | -3  | -4  | -3  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-3-5a. Banks Pumping Plant South Delta Exports Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 120 | 144 | 167 | 182 | 146 | 98  | 94  | 88  | 80  | 91  | 106 | 114 |
| 20% Exceedance                              | 110 | 124 | 159 | 156 | 127 | 87  | 79  | 82  | 54  | 45  | 65  | 94  |
| 30% Exceedance                              | 108 | 118 | 149 | 142 | 97  | 79  | 74  | 76  | 49  | 39  | 54  | 84  |
| 40% Exceedance                              | 101 | 110 | 139 | 129 | 89  | 73  | 69  | 69  | 47  | 36  | 48  | 78  |
| 50% Exceedance                              | 93  | 99  | 129 | 112 | 81  | 68  | 67  | 66  | 46  | 34  | 39  | 65  |
| 60% Exceedance                              | 34  | 40  | 112 | 80  | 65  | 63  | 63  | 62  | 43  | 31  | 33  | 45  |
| 70% Exceedance                              | 30  | 34  | 96  | 66  | 55  | 58  | 57  | 55  | 40  | 29  | 29  | 35  |
| 80% Exceedance                              | 28  | 31  | 79  | 55  | 39  | 50  | 43  | 45  | 34  | 28  | 28  | 34  |
| 90% Exceedance                              | 27  | 30  | 49  | 34  | 26  | 28  | 18  | 14  | 20  | 26  | 27  | 32  |
| Full Simulation Period Average <sup>a</sup> | 74  | 82  | 117 | 106 | 83  | 68  | 63  | 61  | 48  | 43  | 51  | 66  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 63  | 48  | 42  | 34  | 30  | 28  | 29  | 29  | 34  |
| Above Normal Years (14%)                    | 31  | 33  | 104 | 106 | 76  | 66  | 66  | 65  | 43  | 28  | 28  | 36  |
| Below Normal Years (18%)                    | 102 | 104 | 123 | 114 | 82  | 71  | 69  | 65  | 45  | 34  | 46  | 82  |
| Dry Water Years (24%)                       | 103 | 113 | 126 | 130 | 102 | 77  | 71  | 71  | 48  | 39  | 57  | 77  |
| Critical Water Years (16%)                  | 122 | 146 | 170 | 140 | 123 | 100 | 94  | 94  | 93  | 97  | 105 | 115 |

**Table F.2.7-3-5b. Banks Pumping Plant South Delta Exports Chloride, EXP3, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 198 | 197 | 196 | 197 | 201 | 202 | 204 | 205 | 205 | 202 | 200 | 198 |
| 20% Exceedance                              | 193 | 192 | 190 | 190 | 194 | 196 | 197 | 198 | 198 | 197 | 195 | 194 |
| 30% Exceedance                              | 188 | 188 | 186 | 188 | 190 | 192 | 193 | 194 | 194 | 192 | 190 | 189 |
| 40% Exceedance                              | 184 | 183 | 183 | 184 | 188 | 190 | 191 | 192 | 190 | 188 | 185 | 184 |
| 50% Exceedance                              | 182 | 182 | 181 | 182 | 185 | 188 | 189 | 189 | 188 | 184 | 183 | 183 |
| 60% Exceedance                              | 179 | 179 | 178 | 179 | 181 | 182 | 184 | 185 | 183 | 182 | 180 | 180 |
| 70% Exceedance                              | 175 | 175 | 174 | 176 | 176 | 178 | 179 | 180 | 179 | 178 | 176 | 175 |
| 80% Exceedance                              | 171 | 170 | 170 | 170 | 172 | 174 | 176 | 176 | 175 | 173 | 171 | 171 |
| 90% Exceedance                              | 162 | 162 | 163 | 164 | 166 | 167 | 168 | 169 | 170 | 168 | 168 | 168 |
| Full Simulation Period Average <sup>a</sup> | 178 | 177 | 177 | 178 | 180 | 182 | 184 | 185 | 184 | 182 | 181 | 180 |
| Wet Water Years (28%)                       | 189 | 189 | 187 | 185 | 188 | 190 | 191 | 192 | 193 | 192 | 191 | 190 |
| Above Normal Years (14%)                    | 168 | 167 | 168 | 174 | 177 | 179 | 181 | 182 | 182 | 181 | 180 | 179 |
| Below Normal Years (18%)                    | 176 | 176 | 176 | 178 | 180 | 181 | 183 | 183 | 182 | 179 | 177 | 177 |
| Dry Water Years (24%)                       | 177 | 176 | 176 | 178 | 180 | 182 | 183 | 184 | 182 | 180 | 178 | 177 |
| Critical Water Years (16%)                  | 171 | 171 | 172 | 170 | 171 | 173 | 175 | 176 | 174 | 173 | 172 | 172 |

**Table F.2.7-3-5c. Banks Pumping Plant South Delta Exports Chloride, EXP3 minus NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 78  | 53  | 29  | 15  | 54  | 104 | 110 | 117 | 125 | 112 | 93  | 85  |
| 20% Exceedance                              | 83  | 68  | 32  | 34  | 67  | 108 | 119 | 116 | 144 | 152 | 129 | 100 |
| 30% Exceedance                              | 80  | 70  | 38  | 45  | 93  | 112 | 119 | 119 | 144 | 153 | 136 | 105 |
| 40% Exceedance                              | 83  | 73  | 45  | 56  | 98  | 117 | 122 | 123 | 143 | 152 | 138 | 106 |
| 50% Exceedance                              | 89  | 83  | 52  | 71  | 104 | 119 | 121 | 123 | 142 | 151 | 143 | 118 |
| 60% Exceedance                              | 145 | 139 | 67  | 99  | 116 | 119 | 120 | 123 | 140 | 151 | 147 | 135 |
| 70% Exceedance                              | 146 | 141 | 78  | 110 | 121 | 119 | 121 | 125 | 139 | 149 | 147 | 140 |
| 80% Exceedance                              | 143 | 139 | 91  | 116 | 133 | 124 | 133 | 131 | 141 | 145 | 143 | 137 |
| 90% Exceedance                              | 135 | 132 | 114 | 131 | 140 | 139 | 149 | 155 | 150 | 142 | 141 | 136 |
| Full Simulation Period Average <sup>a</sup> | 104 | 96  | 60  | 72  | 97  | 114 | 120 | 123 | 136 | 139 | 130 | 114 |
| Wet Water Years (28%)                       | 161 | 156 | 102 | 122 | 140 | 148 | 158 | 162 | 165 | 164 | 162 | 156 |
| Above Normal Years (14%)                    | 137 | 134 | 63  | 68  | 101 | 113 | 115 | 117 | 139 | 153 | 152 | 143 |
| Below Normal Years (18%)                    | 74  | 72  | 53  | 64  | 97  | 110 | 113 | 118 | 137 | 145 | 132 | 95  |
| Dry Water Years (24%)                       | 74  | 64  | 50  | 48  | 78  | 105 | 112 | 114 | 134 | 141 | 121 | 101 |
| Critical Water Years (16%)                  | 49  | 24  | 1   | 30  | 49  | 73  | 81  | 81  | 81  | 75  | 66  | 57  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-3-6a. Banks Pumping Plant South Delta Exports Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 222 | 222 | 221 | 220 | 223 | 225 | 226 | 227 | 227 | 224 | 223 | 223 |
| 20% Exceedance                              | 211 | 212 | 212 | 211 | 215 | 216 | 218 | 219 | 218 | 213 | 210 | 210 |
| 30% Exceedance                              | 207 | 206 | 206 | 207 | 207 | 209 | 210 | 211 | 209 | 208 | 207 | 207 |
| 40% Exceedance                              | 203 | 203 | 203 | 203 | 204 | 206 | 207 | 208 | 206 | 205 | 203 | 204 |
| 50% Exceedance                              | 201 | 201 | 200 | 201 | 202 | 203 | 204 | 204 | 203 | 200 | 200 | 200 |
| 60% Exceedance                              | 197 | 196 | 196 | 195 | 197 | 200 | 201 | 201 | 199 | 198 | 197 | 197 |
| 70% Exceedance                              | 193 | 192 | 191 | 191 | 191 | 193 | 194 | 195 | 193 | 191 | 192 | 193 |
| 80% Exceedance                              | 186 | 186 | 185 | 186 | 186 | 188 | 189 | 190 | 188 | 187 | 186 | 186 |
| 90% Exceedance                              | 175 | 176 | 174 | 175 | 176 | 178 | 179 | 178 | 177 | 177 | 177 | 177 |
| Full Simulation Period Average <sup>a</sup> | 195 | 195 | 194 | 195 | 196 | 198 | 199 | 200 | 199 | 197 | 196 | 197 |
| Wet Water Years (28%)                       | 203 | 203 | 201 | 201 | 202 | 205 | 206 | 206 | 206 | 206 | 205 | 204 |
| Above Normal Years (14%)                    | 181 | 181 | 181 | 190 | 192 | 194 | 196 | 197 | 197 | 196 | 194 | 193 |
| Below Normal Years (18%)                    | 193 | 193 | 192 | 195 | 196 | 197 | 199 | 199 | 198 | 195 | 193 | 193 |
| Dry Water Years (24%)                       | 193 | 193 | 193 | 193 | 195 | 196 | 198 | 198 | 196 | 193 | 192 | 193 |
| Critical Water Years (16%)                  | 199 | 200 | 201 | 190 | 192 | 193 | 194 | 195 | 194 | 192 | 193 | 197 |

**Table F.2.7-3-6b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 113 | 143 | 163 | 179 | 147 | 101 | 88  | 79  | 72  | 70  | 80  | 96  |
| 20% Exceedance                              | 109 | 127 | 156 | 163 | 124 | 89  | 80  | 71  | 53  | 45  | 63  | 88  |
| 30% Exceedance                              | 106 | 118 | 144 | 147 | 98  | 79  | 74  | 66  | 47  | 41  | 54  | 84  |
| 40% Exceedance                              | 103 | 107 | 134 | 127 | 88  | 73  | 68  | 63  | 45  | 36  | 50  | 77  |
| 50% Exceedance                              | 95  | 91  | 125 | 112 | 83  | 69  | 67  | 59  | 43  | 34  | 42  | 68  |
| 60% Exceedance                              | 36  | 40  | 111 | 80  | 68  | 64  | 61  | 55  | 39  | 31  | 34  | 50  |
| 70% Exceedance                              | 30  | 33  | 93  | 66  | 57  | 59  | 52  | 44  | 36  | 29  | 30  | 40  |
| 80% Exceedance                              | 29  | 31  | 79  | 55  | 40  | 49  | 44  | 36  | 30  | 28  | 29  | 37  |
| 90% Exceedance                              | 28  | 30  | 48  | 34  | 25  | 29  | 22  | 14  | 19  | 27  | 28  | 34  |
| Full Simulation Period Average <sup>a</sup> | 73  | 82  | 115 | 107 | 84  | 69  | 63  | 54  | 44  | 41  | 48  | 64  |
| Wet Water Years (28%)                       | 29  | 33  | 84  | 61  | 47  | 41  | 34  | 26  | 26  | 29  | 30  | 36  |
| Above Normal Years (14%)                    | 32  | 32  | 102 | 105 | 76  | 65  | 62  | 52  | 39  | 28  | 29  | 40  |
| Below Normal Years (18%)                    | 102 | 103 | 120 | 115 | 84  | 72  | 68  | 57  | 42  | 34  | 48  | 80  |
| Dry Water Years (24%)                       | 105 | 115 | 126 | 132 | 102 | 78  | 71  | 65  | 46  | 41  | 59  | 80  |
| Critical Water Years (16%)                  | 110 | 142 | 158 | 144 | 125 | 105 | 95  | 85  | 78  | 79  | 81  | 91  |

**Table F.2.7-3-6c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -109 | -79  | -58  | -41  | -76  | -124 | -138 | -148 | -155 | -154 | -143 | -127 |
| 20% Exceedance                              | -102 | -85  | -56  | -48  | -91  | -127 | -139 | -148 | -164 | -168 | -148 | -122 |
| 30% Exceedance                              | -101 | -88  | -62  | -60  | -109 | -129 | -136 | -144 | -162 | -167 | -153 | -123 |
| 40% Exceedance                              | -101 | -96  | -68  | -76  | -116 | -133 | -139 | -145 | -161 | -168 | -153 | -127 |
| 50% Exceedance                              | -106 | -109 | -75  | -88  | -119 | -134 | -137 | -145 | -160 | -166 | -158 | -132 |
| 60% Exceedance                              | -161 | -157 | -85  | -116 | -130 | -136 | -140 | -146 | -160 | -167 | -162 | -147 |
| 70% Exceedance                              | -163 | -158 | -97  | -124 | -133 | -134 | -143 | -150 | -157 | -163 | -163 | -153 |
| 80% Exceedance                              | -157 | -154 | -106 | -130 | -145 | -138 | -145 | -154 | -158 | -159 | -157 | -149 |
| 90% Exceedance                              | -148 | -146 | -126 | -142 | -152 | -149 | -157 | -164 | -158 | -150 | -149 | -143 |
| Full Simulation Period Average <sup>a</sup> | -122 | -113 | -80  | -88  | -113 | -129 | -137 | -146 | -155 | -156 | -148 | -133 |
| Wet Water Years (28%)                       | -175 | -170 | -117 | -141 | -155 | -164 | -172 | -181 | -181 | -177 | -175 | -168 |
| Above Normal Years (14%)                    | -149 | -148 | -79  | -85  | -116 | -129 | -133 | -145 | -158 | -168 | -165 | -153 |
| Below Normal Years (18%)                    | -91  | -90  | -72  | -79  | -112 | -126 | -131 | -142 | -155 | -160 | -145 | -113 |
| Dry Water Years (24%)                       | -88  | -78  | -66  | -61  | -92  | -118 | -127 | -133 | -150 | -152 | -133 | -112 |
| Critical Water Years (16%)                  | -89  | -57  | -43  | -46  | -67  | -88  | -100 | -110 | -115 | -112 | -113 | -106 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-3-7a. Banks Pumping Plant South Delta Exports Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 222 | 222 | 221 | 220 | 223 | 225 | 226 | 227 | 227 | 224 | 223 | 223 |
| 20% Exceedance                              | 211 | 212 | 212 | 211 | 215 | 216 | 218 | 219 | 218 | 213 | 210 | 210 |
| 30% Exceedance                              | 207 | 206 | 206 | 207 | 207 | 209 | 210 | 211 | 209 | 208 | 207 | 207 |
| 40% Exceedance                              | 203 | 203 | 203 | 203 | 204 | 206 | 207 | 208 | 206 | 205 | 203 | 204 |
| 50% Exceedance                              | 201 | 201 | 200 | 201 | 202 | 203 | 204 | 204 | 203 | 200 | 200 | 200 |
| 60% Exceedance                              | 197 | 196 | 196 | 195 | 197 | 200 | 201 | 201 | 199 | 198 | 197 | 197 |
| 70% Exceedance                              | 193 | 192 | 191 | 191 | 191 | 193 | 194 | 195 | 193 | 191 | 192 | 193 |
| 80% Exceedance                              | 186 | 186 | 185 | 186 | 186 | 188 | 189 | 190 | 188 | 187 | 186 | 186 |
| 90% Exceedance                              | 175 | 176 | 174 | 175 | 176 | 178 | 179 | 178 | 177 | 177 | 177 | 177 |
| Full Simulation Period Average <sup>a</sup> | 195 | 195 | 194 | 195 | 196 | 198 | 199 | 200 | 199 | 197 | 196 | 197 |
| Wet Water Years (28%)                       | 203 | 203 | 201 | 201 | 202 | 205 | 206 | 206 | 206 | 206 | 205 | 204 |
| Above Normal Years (14%)                    | 181 | 181 | 181 | 190 | 192 | 194 | 196 | 197 | 197 | 196 | 194 | 193 |
| Below Normal Years (18%)                    | 193 | 193 | 192 | 195 | 196 | 197 | 199 | 199 | 198 | 195 | 193 | 193 |
| Dry Water Years (24%)                       | 193 | 193 | 193 | 193 | 195 | 196 | 198 | 198 | 196 | 193 | 192 | 193 |
| Critical Water Years (16%)                  | 199 | 200 | 201 | 190 | 192 | 193 | 194 | 195 | 194 | 192 | 193 | 197 |

**Table F.2.7-3-7b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 115 | 144 | 163 | 177 | 149 | 113 | 112 | 90  | 72  | 63  | 83  | 97  |
| 20% Exceedance                              | 110 | 128 | 157 | 158 | 126 | 100 | 99  | 84  | 59  | 47  | 64  | 92  |
| 30% Exceedance                              | 106 | 116 | 144 | 140 | 98  | 89  | 92  | 79  | 51  | 41  | 57  | 85  |
| 40% Exceedance                              | 103 | 108 | 133 | 127 | 89  | 82  | 86  | 76  | 49  | 37  | 50  | 78  |
| 50% Exceedance                              | 95  | 95  | 123 | 112 | 83  | 78  | 79  | 73  | 47  | 34  | 45  | 68  |
| 60% Exceedance                              | 35  | 40  | 112 | 80  | 68  | 72  | 71  | 62  | 43  | 32  | 35  | 48  |
| 70% Exceedance                              | 29  | 34  | 93  | 66  | 58  | 67  | 62  | 49  | 37  | 29  | 30  | 39  |
| 80% Exceedance                              | 29  | 32  | 79  | 55  | 40  | 50  | 46  | 38  | 30  | 28  | 29  | 37  |
| 90% Exceedance                              | 28  | 30  | 48  | 34  | 25  | 29  | 19  | 15  | 19  | 27  | 28  | 33  |
| Full Simulation Period Average <sup>a</sup> | 73  | 82  | 115 | 106 | 84  | 77  | 74  | 62  | 46  | 41  | 49  | 65  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 61  | 47  | 43  | 35  | 27  | 26  | 29  | 29  | 36  |
| Above Normal Years (14%)                    | 31  | 33  | 104 | 105 | 76  | 75  | 77  | 65  | 42  | 29  | 30  | 39  |
| Below Normal Years (18%)                    | 103 | 103 | 122 | 117 | 85  | 87  | 89  | 69  | 45  | 35  | 49  | 83  |
| Dry Water Years (24%)                       | 107 | 115 | 125 | 128 | 102 | 88  | 87  | 78  | 52  | 41  | 62  | 83  |
| Critical Water Years (16%)                  | 111 | 144 | 160 | 141 | 128 | 112 | 100 | 88  | 79  | 78  | 79  | 92  |

**Table F.2.7-3-7c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -108 | -77  | -58  | -43  | -74  | -112 | -114 | -136 | -155 | -162 | -141 | -126 |
| 20% Exceedance                              | -102 | -84  | -55  | -53  | -89  | -117 | -120 | -136 | -158 | -166 | -146 | -118 |
| 30% Exceedance                              | -101 | -90  | -62  | -66  | -109 | -120 | -118 | -132 | -158 | -167 | -150 | -122 |
| 40% Exceedance                              | -100 | -95  | -69  | -75  | -116 | -124 | -121 | -132 | -157 | -167 | -153 | -126 |
| 50% Exceedance                              | -106 | -105 | -77  | -88  | -119 | -125 | -125 | -132 | -156 | -166 | -155 | -132 |
| 60% Exceedance                              | -162 | -157 | -84  | -115 | -130 | -128 | -130 | -139 | -156 | -166 | -162 | -149 |
| 70% Exceedance                              | -164 | -158 | -97  | -124 | -133 | -126 | -133 | -146 | -156 | -162 | -163 | -154 |
| 80% Exceedance                              | -157 | -154 | -106 | -130 | -146 | -138 | -143 | -151 | -158 | -159 | -157 | -149 |
| 90% Exceedance                              | -147 | -146 | -126 | -142 | -152 | -149 | -160 | -163 | -158 | -150 | -149 | -144 |
| Full Simulation Period Average <sup>a</sup> | -122 | -113 | -79  | -89  | -112 | -121 | -126 | -138 | -153 | -156 | -147 | -131 |
| Wet Water Years (28%)                       | -175 | -169 | -116 | -140 | -155 | -162 | -170 | -179 | -181 | -177 | -175 | -168 |
| Above Normal Years (14%)                    | -150 | -148 | -77  | -85  | -116 | -120 | -119 | -132 | -155 | -166 | -164 | -155 |
| Below Normal Years (18%)                    | -91  | -90  | -71  | -78  | -111 | -111 | -109 | -130 | -153 | -160 | -144 | -110 |
| Dry Water Years (24%)                       | -86  | -78  | -67  | -65  | -93  | -108 | -110 | -120 | -144 | -152 | -130 | -109 |
| Critical Water Years (16%)                  | -88  | -56  | -41  | -49  | -64  | -81  | -95  | -107 | -114 | -113 | -114 | -105 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.7-3-8a. Banks Pumping Plant South Delta Exports Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 222 | 222 | 221 | 220 | 223 | 225 | 226 | 227 | 227 | 224 | 223 | 223 |
| 20% Exceedance                              | 211 | 212 | 212 | 211 | 215 | 216 | 218 | 219 | 218 | 213 | 210 | 210 |
| 30% Exceedance                              | 207 | 206 | 206 | 207 | 207 | 209 | 210 | 211 | 209 | 208 | 207 | 207 |
| 40% Exceedance                              | 203 | 203 | 203 | 203 | 204 | 206 | 207 | 208 | 206 | 205 | 203 | 204 |
| 50% Exceedance                              | 201 | 201 | 200 | 201 | 202 | 203 | 204 | 204 | 203 | 200 | 200 | 200 |
| 60% Exceedance                              | 197 | 196 | 196 | 195 | 197 | 200 | 201 | 201 | 199 | 198 | 197 | 197 |
| 70% Exceedance                              | 193 | 192 | 191 | 191 | 191 | 193 | 194 | 195 | 193 | 191 | 192 | 193 |
| 80% Exceedance                              | 186 | 186 | 185 | 186 | 186 | 188 | 189 | 190 | 188 | 187 | 186 | 186 |
| 90% Exceedance                              | 175 | 176 | 174 | 175 | 176 | 178 | 179 | 178 | 177 | 177 | 177 | 177 |
| Full Simulation Period Average <sup>a</sup> | 195 | 195 | 194 | 195 | 196 | 198 | 199 | 200 | 199 | 197 | 196 | 197 |
| Wet Water Years (28%)                       | 203 | 203 | 201 | 201 | 202 | 205 | 206 | 206 | 206 | 206 | 205 | 204 |
| Above Normal Years (14%)                    | 181 | 181 | 181 | 190 | 192 | 194 | 196 | 197 | 197 | 196 | 194 | 193 |
| Below Normal Years (18%)                    | 193 | 193 | 192 | 195 | 196 | 197 | 199 | 199 | 198 | 195 | 193 | 193 |
| Dry Water Years (24%)                       | 193 | 193 | 193 | 193 | 195 | 196 | 198 | 198 | 196 | 193 | 192 | 193 |
| Critical Water Years (16%)                  | 199 | 200 | 201 | 190 | 192 | 193 | 194 | 195 | 194 | 192 | 193 | 197 |

**Table F.2.7-3-8b. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPAIIVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 114 | 143 | 162 | 178 | 150 | 113 | 112 | 90  | 73  | 63  | 81  | 96  |
| 20% Exceedance                              | 109 | 126 | 155 | 159 | 121 | 100 | 99  | 84  | 57  | 46  | 65  | 91  |
| 30% Exceedance                              | 106 | 115 | 143 | 139 | 98  | 89  | 92  | 79  | 51  | 41  | 56  | 86  |
| 40% Exceedance                              | 103 | 107 | 132 | 126 | 88  | 82  | 85  | 76  | 48  | 37  | 49  | 79  |
| 50% Exceedance                              | 97  | 99  | 124 | 111 | 82  | 77  | 79  | 73  | 46  | 35  | 44  | 68  |
| 60% Exceedance                              | 34  | 40  | 114 | 80  | 68  | 73  | 71  | 62  | 43  | 31  | 35  | 47  |
| 70% Exceedance                              | 29  | 34  | 94  | 67  | 58  | 67  | 62  | 48  | 37  | 29  | 30  | 38  |
| 80% Exceedance                              | 29  | 31  | 79  | 55  | 40  | 50  | 46  | 38  | 30  | 28  | 29  | 36  |
| 90% Exceedance                              | 28  | 30  | 46  | 34  | 25  | 29  | 19  | 15  | 19  | 27  | 27  | 33  |
| Full Simulation Period Average <sup>a</sup> | 73  | 82  | 115 | 106 | 84  | 77  | 74  | 62  | 46  | 40  | 48  | 65  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 62  | 48  | 43  | 35  | 27  | 26  | 29  | 29  | 36  |
| Above Normal Years (14%)                    | 31  | 32  | 104 | 105 | 76  | 75  | 77  | 65  | 42  | 28  | 29  | 38  |
| Below Normal Years (18%)                    | 103 | 103 | 121 | 115 | 85  | 87  | 89  | 68  | 44  | 35  | 48  | 83  |
| Dry Water Years (24%)                       | 107 | 113 | 124 | 127 | 100 | 87  | 87  | 79  | 51  | 41  | 62  | 84  |
| Critical Water Years (16%)                  | 110 | 144 | 160 | 141 | 130 | 113 | 100 | 87  | 77  | 75  | 77  | 90  |

**Table F.2.7-3-8c. Banks Pumping Plant South Delta Exports Chloride, Alt2woTUCPAIIVA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -108 | -78  | -58  | -43  | -73  | -112 | -114 | -137 | -154 | -161 | -142 | -127 |
| 20% Exceedance                              | -103 | -85  | -57  | -51  | -94  | -117 | -120 | -136 | -160 | -167 | -146 | -119 |
| 30% Exceedance                              | -101 | -92  | -63  | -68  | -109 | -120 | -118 | -132 | -159 | -167 | -151 | -120 |
| 40% Exceedance                              | -101 | -96  | -70  | -77  | -116 | -124 | -122 | -131 | -159 | -168 | -154 | -125 |
| 50% Exceedance                              | -104 | -102 | -76  | -90  | -120 | -125 | -125 | -132 | -157 | -165 | -156 | -132 |
| 60% Exceedance                              | -163 | -157 | -82  | -115 | -130 | -127 | -130 | -139 | -157 | -167 | -162 | -150 |
| 70% Exceedance                              | -164 | -158 | -97  | -124 | -133 | -126 | -132 | -147 | -156 | -162 | -163 | -155 |
| 80% Exceedance                              | -157 | -154 | -106 | -130 | -145 | -138 | -143 | -152 | -158 | -159 | -157 | -150 |
| 90% Exceedance                              | -148 | -145 | -128 | -141 | -152 | -149 | -160 | -163 | -158 | -150 | -150 | -145 |
| Full Simulation Period Average <sup>a</sup> | -122 | -113 | -80  | -89  | -112 | -121 | -126 | -138 | -153 | -157 | -148 | -132 |
| Wet Water Years (28%)                       | -175 | -170 | -116 | -139 | -155 | -162 | -171 | -179 | -181 | -177 | -175 | -168 |
| Above Normal Years (14%)                    | -150 | -148 | -77  | -85  | -116 | -120 | -119 | -132 | -155 | -167 | -165 | -156 |
| Below Normal Years (18%)                    | -90  | -90  | -72  | -80  | -111 | -111 | -109 | -131 | -154 | -159 | -145 | -110 |
| Dry Water Years (24%)                       | -86  | -80  | -69  | -66  | -95  | -109 | -110 | -119 | -145 | -152 | -129 | -109 |
| Critical Water Years (16%)                  | -89  | -55  | -41  | -49  | -62  | -80  | -94  | -108 | -116 | -117 | -117 | -107 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-3-9a. Banks Pumping Plant South Delta Exports Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 222 | 222 | 221 | 220 | 223 | 225 | 226 | 227 | 227 | 224 | 223 | 223 |
| 20% Exceedance                              | 211 | 212 | 212 | 211 | 215 | 216 | 218 | 219 | 218 | 213 | 210 | 210 |
| 30% Exceedance                              | 207 | 206 | 206 | 207 | 207 | 209 | 210 | 211 | 209 | 208 | 207 | 207 |
| 40% Exceedance                              | 203 | 203 | 203 | 203 | 204 | 206 | 207 | 208 | 206 | 205 | 203 | 204 |
| 50% Exceedance                              | 201 | 201 | 200 | 201 | 202 | 203 | 204 | 204 | 203 | 200 | 200 | 200 |
| 60% Exceedance                              | 197 | 196 | 196 | 195 | 197 | 200 | 201 | 201 | 199 | 198 | 197 | 197 |
| 70% Exceedance                              | 193 | 192 | 191 | 191 | 191 | 193 | 194 | 195 | 193 | 191 | 192 | 193 |
| 80% Exceedance                              | 186 | 186 | 185 | 186 | 186 | 188 | 189 | 190 | 188 | 187 | 186 | 186 |
| 90% Exceedance                              | 175 | 176 | 174 | 175 | 176 | 178 | 179 | 178 | 177 | 177 | 177 | 177 |
| Full Simulation Period Average <sup>a</sup> | 195 | 195 | 194 | 195 | 196 | 198 | 199 | 200 | 199 | 197 | 196 | 197 |
| Wet Water Years (28%)                       | 203 | 203 | 201 | 201 | 202 | 205 | 206 | 206 | 206 | 206 | 205 | 204 |
| Above Normal Years (14%)                    | 181 | 181 | 181 | 190 | 192 | 194 | 196 | 197 | 197 | 196 | 194 | 193 |
| Below Normal Years (18%)                    | 193 | 193 | 192 | 195 | 196 | 197 | 199 | 199 | 198 | 195 | 193 | 193 |
| Dry Water Years (24%)                       | 193 | 193 | 193 | 193 | 195 | 196 | 198 | 198 | 196 | 193 | 192 | 193 |
| Critical Water Years (16%)                  | 199 | 200 | 201 | 190 | 192 | 193 | 194 | 195 | 194 | 192 | 193 | 197 |

**Table F.2.7-3-9b. Banks Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 118 | 146 | 168 | 178 | 149 | 96  | 91  | 82  | 78  | 82  | 102 | 113 |
| 20% Exceedance                              | 112 | 127 | 156 | 159 | 124 | 88  | 80  | 71  | 53  | 45  | 65  | 92  |
| 30% Exceedance                              | 107 | 119 | 146 | 147 | 97  | 80  | 73  | 66  | 47  | 41  | 55  | 85  |
| 40% Exceedance                              | 104 | 106 | 137 | 134 | 89  | 73  | 68  | 63  | 45  | 36  | 51  | 80  |
| 50% Exceedance                              | 95  | 93  | 127 | 110 | 83  | 69  | 67  | 59  | 43  | 34  | 44  | 70  |
| 60% Exceedance                              | 36  | 40  | 111 | 80  | 68  | 64  | 62  | 55  | 39  | 31  | 34  | 50  |
| 70% Exceedance                              | 30  | 33  | 93  | 66  | 58  | 59  | 51  | 43  | 36  | 29  | 30  | 41  |
| 80% Exceedance                              | 29  | 31  | 79  | 55  | 40  | 49  | 44  | 36  | 29  | 28  | 29  | 37  |
| 90% Exceedance                              | 28  | 30  | 48  | 34  | 25  | 29  | 22  | 15  | 19  | 27  | 28  | 34  |
| Full Simulation Period Average <sup>a</sup> | 75  | 82  | 116 | 107 | 83  | 69  | 63  | 55  | 46  | 43  | 52  | 68  |
| Wet Water Years (28%)                       | 29  | 33  | 84  | 61  | 47  | 41  | 34  | 26  | 26  | 29  | 30  | 36  |
| Above Normal Years (14%)                    | 32  | 33  | 102 | 105 | 76  | 65  | 62  | 52  | 39  | 28  | 29  | 40  |
| Below Normal Years (18%)                    | 103 | 102 | 121 | 112 | 83  | 72  | 69  | 57  | 42  | 34  | 49  | 83  |
| Dry Water Years (24%)                       | 105 | 115 | 127 | 134 | 103 | 79  | 71  | 65  | 46  | 41  | 59  | 80  |
| Critical Water Years (16%)                  | 121 | 147 | 165 | 143 | 122 | 100 | 95  | 91  | 90  | 94  | 102 | 112 |

**Table F.2.7-3-9c. Banks Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -104 | -76  | -53  | -42  | -74  | -129 | -135 | -145 | -149 | -142 | -122 | -109 |
| 20% Exceedance                              | -99  | -84  | -56  | -51  | -91  | -128 | -138 | -148 | -165 | -168 | -145 | -118 |
| 30% Exceedance                              | -100 | -87  | -61  | -60  | -110 | -128 | -137 | -145 | -162 | -167 | -152 | -122 |
| 40% Exceedance                              | -100 | -97  | -66  | -69  | -115 | -133 | -139 | -145 | -161 | -168 | -152 | -124 |
| 50% Exceedance                              | -106 | -107 | -73  | -91  | -119 | -134 | -137 | -145 | -161 | -166 | -156 | -130 |
| 60% Exceedance                              | -161 | -157 | -85  | -115 | -130 | -136 | -139 | -146 | -160 | -167 | -163 | -147 |
| 70% Exceedance                              | -163 | -158 | -97  | -125 | -133 | -134 | -143 | -151 | -157 | -163 | -163 | -153 |
| 80% Exceedance                              | -157 | -154 | -106 | -130 | -145 | -138 | -145 | -154 | -159 | -159 | -157 | -149 |
| 90% Exceedance                              | -148 | -146 | -126 | -142 | -152 | -149 | -157 | -164 | -158 | -150 | -149 | -143 |
| Full Simulation Period Average <sup>a</sup> | -120 | -113 | -79  | -88  | -113 | -130 | -137 | -145 | -153 | -154 | -145 | -129 |
| Wet Water Years (28%)                       | -175 | -170 | -117 | -141 | -155 | -164 | -172 | -181 | -181 | -177 | -175 | -168 |
| Above Normal Years (14%)                    | -150 | -148 | -79  | -85  | -116 | -129 | -133 | -145 | -158 | -168 | -165 | -153 |
| Below Normal Years (18%)                    | -91  | -91  | -71  | -82  | -113 | -125 | -130 | -142 | -156 | -160 | -144 | -110 |
| Dry Water Years (24%)                       | -88  | -79  | -66  | -59  | -92  | -118 | -127 | -133 | -150 | -152 | -133 | -112 |
| Critical Water Years (16%)                  | -78  | -52  | -36  | -47  | -69  | -93  | -100 | -104 | -104 | -98  | -92  | -85  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-3-10a. Banks Pumping Plant South Delta Exports Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 222 | 222 | 221 | 220 | 223 | 225 | 226 | 227 | 227 | 224 | 223 | 223 |
| 20% Exceedance                              | 211 | 212 | 212 | 211 | 215 | 216 | 218 | 219 | 218 | 213 | 210 | 210 |
| 30% Exceedance                              | 207 | 206 | 206 | 207 | 207 | 209 | 210 | 211 | 209 | 208 | 207 | 207 |
| 40% Exceedance                              | 203 | 203 | 203 | 203 | 204 | 206 | 207 | 208 | 206 | 205 | 203 | 204 |
| 50% Exceedance                              | 201 | 201 | 200 | 201 | 202 | 203 | 204 | 204 | 203 | 200 | 200 | 200 |
| 60% Exceedance                              | 197 | 196 | 196 | 195 | 197 | 200 | 201 | 201 | 199 | 198 | 197 | 197 |
| 70% Exceedance                              | 193 | 192 | 191 | 191 | 191 | 193 | 194 | 195 | 193 | 191 | 192 | 193 |
| 80% Exceedance                              | 186 | 186 | 185 | 186 | 186 | 188 | 189 | 190 | 188 | 187 | 186 | 186 |
| 90% Exceedance                              | 175 | 176 | 174 | 175 | 176 | 178 | 179 | 178 | 177 | 177 | 177 | 177 |
| Full Simulation Period Average <sup>a</sup> | 195 | 195 | 194 | 195 | 196 | 198 | 199 | 200 | 199 | 197 | 196 | 197 |
| Wet Water Years (28%)                       | 203 | 203 | 201 | 201 | 202 | 205 | 206 | 206 | 206 | 206 | 205 | 204 |
| Above Normal Years (14%)                    | 181 | 181 | 181 | 190 | 192 | 194 | 196 | 197 | 197 | 196 | 194 | 193 |
| Below Normal Years (18%)                    | 193 | 193 | 192 | 195 | 196 | 197 | 199 | 199 | 198 | 195 | 193 | 193 |
| Dry Water Years (24%)                       | 193 | 193 | 193 | 193 | 195 | 196 | 198 | 198 | 196 | 193 | 192 | 193 |
| Critical Water Years (16%)                  | 199 | 200 | 201 | 190 | 192 | 193 | 194 | 195 | 194 | 192 | 193 | 197 |

**Table F.2.7-3-10b. Banks Pumping Plant South Delta Exports Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 120 | 144 | 167 | 182 | 146 | 98  | 94  | 88  | 80  | 91  | 106 | 114 |
| 20% Exceedance                              | 110 | 124 | 159 | 156 | 127 | 87  | 79  | 82  | 54  | 45  | 65  | 94  |
| 30% Exceedance                              | 108 | 118 | 149 | 142 | 97  | 79  | 74  | 76  | 49  | 39  | 54  | 84  |
| 40% Exceedance                              | 101 | 110 | 139 | 129 | 89  | 73  | 69  | 69  | 47  | 36  | 48  | 78  |
| 50% Exceedance                              | 93  | 99  | 129 | 112 | 81  | 68  | 67  | 66  | 46  | 34  | 39  | 65  |
| 60% Exceedance                              | 34  | 40  | 112 | 80  | 65  | 63  | 63  | 62  | 43  | 31  | 33  | 45  |
| 70% Exceedance                              | 30  | 34  | 96  | 66  | 55  | 58  | 57  | 55  | 40  | 29  | 29  | 35  |
| 80% Exceedance                              | 28  | 31  | 79  | 55  | 39  | 50  | 43  | 45  | 34  | 28  | 28  | 34  |
| 90% Exceedance                              | 27  | 30  | 49  | 34  | 26  | 28  | 18  | 14  | 20  | 26  | 27  | 32  |
| Full Simulation Period Average <sup>a</sup> | 74  | 82  | 117 | 106 | 83  | 68  | 63  | 61  | 48  | 43  | 51  | 66  |
| Wet Water Years (28%)                       | 28  | 33  | 85  | 63  | 48  | 42  | 34  | 30  | 28  | 29  | 29  | 34  |
| Above Normal Years (14%)                    | 31  | 33  | 104 | 106 | 76  | 66  | 66  | 65  | 43  | 28  | 28  | 36  |
| Below Normal Years (18%)                    | 102 | 104 | 123 | 114 | 82  | 71  | 69  | 65  | 45  | 34  | 46  | 82  |
| Dry Water Years (24%)                       | 103 | 113 | 126 | 130 | 102 | 77  | 71  | 71  | 48  | 39  | 57  | 77  |
| Critical Water Years (16%)                  | 122 | 146 | 170 | 140 | 123 | 100 | 94  | 94  | 93  | 97  | 105 | 115 |

**Table F.2.7-3-10c. Banks Pumping Plant South Delta Exports Chloride, NAA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct  | Nov  | Dec  | Jan  | Feb  | Mar  | Apr  | May  | Jun  | Jul  | Aug  | Sep  |
|---------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| 10% Exceedance                              | -102 | -78  | -54  | -38  | -77  | -127 | -132 | -139 | -147 | -134 | -117 | -109 |
| 20% Exceedance                              | -101 | -88  | -54  | -54  | -88  | -129 | -140 | -137 | -164 | -168 | -145 | -117 |
| 30% Exceedance                              | -99  | -88  | -58  | -64  | -110 | -129 | -136 | -135 | -160 | -169 | -153 | -123 |
| 40% Exceedance                              | -103 | -92  | -64  | -74  | -115 | -133 | -138 | -139 | -159 | -169 | -156 | -126 |
| 50% Exceedance                              | -108 | -101 | -71  | -89  | -121 | -135 | -137 | -138 | -157 | -166 | -160 | -136 |
| 60% Exceedance                              | -163 | -156 | -84  | -115 | -132 | -137 | -138 | -139 | -156 | -167 | -164 | -152 |
| 70% Exceedance                              | -163 | -158 | -95  | -125 | -136 | -135 | -137 | -140 | -153 | -163 | -163 | -158 |
| 80% Exceedance                              | -158 | -154 | -106 | -131 | -146 | -138 | -146 | -145 | -154 | -159 | -158 | -152 |
| 90% Exceedance                              | -148 | -145 | -126 | -141 | -151 | -150 | -160 | -164 | -157 | -151 | -150 | -145 |
| Full Simulation Period Average <sup>a</sup> | -121 | -113 | -77  | -88  | -113 | -130 | -136 | -139 | -151 | -154 | -145 | -130 |
| Wet Water Years (28%)                       | -175 | -170 | -115 | -138 | -155 | -163 | -172 | -176 | -179 | -177 | -176 | -169 |
| Above Normal Years (14%)                    | -150 | -148 | -77  | -84  | -117 | -128 | -129 | -131 | -154 | -167 | -166 | -157 |
| Below Normal Years (18%)                    | -92  | -89  | -70  | -81  | -114 | -126 | -129 | -134 | -153 | -160 | -147 | -111 |
| Dry Water Years (24%)                       | -90  | -80  | -67  | -63  | -93  | -119 | -127 | -128 | -148 | -154 | -135 | -116 |
| Critical Water Years (16%)                  | -77  | -53  | -31  | -51  | -69  | -93  | -100 | -101 | -100 | -95  | -88  | -82  |

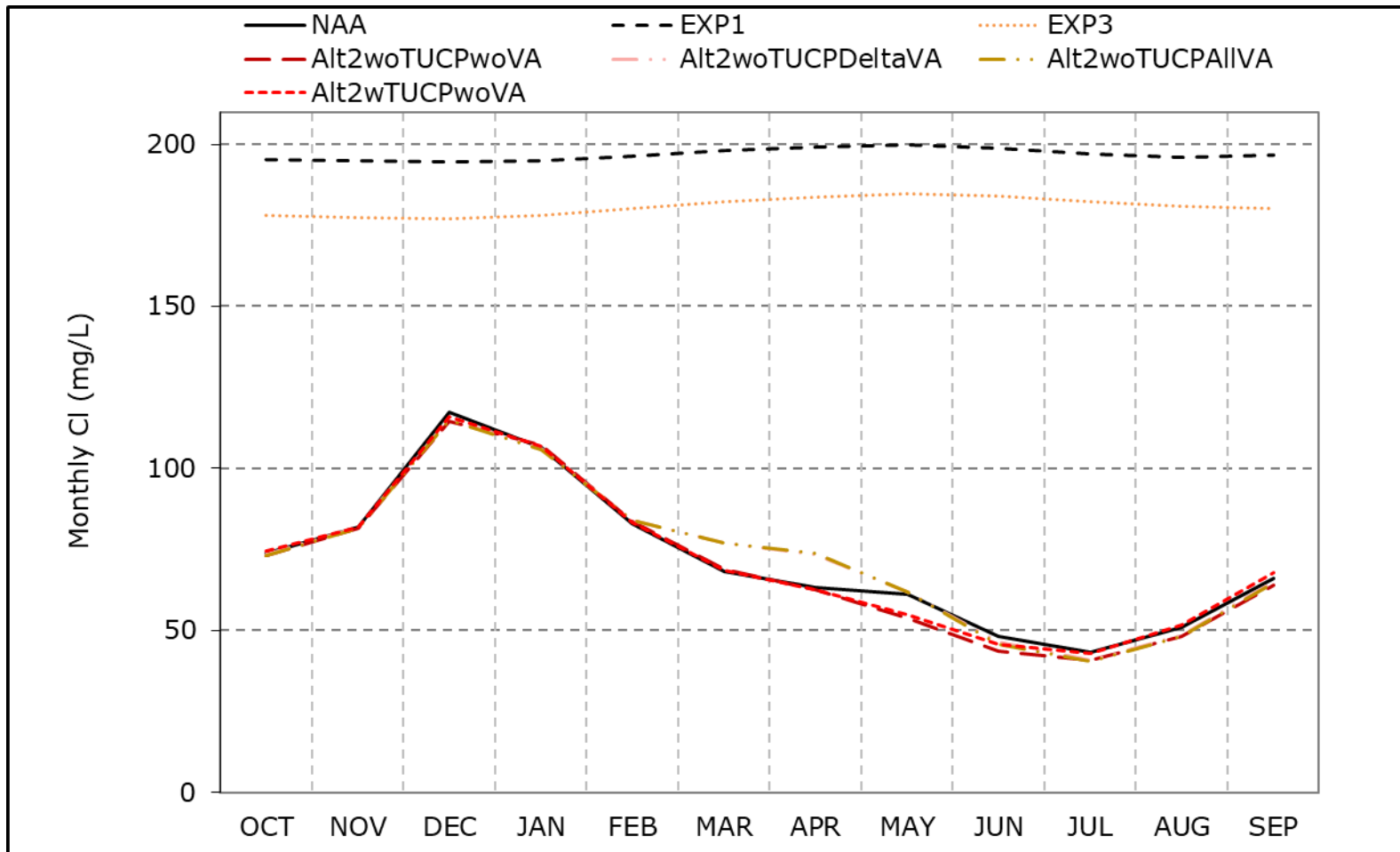
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.7-3-1. Banks Pumping Plant South Delta Exports Chloride, Long-Term Average Cl**

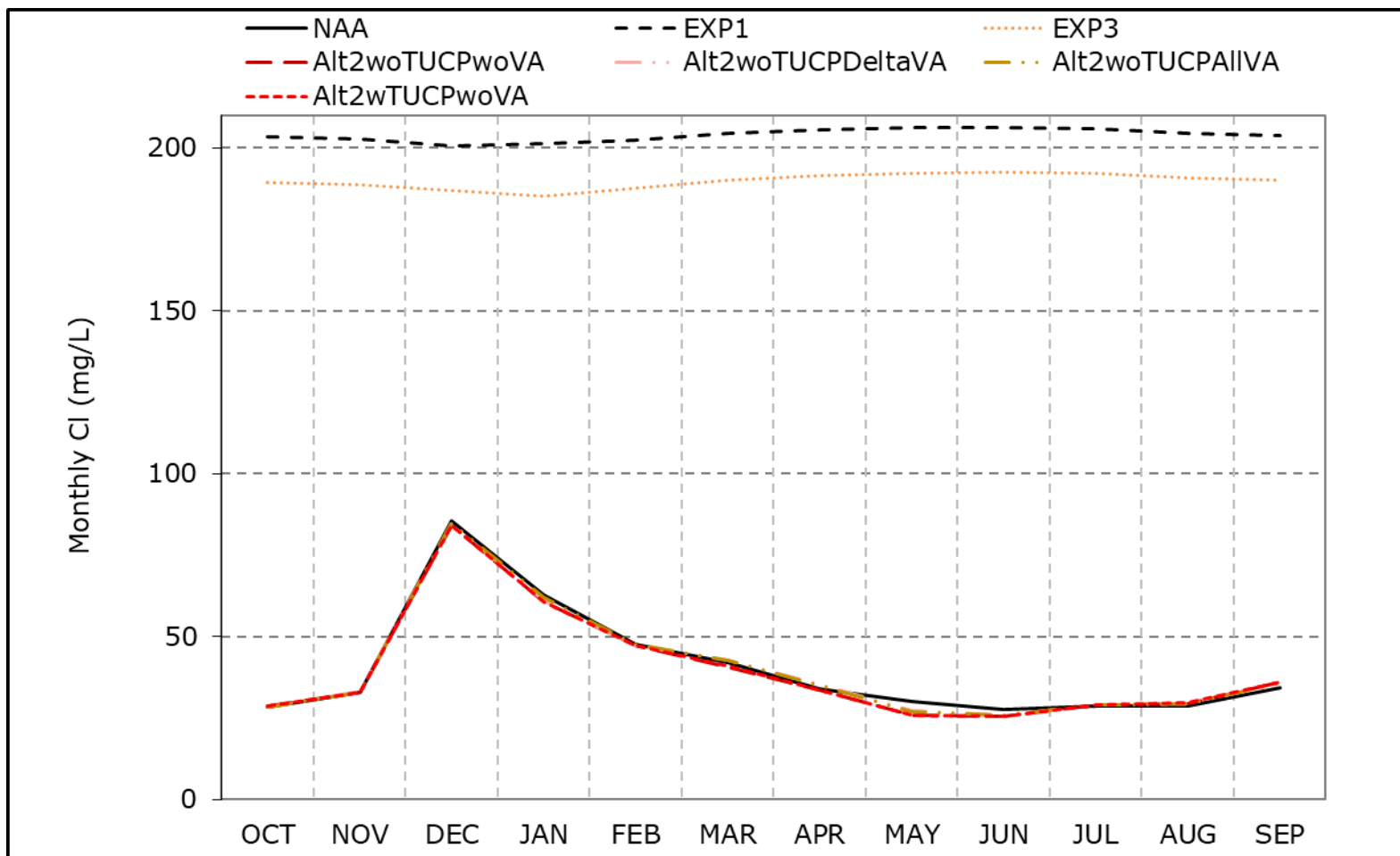


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-2. Banks Pumping Plant South Delta Exports Chloride, Wet Year Average Cl**

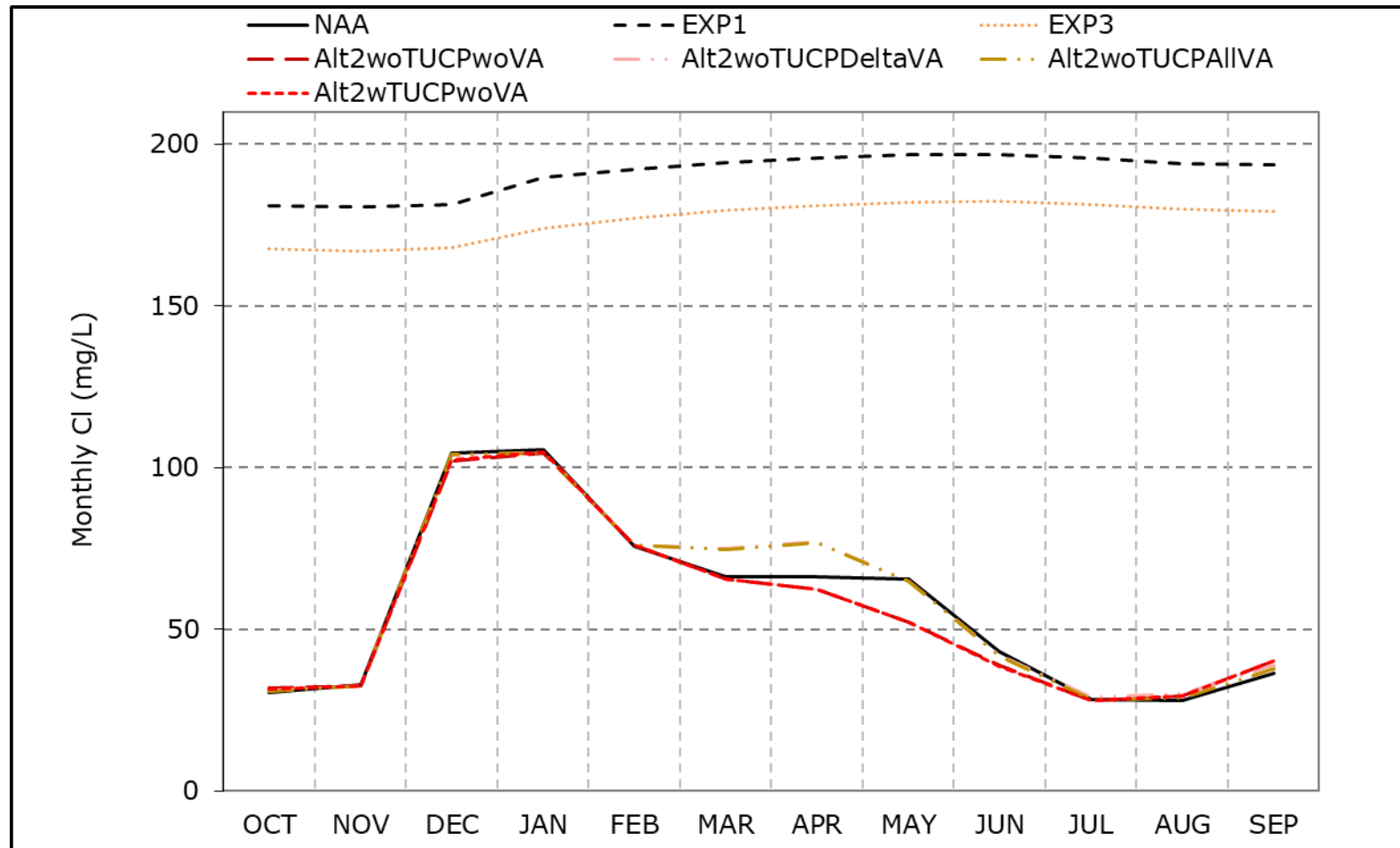


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

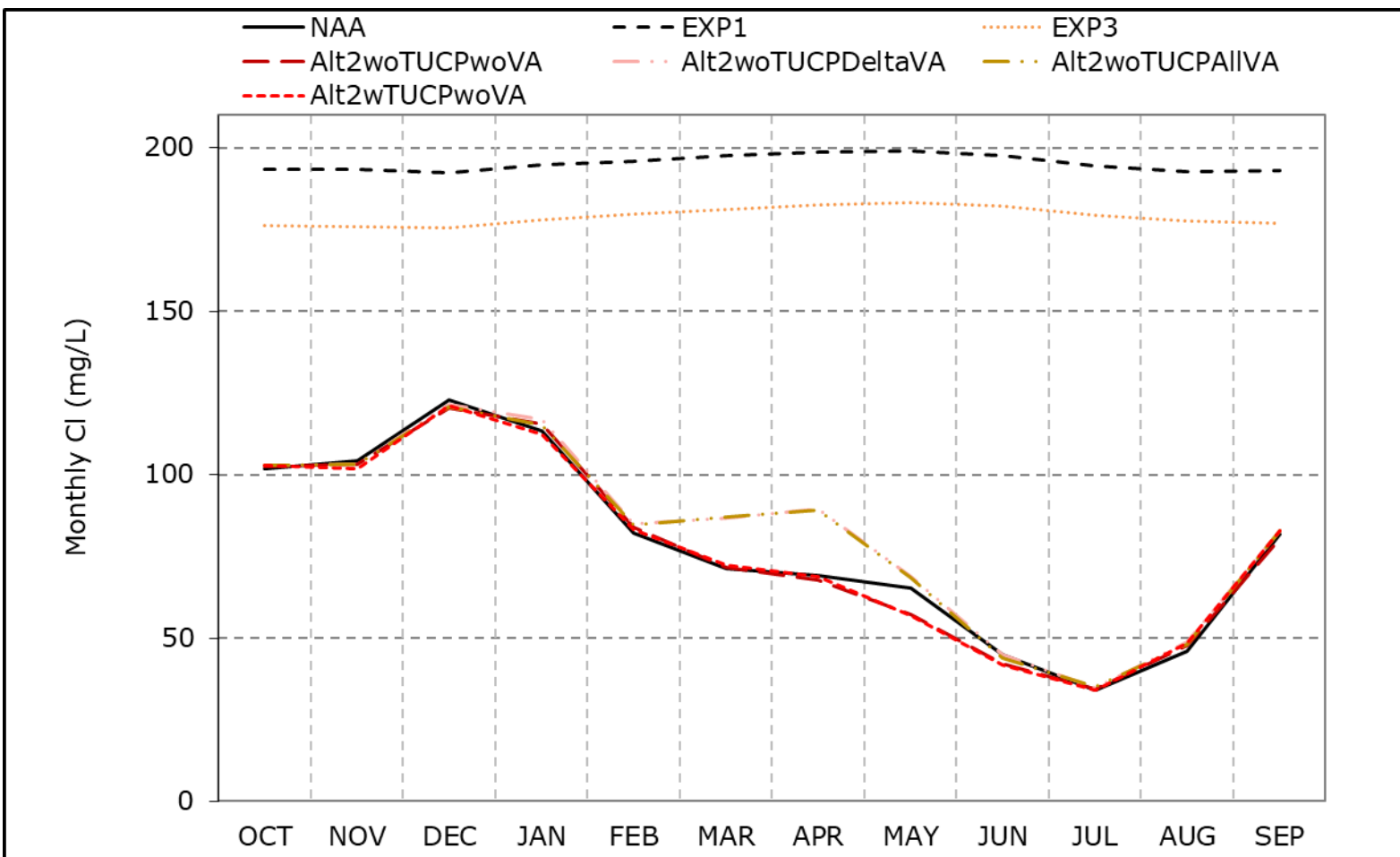
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-3. Banks Pumping Plant South Delta Exports Chloride, Above Normal Year Average Cl**



\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).  
 \*These results are displayed with calendar year - year type sorting.  
 \*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-4. Banks Pumping Plant South Delta Exports Chloride, Below Normal Year Average Cl**

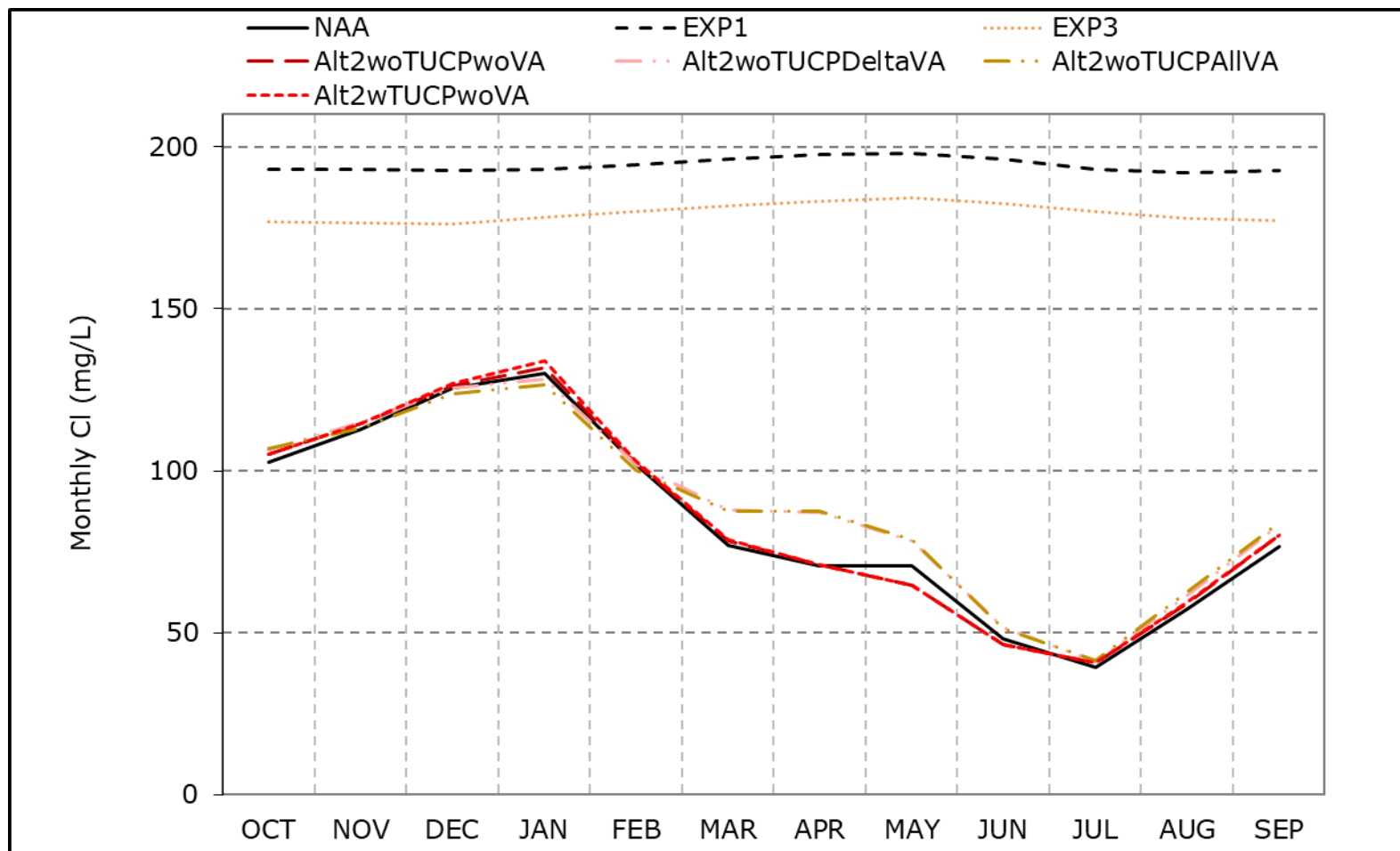


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-5. Banks Pumping Plant South Delta Exports Chloride, Dry Year Average Cl**



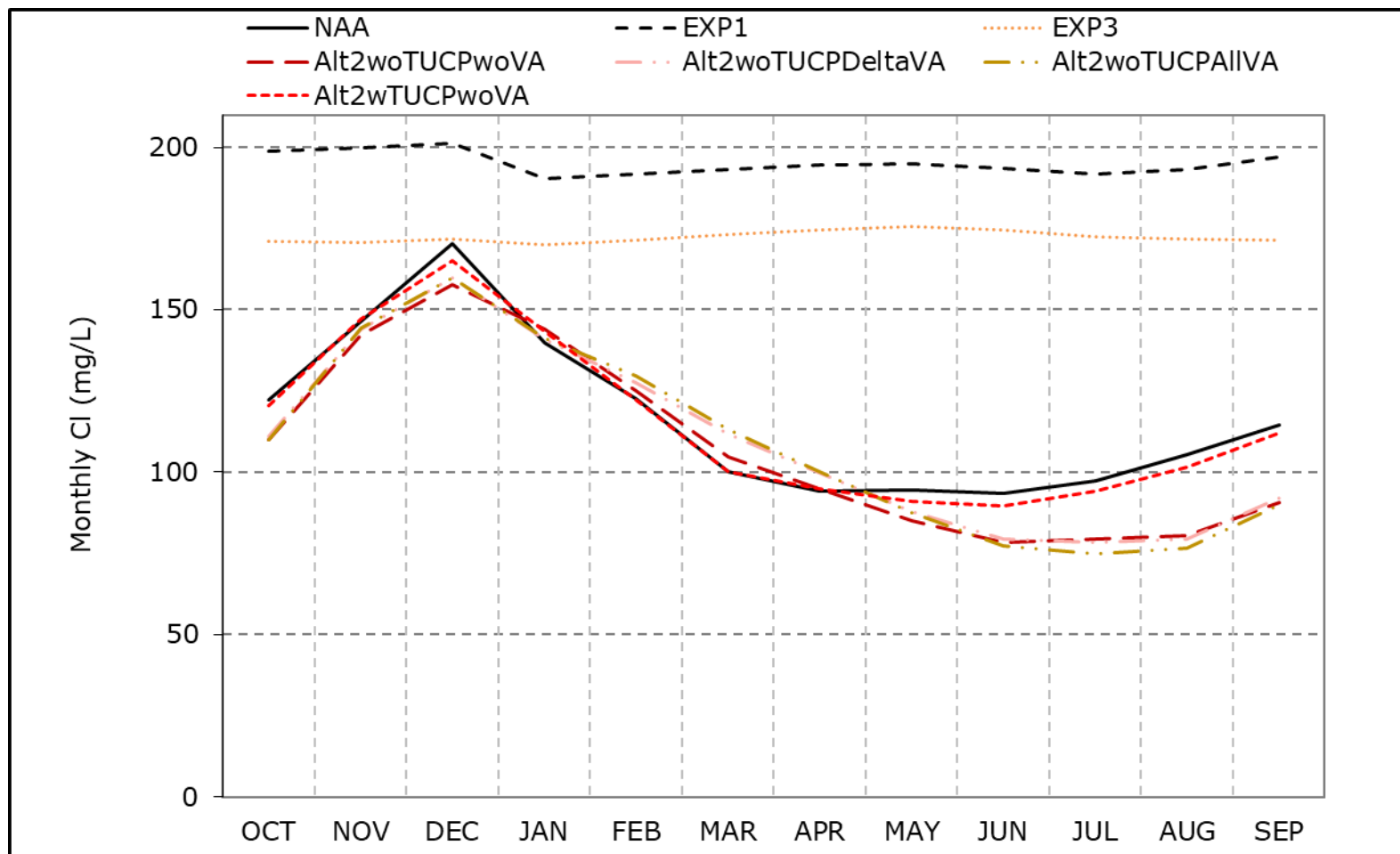
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.7-3-6. Banks Pumping Plant South Delta Exports Chloride, Critical Year Average Cl**

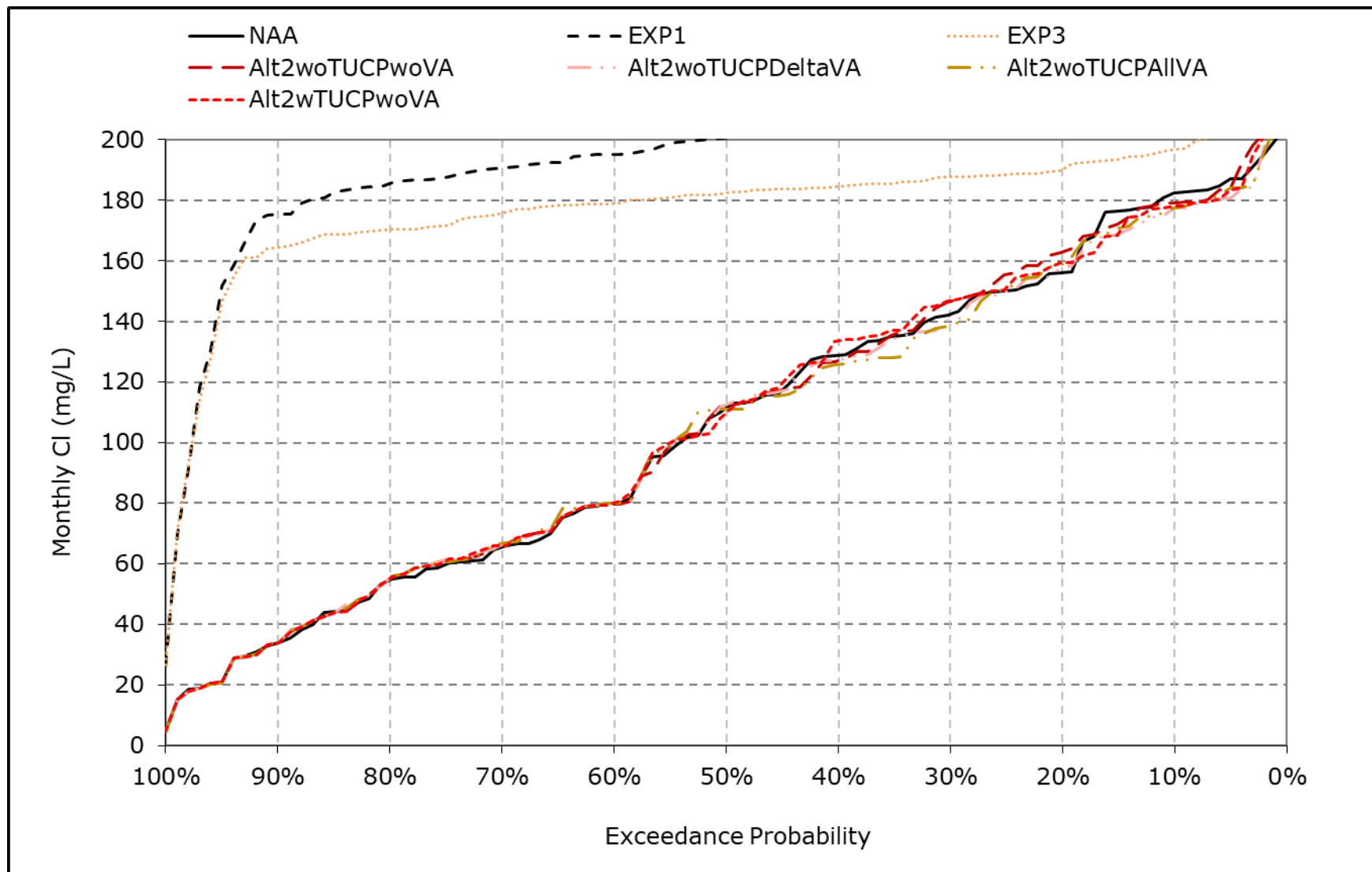


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

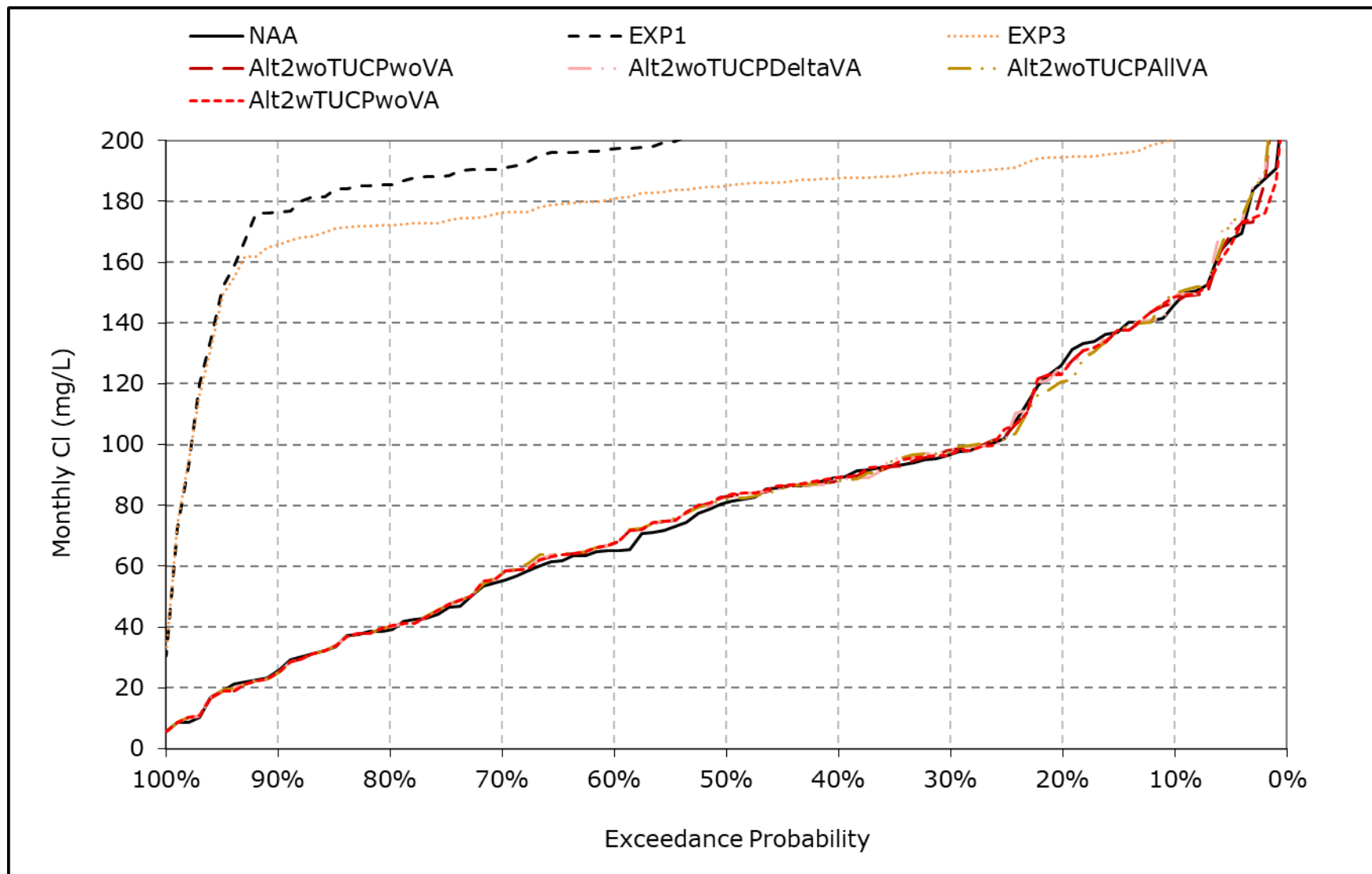
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-7. Banks Pumping Plant South Delta Exports Chloride, January CI**



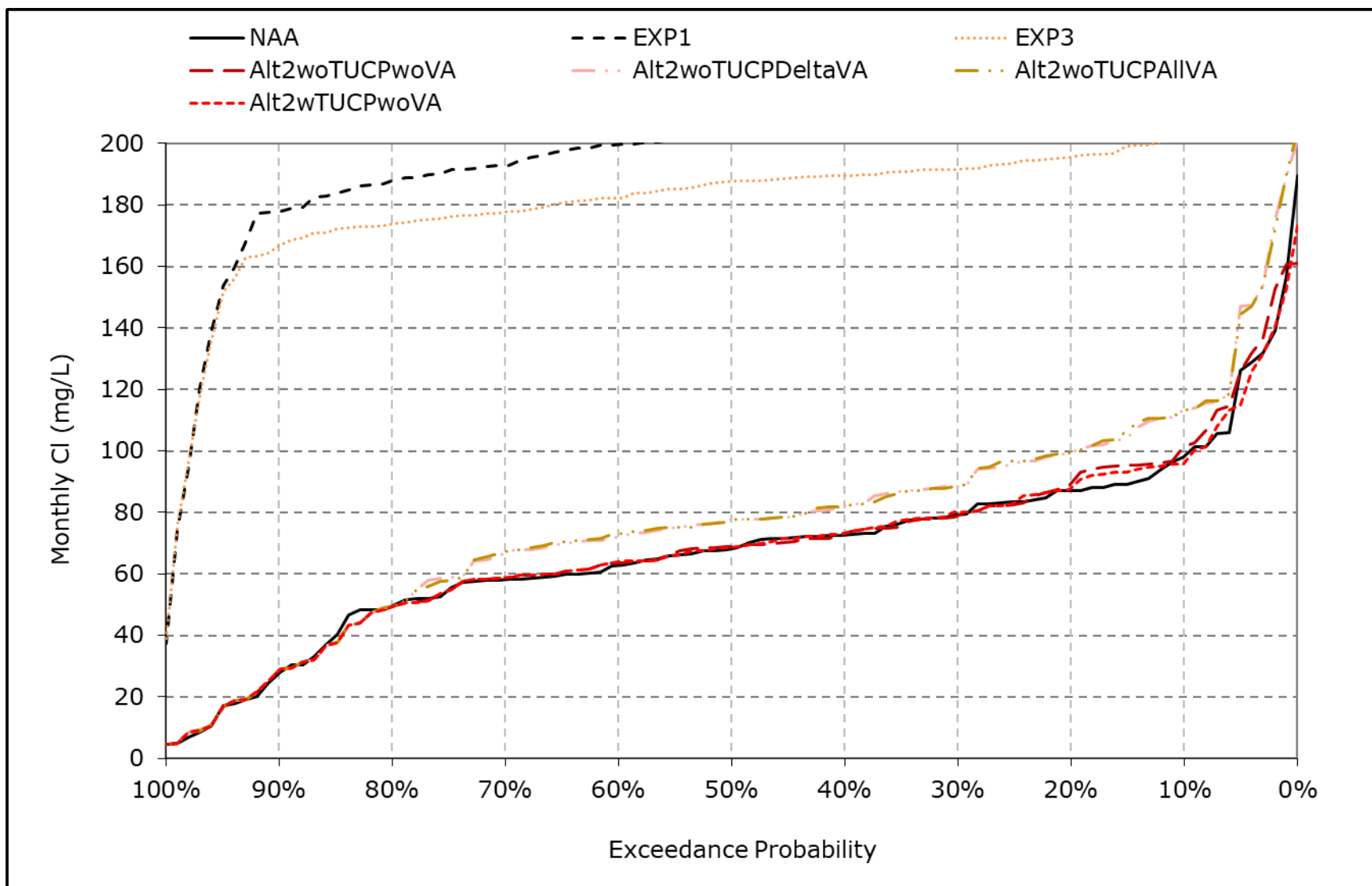
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-8. Banks Pumping Plant South Delta Exports Chloride, February CI**



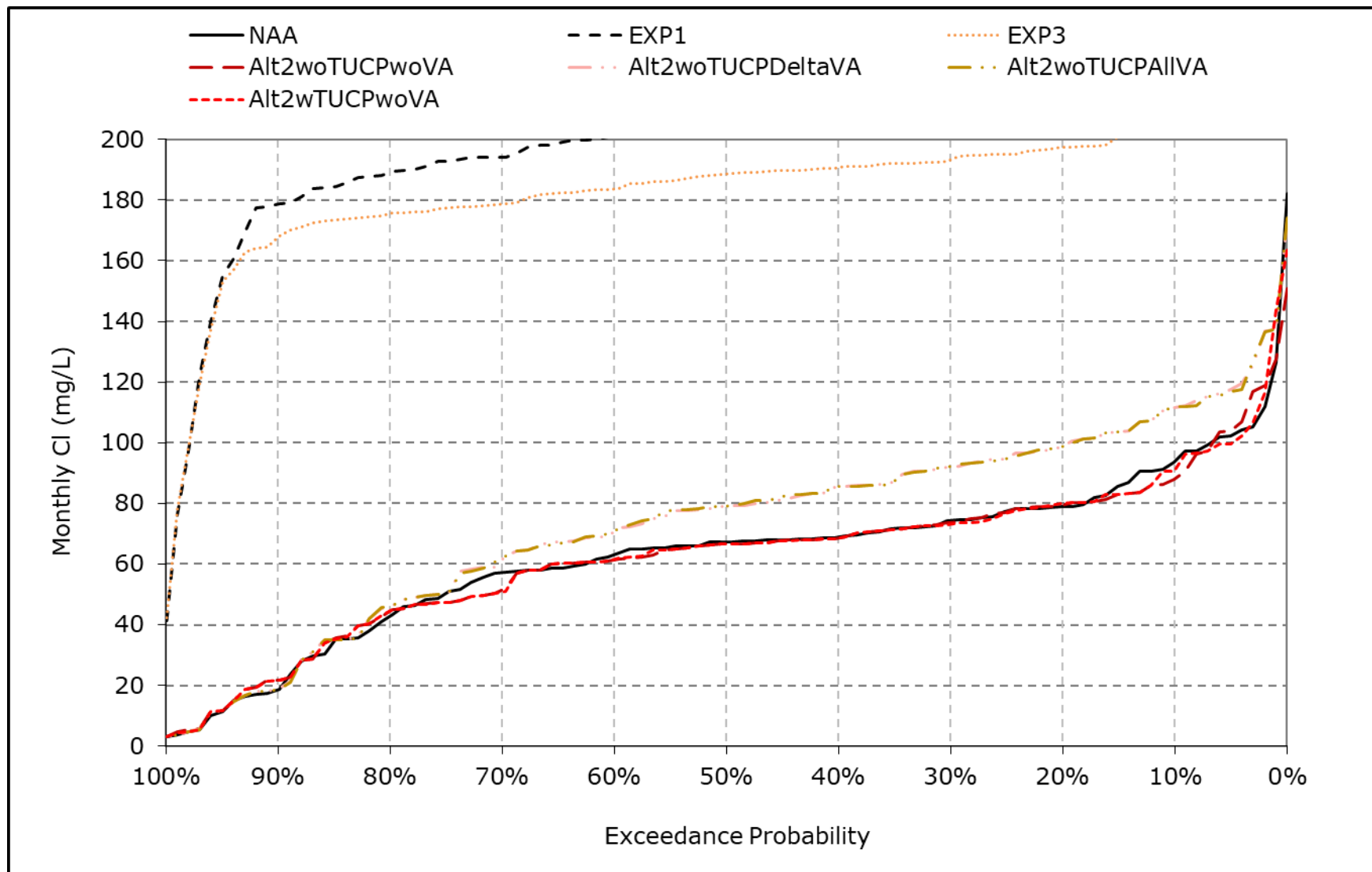
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-9. Banks Pumping Plant South Delta Exports Chloride, March CI**



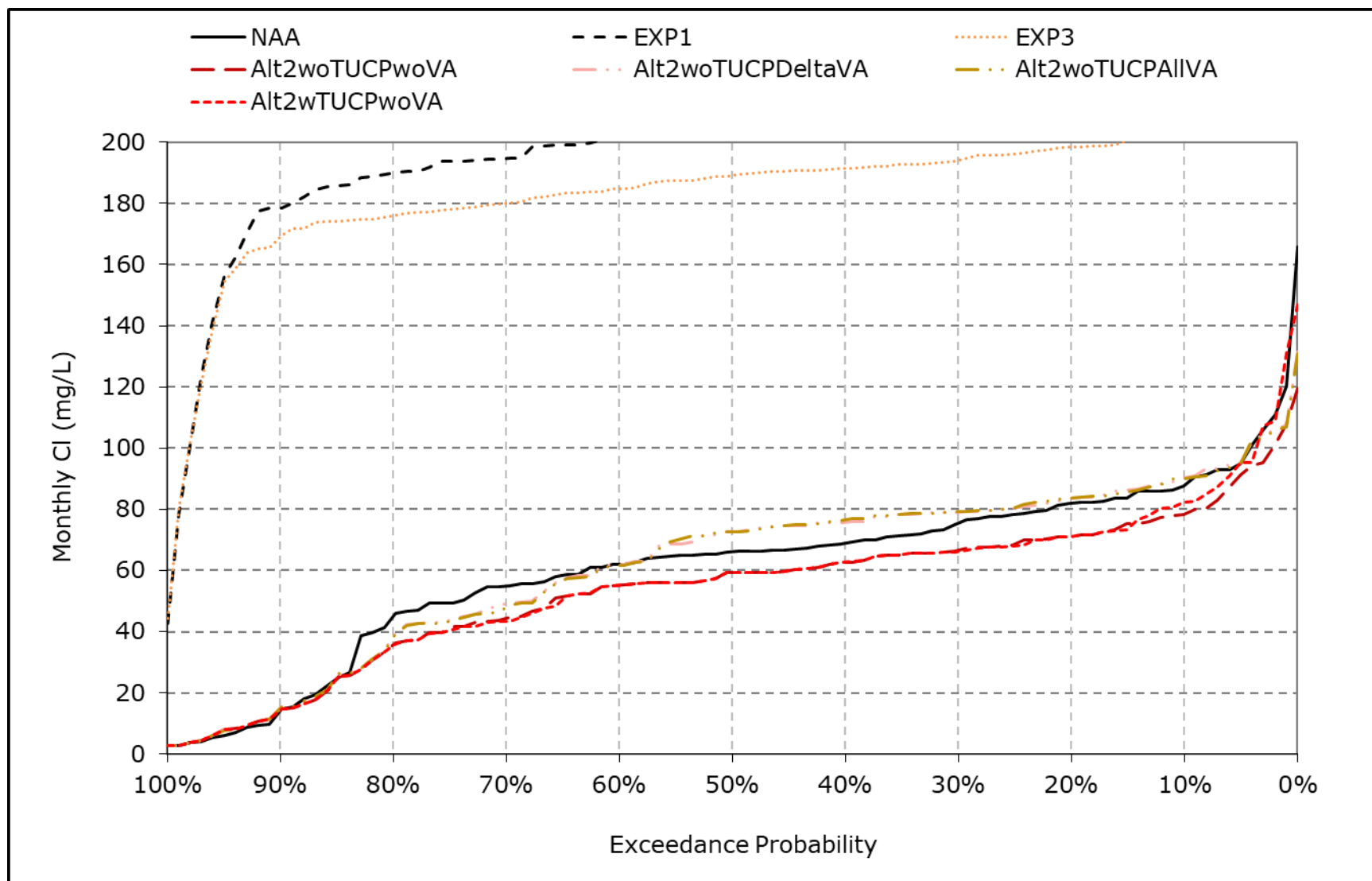
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-10. Banks Pumping Plant South Delta Exports Chloride, April CI**



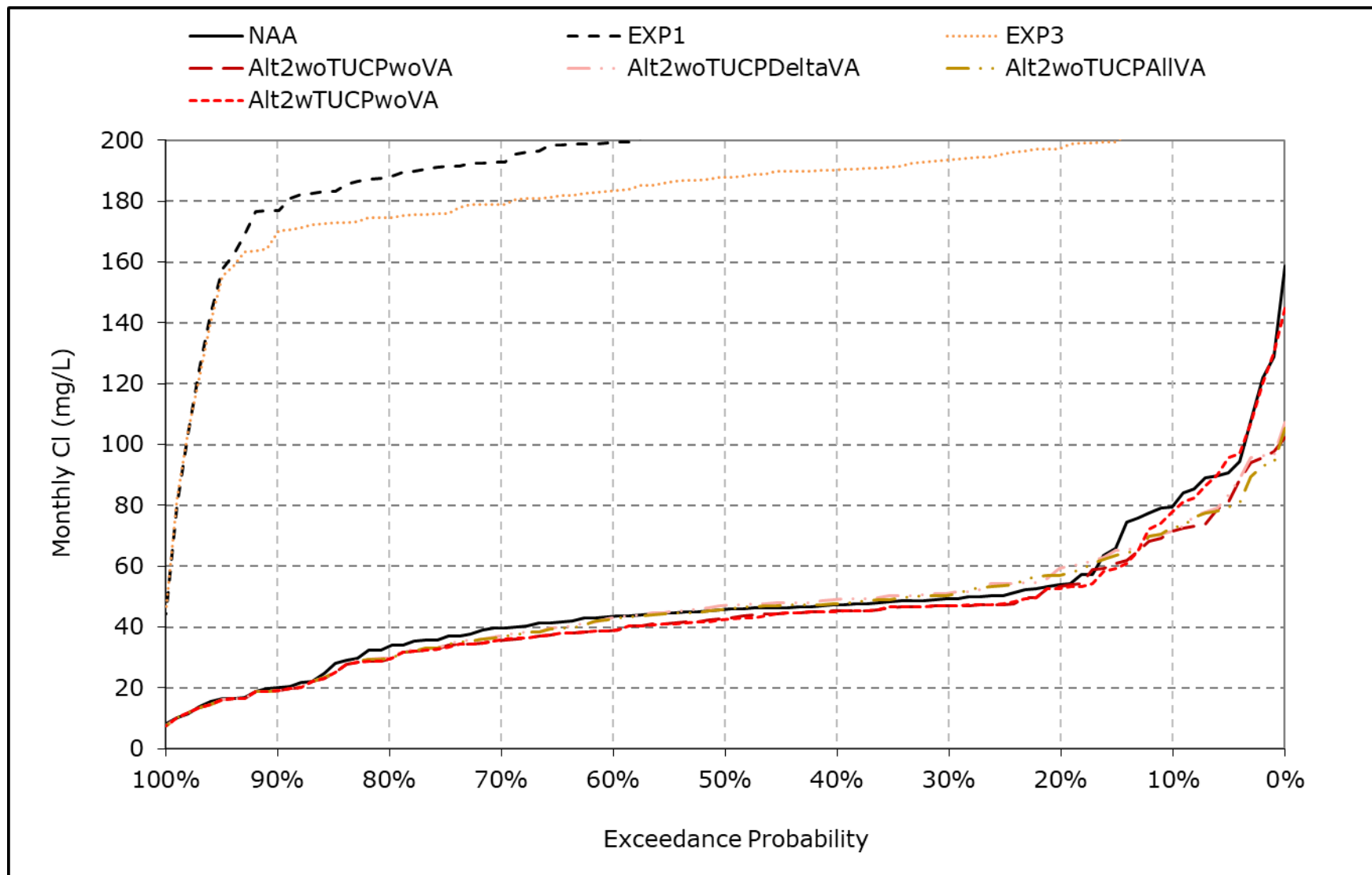
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-11. Banks Pumping Plant South Delta Exports Chloride, May CI**



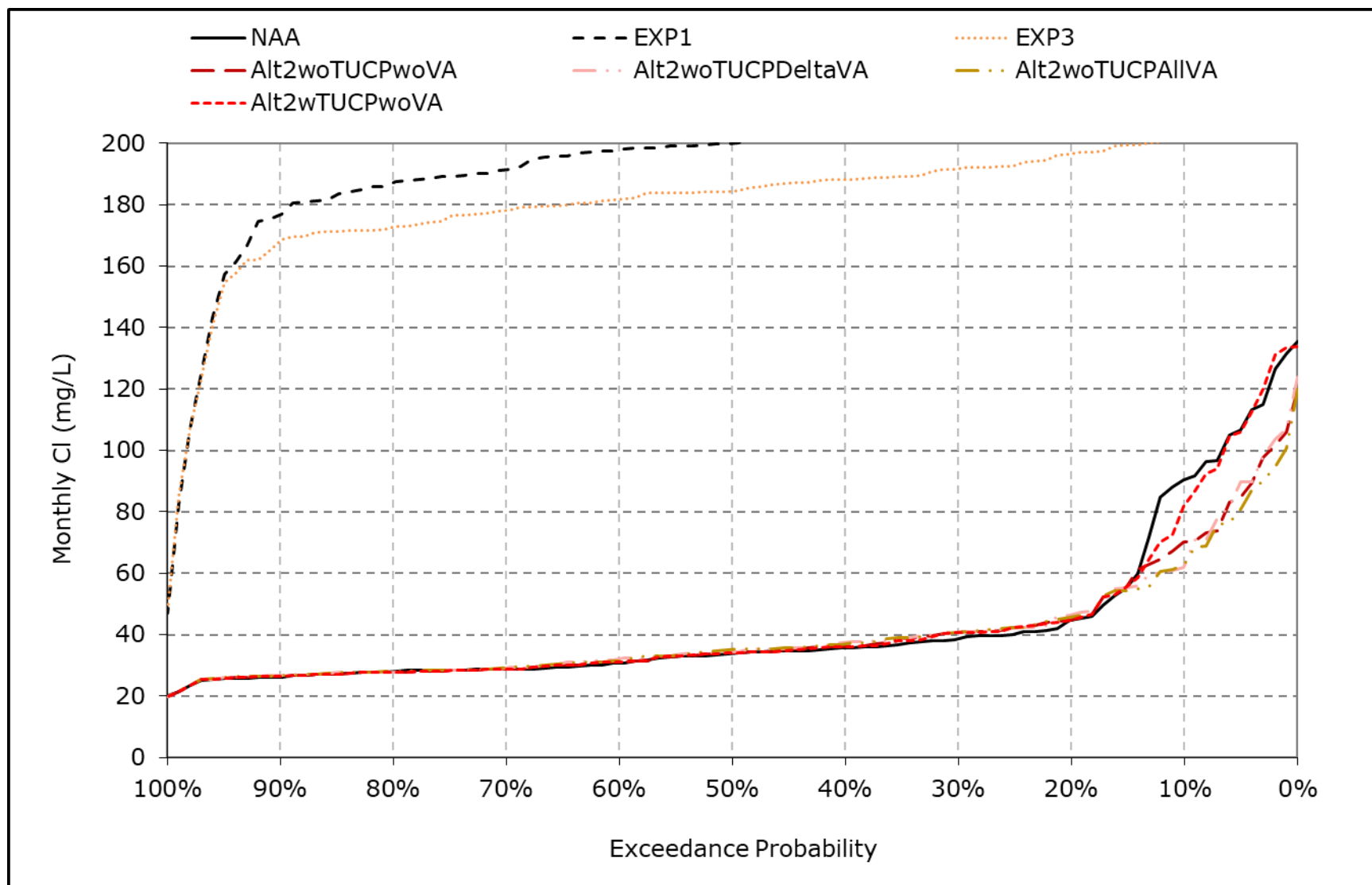
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-12. Banks Pumping Plant South Delta Exports Chloride, June CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

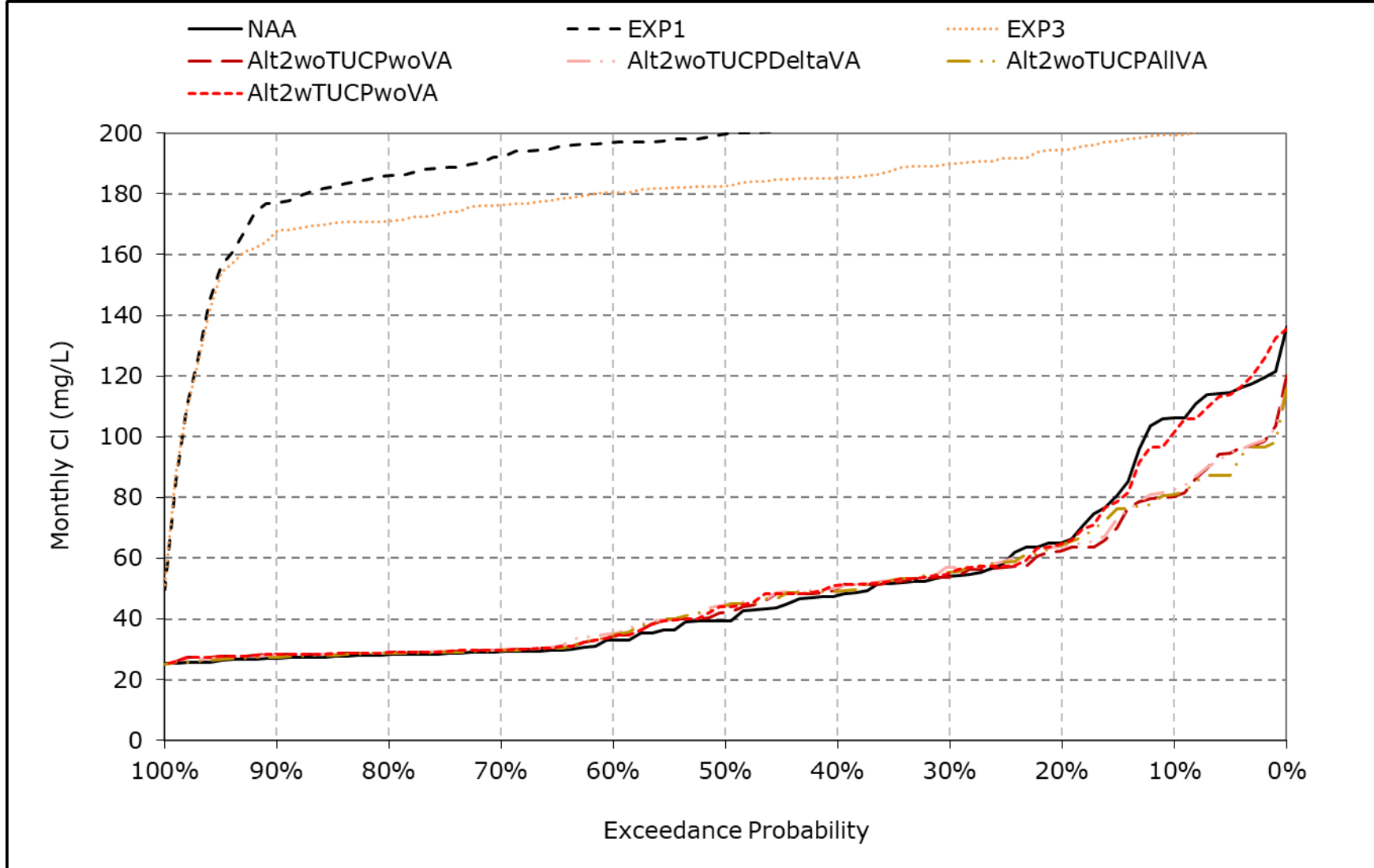
**Figure F.2.7-3-13. Banks Pumping Plant South Delta Exports Chloride, July CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

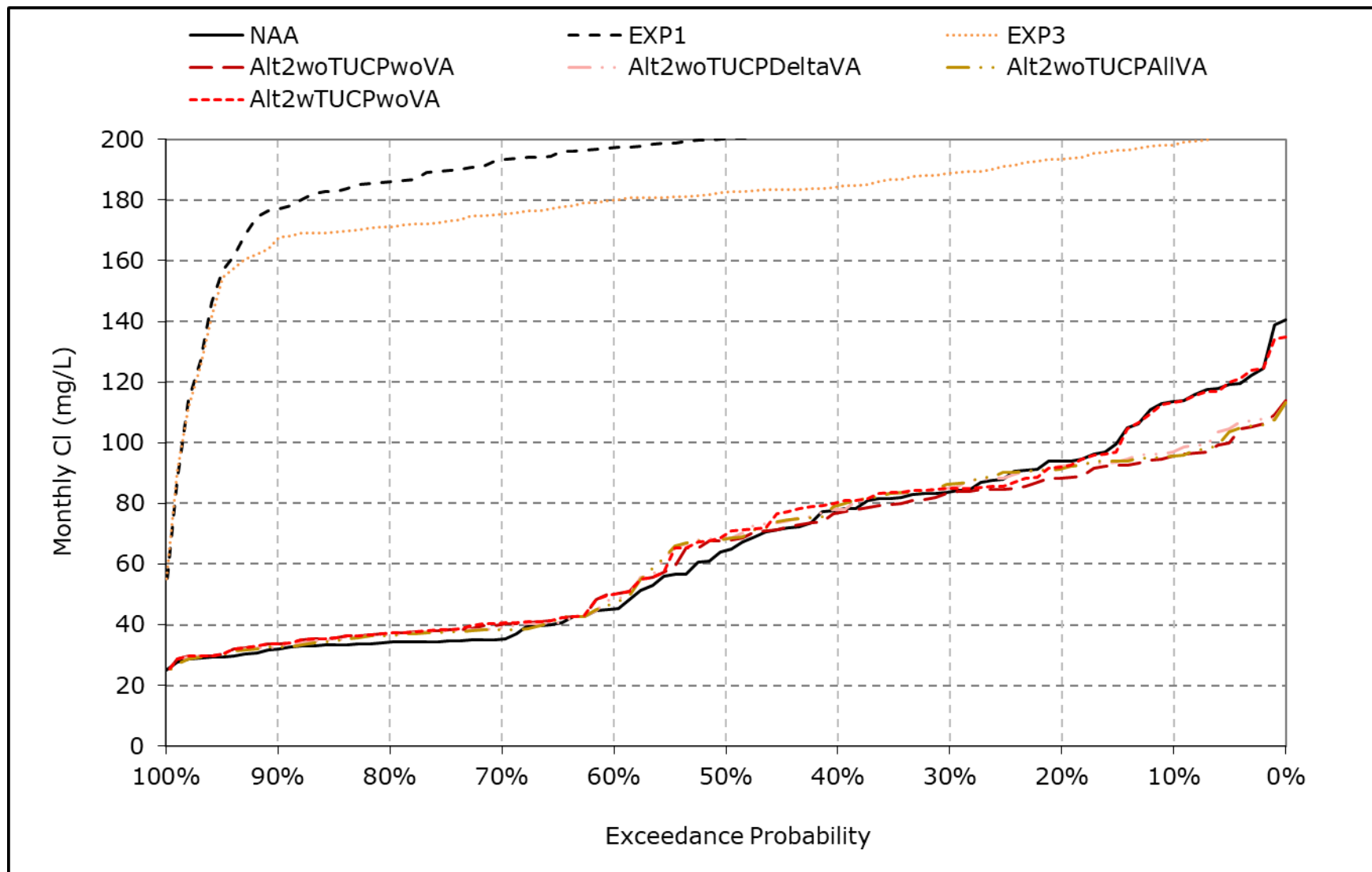


**Figure F.2.7-3-14. Banks Pumping Plant South Delta Exports Chloride, August CI**



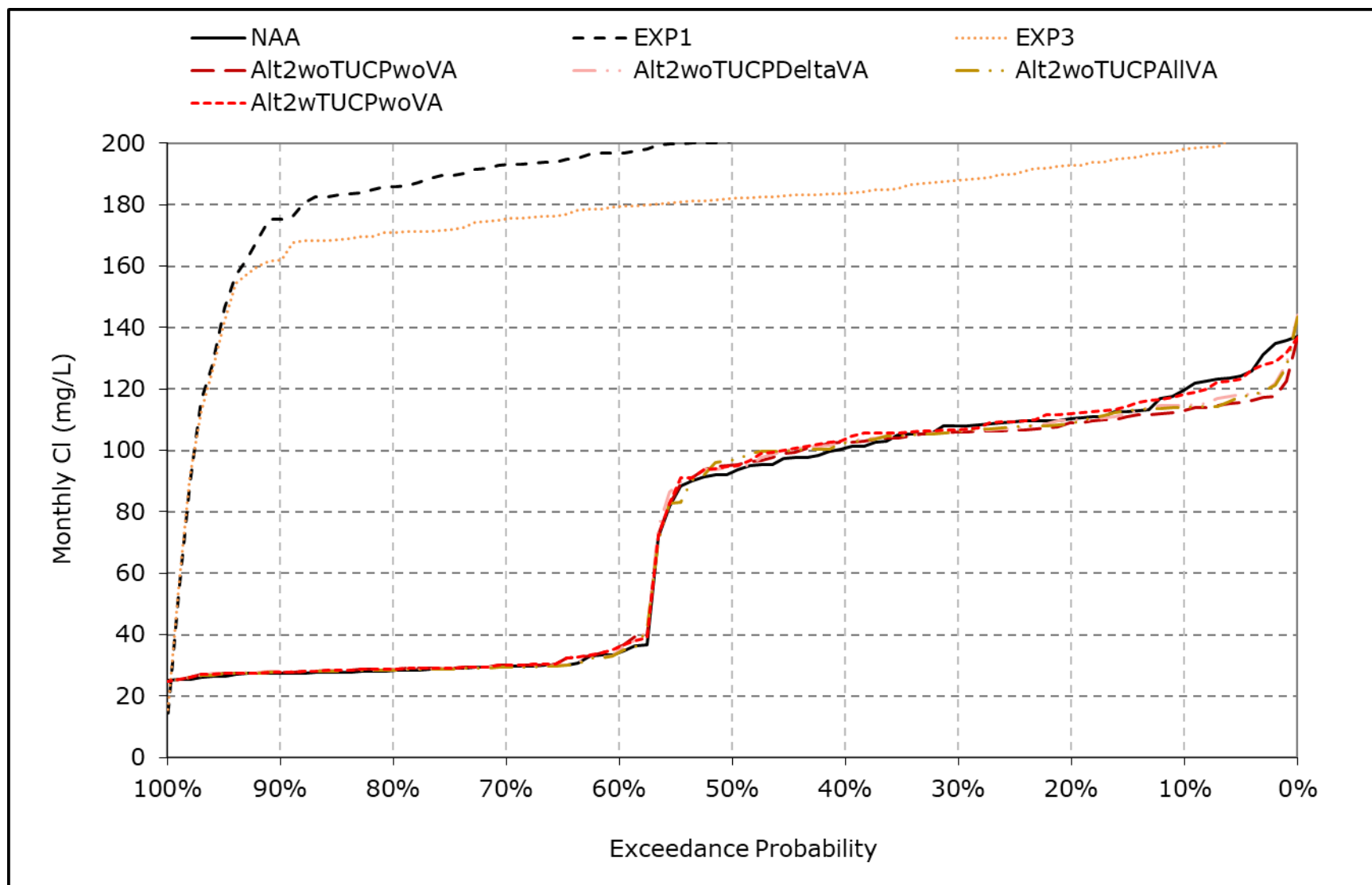
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-15. Banks Pumping Plant South Delta Exports Chloride, September CI**



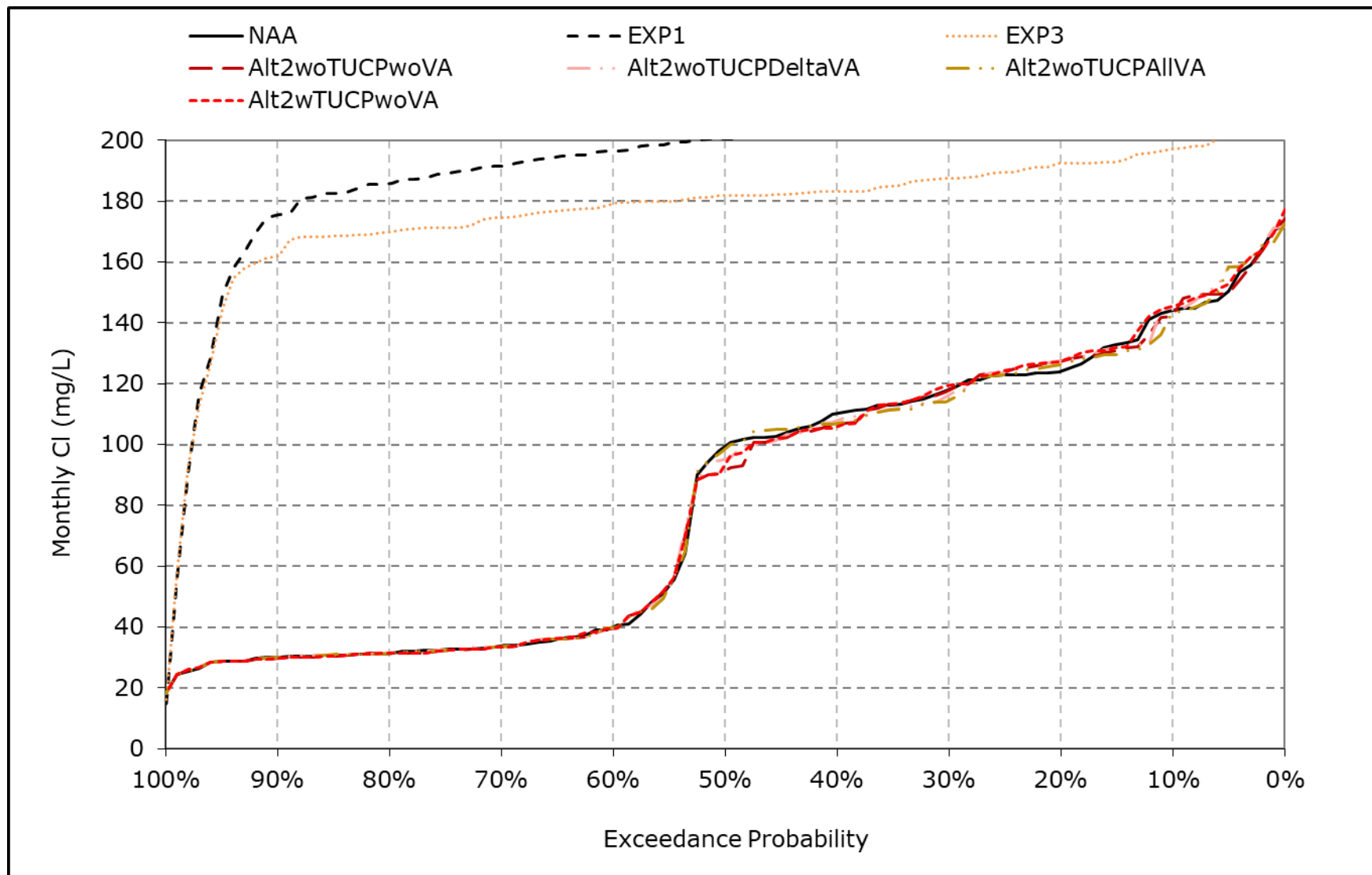
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-16. Banks Pumping Plant South Delta Exports Chloride, October CI**



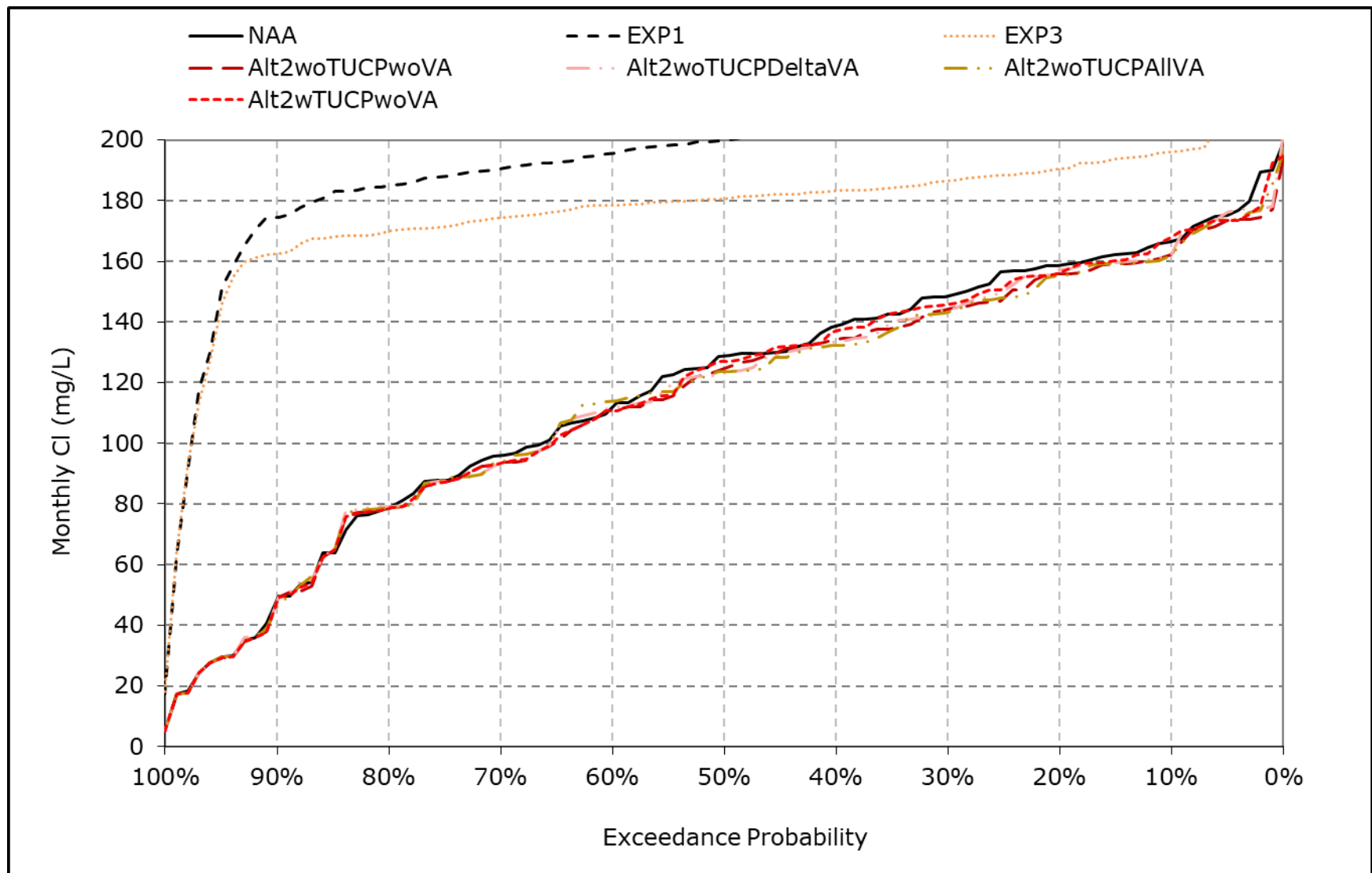
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-17. Banks Pumping Plant South Delta Exports Chloride, November CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-3-18. Banks Pumping Plant South Delta Exports Chloride, December CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Table F.2.7-4-1a. Jones Pumping Plant South Delta Exports Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 128 | 157 | 168 | 170 | 155 | 137 | 121 | 98  | 96  | 102 | 112 | 117 |
| 20% Exceedance                              | 125 | 146 | 163 | 159 | 139 | 125 | 112 | 88  | 63  | 62  | 79  | 101 |
| 30% Exceedance                              | 119 | 131 | 157 | 152 | 122 | 119 | 106 | 83  | 59  | 56  | 68  | 93  |
| 40% Exceedance                              | 117 | 124 | 154 | 136 | 115 | 114 | 102 | 81  | 57  | 53  | 63  | 90  |
| 50% Exceedance                              | 110 | 113 | 144 | 122 | 105 | 108 | 97  | 77  | 55  | 51  | 58  | 81  |
| 60% Exceedance                              | 68  | 73  | 134 | 110 | 97  | 95  | 72  | 63  | 53  | 48  | 52  | 56  |
| 70% Exceedance                              | 60  | 63  | 116 | 94  | 85  | 66  | 53  | 50  | 50  | 46  | 47  | 52  |
| 80% Exceedance                              | 55  | 59  | 97  | 76  | 50  | 52  | 38  | 29  | 46  | 44  | 45  | 51  |
| 90% Exceedance                              | 51  | 56  | 71  | 39  | 19  | 25  | 17  | 7   | 28  | 41  | 42  | 49  |
| Full Simulation Period Average <sup>a</sup> | 93  | 102 | 130 | 116 | 99  | 92  | 79  | 64  | 57  | 58  | 65  | 78  |
| Wet Water Years (28%)                       | 54  | 61  | 104 | 78  | 59  | 46  | 33  | 25  | 36  | 48  | 46  | 50  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 120 | 95  | 84  | 72  | 61  | 52  | 47  | 44  | 51  |
| Below Normal Years (18%)                    | 113 | 119 | 133 | 122 | 101 | 103 | 85  | 69  | 55  | 50  | 61  | 91  |
| Dry Water Years (24%)                       | 119 | 128 | 136 | 134 | 123 | 114 | 104 | 82  | 56  | 52  | 70  | 89  |
| Critical Water Years (16%)                  | 130 | 158 | 168 | 145 | 136 | 134 | 123 | 102 | 101 | 103 | 113 | 121 |

**Table F.2.7-4-1b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 130 | 160 | 166 | 171 | 157 | 139 | 116 | 95  | 84  | 78  | 90  | 103 |
| 20% Exceedance                              | 126 | 151 | 159 | 161 | 139 | 129 | 109 | 84  | 67  | 64  | 74  | 98  |
| 30% Exceedance                              | 122 | 133 | 155 | 151 | 126 | 120 | 105 | 81  | 60  | 59  | 69  | 93  |
| 40% Exceedance                              | 117 | 121 | 151 | 136 | 114 | 115 | 102 | 80  | 58  | 55  | 65  | 90  |
| 50% Exceedance                              | 111 | 110 | 141 | 123 | 107 | 109 | 96  | 72  | 57  | 51  | 59  | 82  |
| 60% Exceedance                              | 70  | 72  | 132 | 111 | 98  | 93  | 75  | 61  | 54  | 49  | 53  | 59  |
| 70% Exceedance                              | 61  | 64  | 113 | 95  | 87  | 65  | 53  | 48  | 51  | 46  | 50  | 55  |
| 80% Exceedance                              | 56  | 58  | 98  | 78  | 50  | 51  | 38  | 27  | 45  | 44  | 47  | 53  |
| 90% Exceedance                              | 51  | 56  | 70  | 39  | 19  | 24  | 17  | 7   | 28  | 41  | 44  | 49  |
| Full Simulation Period Average <sup>a</sup> | 94  | 103 | 128 | 117 | 100 | 94  | 78  | 61  | 56  | 56  | 62  | 76  |
| Wet Water Years (28%)                       | 54  | 61  | 103 | 77  | 58  | 46  | 33  | 24  | 36  | 49  | 48  | 51  |
| Above Normal Years (14%)                    | 64  | 60  | 128 | 121 | 96  | 84  | 71  | 56  | 52  | 46  | 47  | 55  |
| Below Normal Years (18%)                    | 115 | 118 | 131 | 124 | 102 | 102 | 85  | 67  | 56  | 51  | 63  | 89  |
| Dry Water Years (24%)                       | 121 | 129 | 136 | 135 | 124 | 115 | 104 | 80  | 59  | 54  | 72  | 92  |
| Critical Water Years (16%)                  | 131 | 163 | 161 | 148 | 137 | 144 | 116 | 94  | 88  | 84  | 85  | 102 |

**Table F.2.7-4-1c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 2   | 3   | -2  | 1   | 1   | 2   | -5  | -3  | -12 | -24 | -22 | -14 |
| 20% Exceedance                              | 1   | 5   | -3  | 2   | 0   | 3   | -3  | -4  | 4   | 2   | -4  | -2  |
| 30% Exceedance                              | 4   | 1   | -1  | -1  | 3   | 1   | -1  | -2  | 1   | 3   | 1   | 0   |
| 40% Exceedance                              | 0   | -2  | -3  | -1  | -1  | 1   | -1  | -2  | 1   | 2   | 2   | 0   |
| 50% Exceedance                              | 1   | -2  | -3  | 2   | 3   | 1   | -1  | -5  | 1   | 0   | 2   | 1   |
| 60% Exceedance                              | 2   | -1  | -2  | 0   | 1   | -2  | 2   | -3  | 1   | 0   | 2   | 3   |
| 70% Exceedance                              | 1   | 1   | -3  | 1   | 2   | -1  | 0   | -2  | 0   | 0   | 2   | 3   |
| 80% Exceedance                              | 1   | 0   | 1   | 2   | 0   | -1  | 0   | -1  | -1  | 0   | 3   | 2   |
| 90% Exceedance                              | 1   | 0   | -2  | 0   | 0   | -2  | 0   | 0   | 0   | 1   | 2   | 0   |
| Full Simulation Period Average <sup>a</sup> | 1   | 1   | -2  | 1   | 0   | 1   | -1  | -3  | -1  | -2  | -3  | -2  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -1  | -1  | 0   | 0   | -1  | 0   | 1   | 2   | 1   |
| Above Normal Years (14%)                    | 1   | -1  | -2  | 1   | 0   | 0   | -1  | -4  | 0   | -1  | 2   | 4   |
| Below Normal Years (18%)                    | 2   | -1  | -2  | 1   | 1   | -1  | 0   | -2  | 1   | 1   | 2   | -2  |
| Dry Water Years (24%)                       | 2   | 1   | 0   | 1   | 1   | 1   | 0   | -2  | 2   | 2   | 3   | 3   |
| Critical Water Years (16%)                  | 1   | 5   | -7  | 3   | 1   | 10  | -7  | -8  | -13 | -20 | -28 | -19 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-4-2a. Jones Pumping Plant South Delta Exports Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 128 | 157 | 168 | 170 | 155 | 137 | 121 | 98  | 96  | 102 | 112 | 117 |
| 20% Exceedance                              | 125 | 146 | 163 | 159 | 139 | 125 | 112 | 88  | 63  | 62  | 79  | 101 |
| 30% Exceedance                              | 119 | 131 | 157 | 152 | 122 | 119 | 106 | 83  | 59  | 56  | 68  | 93  |
| 40% Exceedance                              | 117 | 124 | 154 | 136 | 115 | 114 | 102 | 81  | 57  | 53  | 63  | 90  |
| 50% Exceedance                              | 110 | 113 | 144 | 122 | 105 | 108 | 97  | 77  | 55  | 51  | 58  | 81  |
| 60% Exceedance                              | 68  | 73  | 134 | 110 | 97  | 95  | 72  | 63  | 53  | 48  | 52  | 56  |
| 70% Exceedance                              | 60  | 63  | 116 | 94  | 85  | 66  | 53  | 50  | 50  | 46  | 47  | 52  |
| 80% Exceedance                              | 55  | 59  | 97  | 76  | 50  | 52  | 38  | 29  | 46  | 44  | 45  | 51  |
| 90% Exceedance                              | 51  | 56  | 71  | 39  | 19  | 25  | 17  | 7   | 28  | 41  | 42  | 49  |
| Full Simulation Period Average <sup>a</sup> | 93  | 102 | 130 | 116 | 99  | 92  | 79  | 64  | 57  | 58  | 65  | 78  |
| Wet Water Years (28%)                       | 54  | 61  | 104 | 78  | 59  | 46  | 33  | 25  | 36  | 48  | 46  | 50  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 120 | 95  | 84  | 72  | 61  | 52  | 47  | 44  | 51  |
| Below Normal Years (18%)                    | 113 | 119 | 133 | 122 | 101 | 103 | 85  | 69  | 55  | 50  | 61  | 91  |
| Dry Water Years (24%)                       | 119 | 128 | 136 | 134 | 123 | 114 | 104 | 82  | 56  | 52  | 70  | 89  |
| Critical Water Years (16%)                  | 130 | 158 | 168 | 145 | 136 | 134 | 123 | 102 | 101 | 103 | 113 | 121 |

**Table F.2.7-4-2b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 131 | 161 | 168 | 168 | 154 | 160 | 126 | 99  | 85  | 79  | 90  | 104 |
| 20% Exceedance                              | 126 | 151 | 161 | 160 | 139 | 151 | 119 | 92  | 67  | 63  | 76  | 101 |
| 30% Exceedance                              | 122 | 135 | 156 | 147 | 126 | 139 | 114 | 87  | 62  | 59  | 70  | 95  |
| 40% Exceedance                              | 117 | 121 | 150 | 135 | 114 | 132 | 110 | 84  | 60  | 55  | 66  | 90  |
| 50% Exceedance                              | 111 | 113 | 141 | 124 | 108 | 119 | 101 | 78  | 58  | 52  | 62  | 85  |
| 60% Exceedance                              | 69  | 72  | 132 | 111 | 98  | 98  | 77  | 64  | 56  | 50  | 53  | 59  |
| 70% Exceedance                              | 60  | 65  | 113 | 95  | 87  | 68  | 53  | 50  | 53  | 47  | 50  | 55  |
| 80% Exceedance                              | 56  | 60  | 99  | 79  | 50  | 51  | 38  | 28  | 46  | 44  | 47  | 53  |
| 90% Exceedance                              | 51  | 56  | 70  | 39  | 19  | 24  | 17  | 7   | 28  | 41  | 43  | 49  |
| Full Simulation Period Average <sup>a</sup> | 94  | 103 | 129 | 116 | 100 | 104 | 83  | 64  | 57  | 56  | 63  | 77  |
| Wet Water Years (28%)                       | 54  | 61  | 103 | 77  | 58  | 48  | 33  | 25  | 36  | 49  | 48  | 51  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 121 | 96  | 94  | 76  | 61  | 53  | 47  | 47  | 54  |
| Below Normal Years (18%)                    | 115 | 118 | 132 | 124 | 102 | 122 | 92  | 71  | 57  | 52  | 64  | 91  |
| Dry Water Years (24%)                       | 121 | 129 | 135 | 133 | 124 | 130 | 114 | 86  | 60  | 54  | 74  | 94  |
| Critical Water Years (16%)                  | 133 | 164 | 163 | 146 | 141 | 149 | 118 | 95  | 89  | 83  | 85  | 103 |

**Table F.2.7-4-2c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 3   | 4   | 0   | -2  | -1  | 22  | 5   | 1   | -10 | -23 | -22 | -13 |
| 20% Exceedance                              | 1   | 5   | -2  | 1   | 0   | 26  | 7   | 4   | 4   | 1   | -3  | 0   |
| 30% Exceedance                              | 3   | 3   | -1  | -5  | 3   | 20  | 8   | 4   | 2   | 3   | 2   | 2   |
| 40% Exceedance                              | 0   | -3  | -3  | -1  | 0   | 19  | 8   | 3   | 3   | 3   | 3   | 1   |
| 50% Exceedance                              | 1   | 0   | -3  | 2   | 4   | 11  | 4   | 1   | 2   | 1   | 4   | 4   |
| 60% Exceedance                              | 1   | 0   | -2  | 0   | 1   | 4   | 5   | 1   | 2   | 1   | 2   | 2   |
| 70% Exceedance                              | -1  | 1   | -3  | 1   | 2   | 2   | 0   | 0   | 2   | 1   | 3   | 3   |
| 80% Exceedance                              | 1   | 1   | 1   | 2   | 0   | -1  | 0   | -1  | 1   | 0   | 3   | 2   |
| 90% Exceedance                              | 1   | 0   | -1  | 0   | 0   | -2  | 0   | 0   | 0   | 1   | 1   | 0   |
| Full Simulation Period Average <sup>a</sup> | 1   | 1   | -1  | 0   | 1   | 11  | 4   | 0   | 0   | -2  | -2  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | 0   | -1  | 2   | 1   | 0   | 1   | 2   | 2   | 1   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 1   | 0   | 9   | 5   | 1   | 1   | 1   | 3   | 3   |
| Below Normal Years (18%)                    | 2   | -1  | -1  | 2   | 2   | 19  | 7   | 2   | 2   | 2   | 3   | 0   |
| Dry Water Years (24%)                       | 2   | 2   | -1  | -1  | 1   | 16  | 10  | 4   | 4   | 2   | 4   | 6   |
| Critical Water Years (16%)                  | 3   | 6   | -6  | 1   | 5   | 15  | -5  | -7  | -12 | -20 | -27 | -18 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-4-3a. Jones Pumping Plant South Delta Exports Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 128 | 157 | 168 | 170 | 155 | 137 | 121 | 98  | 96  | 102 | 112 | 117 |
| 20% Exceedance                              | 125 | 146 | 163 | 159 | 139 | 125 | 112 | 88  | 63  | 62  | 79  | 101 |
| 30% Exceedance                              | 119 | 131 | 157 | 152 | 122 | 119 | 106 | 83  | 59  | 56  | 68  | 93  |
| 40% Exceedance                              | 117 | 124 | 154 | 136 | 115 | 114 | 102 | 81  | 57  | 53  | 63  | 90  |
| 50% Exceedance                              | 110 | 113 | 144 | 122 | 105 | 108 | 97  | 77  | 55  | 51  | 58  | 81  |
| 60% Exceedance                              | 68  | 73  | 134 | 110 | 97  | 95  | 72  | 63  | 53  | 48  | 52  | 56  |
| 70% Exceedance                              | 60  | 63  | 116 | 94  | 85  | 66  | 53  | 50  | 50  | 46  | 47  | 52  |
| 80% Exceedance                              | 55  | 59  | 97  | 76  | 50  | 52  | 38  | 29  | 46  | 44  | 45  | 51  |
| 90% Exceedance                              | 51  | 56  | 71  | 39  | 19  | 25  | 17  | 7   | 28  | 41  | 42  | 49  |
| Full Simulation Period Average <sup>a</sup> | 93  | 102 | 130 | 116 | 99  | 92  | 79  | 64  | 57  | 58  | 65  | 78  |
| Wet Water Years (28%)                       | 54  | 61  | 104 | 78  | 59  | 46  | 33  | 25  | 36  | 48  | 46  | 50  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 120 | 95  | 84  | 72  | 61  | 52  | 47  | 44  | 51  |
| Below Normal Years (18%)                    | 113 | 119 | 133 | 122 | 101 | 103 | 85  | 69  | 55  | 50  | 61  | 91  |
| Dry Water Years (24%)                       | 119 | 128 | 136 | 134 | 123 | 114 | 104 | 82  | 56  | 52  | 70  | 89  |
| Critical Water Years (16%)                  | 130 | 158 | 168 | 145 | 136 | 134 | 123 | 102 | 101 | 103 | 113 | 121 |

**Table F.2.7-4-3b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPAIIVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 131 | 160 | 168 | 170 | 153 | 160 | 126 | 98  | 84  | 75  | 87  | 104 |
| 20% Exceedance                              | 125 | 144 | 161 | 160 | 136 | 151 | 119 | 93  | 66  | 64  | 75  | 100 |
| 30% Exceedance                              | 122 | 134 | 156 | 147 | 125 | 139 | 114 | 87  | 61  | 59  | 69  | 96  |
| 40% Exceedance                              | 117 | 119 | 150 | 133 | 114 | 132 | 110 | 84  | 59  | 57  | 66  | 91  |
| 50% Exceedance                              | 111 | 113 | 140 | 123 | 107 | 119 | 101 | 77  | 57  | 52  | 61  | 84  |
| 60% Exceedance                              | 68  | 72  | 132 | 112 | 99  | 98  | 77  | 64  | 55  | 49  | 54  | 59  |
| 70% Exceedance                              | 60  | 64  | 113 | 95  | 87  | 68  | 53  | 50  | 53  | 47  | 50  | 54  |
| 80% Exceedance                              | 56  | 59  | 99  | 79  | 50  | 51  | 38  | 28  | 46  | 45  | 47  | 52  |
| 90% Exceedance                              | 51  | 56  | 70  | 39  | 19  | 24  | 17  | 7   | 28  | 42  | 42  | 49  |
| Full Simulation Period Average <sup>a</sup> | 94  | 103 | 129 | 116 | 100 | 104 | 83  | 64  | 56  | 56  | 63  | 77  |
| Wet Water Years (28%)                       | 54  | 61  | 103 | 78  | 58  | 48  | 33  | 25  | 36  | 50  | 48  | 51  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 121 | 96  | 94  | 76  | 61  | 52  | 48  | 46  | 53  |
| Below Normal Years (18%)                    | 114 | 118 | 132 | 123 | 102 | 122 | 92  | 71  | 56  | 53  | 64  | 91  |
| Dry Water Years (24%)                       | 121 | 128 | 135 | 132 | 122 | 131 | 114 | 87  | 59  | 55  | 75  | 94  |
| Critical Water Years (16%)                  | 135 | 166 | 162 | 147 | 142 | 150 | 118 | 94  | 86  | 80  | 84  | 102 |

**Table F.2.7-4-3c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPAIIVA minus NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 3   | 3   | 0   | 0   | -2  | 22  | 6   | 0   | -11 | -27 | -25 | -13 |
| 20% Exceedance                              | 0   | -2  | -2  | 1   | -3  | 26  | 7   | 4   | 2   | 2   | -3  | -1  |
| 30% Exceedance                              | 3   | 2   | -1  | -5  | 3   | 20  | 9   | 4   | 2   | 2   | 1   | 3   |
| 40% Exceedance                              | 0   | -5  | -4  | -4  | 0   | 19  | 8   | 3   | 2   | 4   | 3   | 1   |
| 50% Exceedance                              | 1   | 1   | -4  | 2   | 3   | 11  | 4   | 1   | 1   | 1   | 4   | 4   |
| 60% Exceedance                              | 0   | -1  | -2  | 2   | 2   | 4   | 5   | 1   | 2   | 1   | 2   | 2   |
| 70% Exceedance                              | 0   | 1   | -3  | 1   | 2   | 2   | 0   | 0   | 2   | 1   | 2   | 2   |
| 80% Exceedance                              | 1   | 1   | 1   | 2   | 0   | -1  | 0   | -1  | 0   | 1   | 2   | 2   |
| 90% Exceedance                              | 1   | 0   | -1  | 0   | 0   | -1  | 0   | 0   | 0   | 2   | 1   | 0   |
| Full Simulation Period Average <sup>a</sup> | 1   | 1   | -2  | 0   | 1   | 12  | 4   | 0   | -1  | -2  | -2  | -1  |
| Wet Water Years (28%)                       | 0   | 0   | -1  | 0   | -1  | 2   | 1   | 0   | 0   | 2   | 1   | 1   |
| Above Normal Years (14%)                    | 0   | 0   | 0   | 1   | 0   | 9   | 5   | 1   | 1   | 1   | 2   | 2   |
| Below Normal Years (18%)                    | 1   | -1  | -1  | 1   | 2   | 19  | 7   | 2   | 1   | 3   | 3   | 0   |
| Dry Water Years (24%)                       | 2   | 0   | -1  | -2  | -1  | 17  | 10  | 5   | 3   | 3   | 5   | 6   |
| Critical Water Years (16%)                  | 5   | 7   | -6  | 2   | 7   | 15  | -5  | -8  | -15 | -23 | -29 | -19 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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



**Table F.2.7-4-4a. Jones Pumping Plant South Delta Exports Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 128 | 157 | 168 | 170 | 155 | 137 | 121 | 98  | 96  | 102 | 112 | 117 |
| 20% Exceedance                              | 125 | 146 | 163 | 159 | 139 | 125 | 112 | 88  | 63  | 62  | 79  | 101 |
| 30% Exceedance                              | 119 | 131 | 157 | 152 | 122 | 119 | 106 | 83  | 59  | 56  | 68  | 93  |
| 40% Exceedance                              | 117 | 124 | 154 | 136 | 115 | 114 | 102 | 81  | 57  | 53  | 63  | 90  |
| 50% Exceedance                              | 110 | 113 | 144 | 122 | 105 | 108 | 97  | 77  | 55  | 51  | 58  | 81  |
| 60% Exceedance                              | 68  | 73  | 134 | 110 | 97  | 95  | 72  | 63  | 53  | 48  | 52  | 56  |
| 70% Exceedance                              | 60  | 63  | 116 | 94  | 85  | 66  | 53  | 50  | 50  | 46  | 47  | 52  |
| 80% Exceedance                              | 55  | 59  | 97  | 76  | 50  | 52  | 38  | 29  | 46  | 44  | 45  | 51  |
| 90% Exceedance                              | 51  | 56  | 71  | 39  | 19  | 25  | 17  | 7   | 28  | 41  | 42  | 49  |
| Full Simulation Period Average <sup>a</sup> | 93  | 102 | 130 | 116 | 99  | 92  | 79  | 64  | 57  | 58  | 65  | 78  |
| Wet Water Years (28%)                       | 54  | 61  | 104 | 78  | 59  | 46  | 33  | 25  | 36  | 48  | 46  | 50  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 120 | 95  | 84  | 72  | 61  | 52  | 47  | 44  | 51  |
| Below Normal Years (18%)                    | 113 | 119 | 133 | 122 | 101 | 103 | 85  | 69  | 55  | 50  | 61  | 91  |
| Dry Water Years (24%)                       | 119 | 128 | 136 | 134 | 123 | 114 | 104 | 82  | 56  | 52  | 70  | 89  |
| Critical Water Years (16%)                  | 130 | 158 | 168 | 145 | 136 | 134 | 123 | 102 | 101 | 103 | 113 | 121 |

**Table F.2.7-4-4b. Jones Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 130 | 159 | 168 | 171 | 155 | 139 | 121 | 97  | 89  | 102 | 112 | 116 |
| 20% Exceedance                              | 125 | 147 | 162 | 156 | 139 | 127 | 109 | 84  | 67  | 65  | 76  | 99  |
| 30% Exceedance                              | 121 | 133 | 156 | 151 | 127 | 119 | 105 | 81  | 60  | 60  | 70  | 94  |
| 40% Exceedance                              | 117 | 119 | 152 | 140 | 115 | 114 | 102 | 79  | 58  | 55  | 66  | 91  |
| 50% Exceedance                              | 109 | 110 | 141 | 123 | 107 | 109 | 96  | 72  | 56  | 51  | 61  | 85  |
| 60% Exceedance                              | 70  | 72  | 133 | 112 | 98  | 93  | 72  | 61  | 54  | 49  | 54  | 60  |
| 70% Exceedance                              | 60  | 64  | 113 | 95  | 87  | 65  | 53  | 47  | 51  | 46  | 50  | 55  |
| 80% Exceedance                              | 56  | 58  | 98  | 78  | 50  | 51  | 38  | 27  | 45  | 44  | 47  | 53  |
| 90% Exceedance                              | 52  | 56  | 70  | 39  | 19  | 24  | 17  | 7   | 28  | 41  | 44  | 49  |
| Full Simulation Period Average <sup>a</sup> | 94  | 102 | 129 | 117 | 99  | 93  | 79  | 62  | 58  | 59  | 66  | 79  |
| Wet Water Years (28%)                       | 54  | 61  | 103 | 77  | 58  | 46  | 33  | 24  | 36  | 49  | 48  | 51  |
| Above Normal Years (14%)                    | 64  | 61  | 129 | 121 | 95  | 84  | 71  | 56  | 52  | 46  | 46  | 55  |
| Below Normal Years (18%)                    | 114 | 117 | 132 | 122 | 101 | 104 | 85  | 67  | 56  | 51  | 63  | 91  |
| Dry Water Years (24%)                       | 121 | 129 | 136 | 136 | 124 | 115 | 104 | 80  | 59  | 54  | 73  | 92  |
| Critical Water Years (16%)                  | 129 | 162 | 164 | 149 | 136 | 137 | 122 | 100 | 100 | 102 | 110 | 119 |

**Table F.2.7-4-4c. Jones Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 1   | 2   | 0   | 1   | 0   | 2   | 0   | -1  | -7  | 0   | 0   | -1  |
| 20% Exceedance                              | 1   | 1   | -1  | -3  | 0   | 2   | -3  | -4  | 4   | 3   | -2  | -2  |
| 30% Exceedance                              | 2   | 1   | -1  | -1  | 4   | 0   | -1  | -2  | 1   | 3   | 2   | 1   |
| 40% Exceedance                              | 0   | -5  | -2  | 4   | 0   | 1   | -1  | -2  | 1   | 2   | 3   | 1   |
| 50% Exceedance                              | -1  | -2  | -3  | 2   | 3   | 1   | -1  | -5  | 1   | 0   | 4   | 4   |
| 60% Exceedance                              | 2   | -1  | -2  | 1   | 1   | -2  | 0   | -3  | 1   | 1   | 2   | 4   |
| 70% Exceedance                              | 0   | 1   | -3  | 1   | 2   | -1  | 0   | -4  | 0   | 0   | 2   | 3   |
| 80% Exceedance                              | 0   | 0   | 1   | 2   | 0   | -1  | 0   | -1  | -1  | 0   | 3   | 2   |
| 90% Exceedance                              | 1   | 0   | -2  | 0   | 0   | -2  | 0   | 0   | 0   | 1   | 2   | 0   |
| Full Simulation Period Average <sup>a</sup> | 1   | 0   | -1  | 1   | 0   | 0   | -1  | -2  | 1   | 1   | 2   | 1   |
| Wet Water Years (28%)                       | 0   | 0   | -1  | -1  | -1  | -1  | 0   | -1  | 0   | 1   | 2   | 1   |
| Above Normal Years (14%)                    | 1   | -1  | -1  | 1   | 0   | -1  | -1  | -4  | 0   | -1  | 2   | 4   |
| Below Normal Years (18%)                    | 2   | -2  | -1  | -1  | 1   | 0   | 0   | -2  | 1   | 1   | 3   | 0   |
| Dry Water Years (24%)                       | 2   | 1   | 0   | 2   | 1   | 1   | 0   | -2  | 3   | 3   | 3   | 3   |
| Critical Water Years (16%)                  | -1  | 3   | -4  | 4   | 1   | 3   | -2  | -2  | -1  | -1  | -3  | -2  |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-4-5a. Jones Pumping Plant South Delta Exports Chloride, NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 128 | 157 | 168 | 170 | 155 | 137 | 121 | 98  | 96  | 102 | 112 | 117 |
| 20% Exceedance                              | 125 | 146 | 163 | 159 | 139 | 125 | 112 | 88  | 63  | 62  | 79  | 101 |
| 30% Exceedance                              | 119 | 131 | 157 | 152 | 122 | 119 | 106 | 83  | 59  | 56  | 68  | 93  |
| 40% Exceedance                              | 117 | 124 | 154 | 136 | 115 | 114 | 102 | 81  | 57  | 53  | 63  | 90  |
| 50% Exceedance                              | 110 | 113 | 144 | 122 | 105 | 108 | 97  | 77  | 55  | 51  | 58  | 81  |
| 60% Exceedance                              | 68  | 73  | 134 | 110 | 97  | 95  | 72  | 63  | 53  | 48  | 52  | 56  |
| 70% Exceedance                              | 60  | 63  | 116 | 94  | 85  | 66  | 53  | 50  | 50  | 46  | 47  | 52  |
| 80% Exceedance                              | 55  | 59  | 97  | 76  | 50  | 52  | 38  | 29  | 46  | 44  | 45  | 51  |
| 90% Exceedance                              | 51  | 56  | 71  | 39  | 19  | 25  | 17  | 7   | 28  | 41  | 42  | 49  |
| Full Simulation Period Average <sup>a</sup> | 93  | 102 | 130 | 116 | 99  | 92  | 79  | 64  | 57  | 58  | 65  | 78  |
| Wet Water Years (28%)                       | 54  | 61  | 104 | 78  | 59  | 46  | 33  | 25  | 36  | 48  | 46  | 50  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 120 | 95  | 84  | 72  | 61  | 52  | 47  | 44  | 51  |
| Below Normal Years (18%)                    | 113 | 119 | 133 | 122 | 101 | 103 | 85  | 69  | 55  | 50  | 61  | 91  |
| Dry Water Years (24%)                       | 119 | 128 | 136 | 134 | 123 | 114 | 104 | 82  | 56  | 52  | 70  | 89  |
| Critical Water Years (16%)                  | 130 | 158 | 168 | 145 | 136 | 134 | 123 | 102 | 101 | 103 | 113 | 121 |

**Table F.2.7-4-5b. Jones Pumping Plant South Delta Exports Chloride, EXP3, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 127 | 135 | 149 | 166 | 173 | 172 | 175 | 155 | 137 | 128 | 125 | 126 |
| 20% Exceedance                              | 123 | 132 | 147 | 160 | 164 | 166 | 169 | 153 | 134 | 124 | 122 | 121 |
| 30% Exceedance                              | 121 | 130 | 143 | 155 | 161 | 161 | 167 | 150 | 130 | 122 | 119 | 118 |
| 40% Exceedance                              | 118 | 128 | 141 | 151 | 157 | 158 | 162 | 145 | 123 | 116 | 115 | 115 |
| 50% Exceedance                              | 116 | 126 | 138 | 149 | 152 | 152 | 153 | 135 | 113 | 107 | 111 | 112 |
| 60% Exceedance                              | 113 | 124 | 137 | 145 | 147 | 138 | 120 | 104 | 80  | 90  | 101 | 109 |
| 70% Exceedance                              | 109 | 118 | 129 | 136 | 131 | 127 | 97  | 70  | 62  | 77  | 94  | 105 |
| 80% Exceedance                              | 105 | 110 | 114 | 122 | 119 | 87  | 80  | 59  | 45  | 61  | 83  | 98  |
| 90% Exceedance                              | 77  | 87  | 104 | 105 | 86  | 60  | 52  | 48  | 31  | 32  | 61  | 75  |
| Full Simulation Period Average <sup>a</sup> | 111 | 119 | 132 | 140 | 140 | 134 | 128 | 110 | 94  | 93  | 101 | 107 |
| Wet Water Years (28%)                       | 92  | 99  | 113 | 127 | 116 | 99  | 78  | 57  | 44  | 52  | 72  | 85  |
| Above Normal Years (14%)                    | 112 | 119 | 133 | 146 | 144 | 132 | 118 | 98  | 85  | 87  | 98  | 107 |
| Below Normal Years (18%)                    | 114 | 123 | 138 | 137 | 139 | 135 | 133 | 116 | 101 | 100 | 105 | 110 |
| Dry Water Years (24%)                       | 118 | 128 | 140 | 148 | 153 | 156 | 160 | 144 | 125 | 119 | 118 | 116 |
| Critical Water Years (16%)                  | 130 | 137 | 147 | 151 | 158 | 164 | 169 | 154 | 134 | 126 | 125 | 127 |

**Table F.2.7-4-5c. Jones Pumping Plant South Delta Exports Chloride, EXP3 minus NAA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -1  | -22 | -19 | -4  | 18  | 35  | 54  | 57  | 41  | 26  | 13  | 9   |
| 20% Exceedance                              | -2  | -15 | -16 | 1   | 26  | 40  | 56  | 65  | 71  | 62  | 43  | 20  |
| 30% Exceedance                              | 2   | -2  | -14 | 3   | 39  | 43  | 61  | 67  | 71  | 66  | 51  | 25  |
| 40% Exceedance                              | 1   | 4   | -13 | 15  | 43  | 44  | 60  | 64  | 66  | 64  | 52  | 25  |
| 50% Exceedance                              | 6   | 13  | -5  | 28  | 47  | 44  | 56  | 59  | 58  | 56  | 54  | 31  |
| 60% Exceedance                              | 45  | 51  | 3   | 35  | 50  | 44  | 48  | 40  | 27  | 41  | 50  | 53  |
| 70% Exceedance                              | 49  | 55  | 13  | 42  | 46  | 61  | 44  | 20  | 11  | 31  | 46  | 53  |
| 80% Exceedance                              | 50  | 52  | 17  | 46  | 69  | 35  | 42  | 31  | -1  | 17  | 38  | 48  |
| 90% Exceedance                              | 26  | 31  | 33  | 66  | 66  | 35  | 35  | 42  | 3   | -8  | 19  | 26  |
| Full Simulation Period Average <sup>a</sup> | 18  | 17  | 2   | 24  | 41  | 42  | 49  | 46  | 37  | 35  | 36  | 29  |
| Wet Water Years (28%)                       | 38  | 38  | 9   | 49  | 57  | 52  | 46  | 32  | 8   | 4   | 26  | 35  |
| Above Normal Years (14%)                    | 49  | 58  | 3   | 26  | 49  | 48  | 46  | 38  | 33  | 40  | 53  | 55  |
| Below Normal Years (18%)                    | 1   | 4   | 5   | 15  | 39  | 32  | 48  | 47  | 46  | 49  | 45  | 19  |
| Dry Water Years (24%)                       | -1  | 0   | 4   | 13  | 30  | 42  | 56  | 62  | 69  | 67  | 48  | 28  |
| Critical Water Years (16%)                  | -1  | -22 | -21 | 6   | 22  | 29  | 46  | 52  | 33  | 22  | 12  | 6   |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-4-6a. Jones Pumping Plant South Delta Exports Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 175 | 170 | 173 | 178 | 177 | 172 | 173 | 155 | 138 | 129 | 136 | 157 |
| 20% Exceedance                              | 155 | 157 | 163 | 169 | 166 | 161 | 163 | 146 | 130 | 124 | 125 | 141 |
| 30% Exceedance                              | 138 | 145 | 156 | 166 | 162 | 157 | 153 | 137 | 123 | 118 | 121 | 129 |
| 40% Exceedance                              | 130 | 140 | 150 | 158 | 155 | 150 | 149 | 131 | 116 | 111 | 114 | 122 |
| 50% Exceedance                              | 122 | 134 | 148 | 153 | 151 | 144 | 139 | 112 | 96  | 96  | 104 | 113 |
| 60% Exceedance                              | 119 | 132 | 144 | 147 | 145 | 135 | 113 | 78  | 71  | 80  | 97  | 109 |
| 70% Exceedance                              | 114 | 126 | 137 | 143 | 138 | 123 | 88  | 62  | 56  | 71  | 90  | 103 |
| 80% Exceedance                              | 106 | 116 | 130 | 138 | 125 | 89  | 69  | 52  | 34  | 54  | 77  | 94  |
| 90% Exceedance                              | 95  | 109 | 124 | 121 | 83  | 60  | 52  | 40  | 27  | 28  | 56  | 81  |
| Full Simulation Period Average <sup>a</sup> | 133 | 139 | 147 | 149 | 142 | 131 | 119 | 101 | 87  | 89  | 101 | 120 |
| Wet Water Years (28%)                       | 103 | 115 | 128 | 131 | 111 | 89  | 68  | 48  | 38  | 46  | 66  | 87  |
| Above Normal Years (14%)                    | 115 | 126 | 140 | 156 | 146 | 128 | 106 | 84  | 72  | 78  | 92  | 105 |
| Below Normal Years (18%)                    | 131 | 138 | 149 | 148 | 144 | 135 | 125 | 105 | 92  | 94  | 104 | 118 |
| Dry Water Years (24%)                       | 146 | 150 | 154 | 156 | 156 | 153 | 151 | 133 | 117 | 113 | 118 | 132 |
| Critical Water Years (16%)                  | 190 | 183 | 178 | 164 | 166 | 166 | 168 | 154 | 137 | 129 | 140 | 174 |

**Table F.2.7-4-6b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 130 | 160 | 166 | 171 | 157 | 139 | 116 | 95  | 84  | 78  | 90  | 103 |
| 20% Exceedance                              | 126 | 151 | 159 | 161 | 139 | 129 | 109 | 84  | 67  | 64  | 74  | 98  |
| 30% Exceedance                              | 122 | 133 | 155 | 151 | 126 | 120 | 105 | 81  | 60  | 59  | 69  | 93  |
| 40% Exceedance                              | 117 | 121 | 151 | 136 | 114 | 115 | 102 | 80  | 58  | 55  | 65  | 90  |
| 50% Exceedance                              | 111 | 110 | 141 | 123 | 107 | 109 | 96  | 72  | 57  | 51  | 59  | 82  |
| 60% Exceedance                              | 70  | 72  | 132 | 111 | 98  | 93  | 75  | 61  | 54  | 49  | 53  | 59  |
| 70% Exceedance                              | 61  | 64  | 113 | 95  | 87  | 65  | 53  | 48  | 51  | 46  | 50  | 55  |
| 80% Exceedance                              | 56  | 58  | 98  | 78  | 50  | 51  | 38  | 27  | 45  | 44  | 47  | 53  |
| 90% Exceedance                              | 51  | 56  | 70  | 39  | 19  | 24  | 17  | 7   | 28  | 41  | 44  | 49  |
| Full Simulation Period Average <sup>a</sup> | 94  | 103 | 128 | 117 | 100 | 94  | 78  | 61  | 56  | 56  | 62  | 76  |
| Wet Water Years (28%)                       | 54  | 61  | 103 | 77  | 58  | 46  | 33  | 24  | 36  | 49  | 48  | 51  |
| Above Normal Years (14%)                    | 64  | 60  | 128 | 121 | 96  | 84  | 71  | 56  | 52  | 46  | 47  | 55  |
| Below Normal Years (18%)                    | 115 | 118 | 131 | 124 | 102 | 102 | 85  | 67  | 56  | 51  | 63  | 89  |
| Dry Water Years (24%)                       | 121 | 129 | 136 | 135 | 124 | 115 | 104 | 80  | 59  | 54  | 72  | 92  |
| Critical Water Years (16%)                  | 131 | 163 | 161 | 148 | 137 | 144 | 116 | 94  | 88  | 84  | 85  | 102 |

**Table F.2.7-4-6c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPwoVA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -44 | -10 | -7  | -7  | -20 | -33 | -56 | -59 | -54 | -51 | -46 | -54 |
| 20% Exceedance                              | -29 | -6  | -4  | -8  | -27 | -32 | -54 | -62 | -63 | -59 | -51 | -43 |
| 30% Exceedance                              | -16 | -12 | 0   | -15 | -36 | -37 | -48 | -55 | -63 | -59 | -52 | -37 |
| 40% Exceedance                              | -13 | -19 | 1   | -23 | -41 | -35 | -48 | -51 | -58 | -56 | -48 | -32 |
| 50% Exceedance                              | -11 | -24 | -7  | -29 | -43 | -35 | -42 | -40 | -39 | -45 | -44 | -31 |
| 60% Exceedance                              | -49 | -60 | -12 | -37 | -46 | -42 | -39 | -18 | -17 | -32 | -44 | -50 |
| 70% Exceedance                              | -53 | -62 | -24 | -48 | -51 | -58 | -36 | -14 | -5  | -25 | -40 | -49 |
| 80% Exceedance                              | -50 | -57 | -31 | -59 | -75 | -39 | -31 | -24 | 11  | -10 | -29 | -41 |
| 90% Exceedance                              | -44 | -53 | -54 | -82 | -64 | -36 | -34 | -33 | 1   | 13  | -13 | -32 |
| Full Simulation Period Average <sup>a</sup> | -39 | -37 | -19 | -32 | -42 | -37 | -41 | -40 | -31 | -33 | -39 | -43 |
| Wet Water Years (28%)                       | -49 | -54 | -25 | -54 | -54 | -43 | -35 | -24 | -1  | 3   | -19 | -36 |
| Above Normal Years (14%)                    | -51 | -66 | -12 | -35 | -51 | -44 | -35 | -28 | -20 | -32 | -45 | -51 |
| Below Normal Years (18%)                    | -16 | -20 | -18 | -25 | -43 | -32 | -40 | -38 | -36 | -43 | -41 | -28 |
| Dry Water Years (24%)                       | -25 | -21 | -18 | -21 | -32 | -39 | -47 | -53 | -58 | -59 | -45 | -40 |
| Critical Water Years (16%)                  | -59 | -20 | -17 | -16 | -29 | -22 | -52 | -59 | -49 | -45 | -55 | -72 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-4-7a. Jones Pumping Plant South Delta Exports Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 175 | 170 | 173 | 178 | 177 | 172 | 173 | 155 | 138 | 129 | 136 | 157 |
| 20% Exceedance                              | 155 | 157 | 163 | 169 | 166 | 161 | 163 | 146 | 130 | 124 | 125 | 141 |
| 30% Exceedance                              | 138 | 145 | 156 | 166 | 162 | 157 | 153 | 137 | 123 | 118 | 121 | 129 |
| 40% Exceedance                              | 130 | 140 | 150 | 158 | 155 | 150 | 149 | 131 | 116 | 111 | 114 | 122 |
| 50% Exceedance                              | 122 | 134 | 148 | 153 | 151 | 144 | 139 | 112 | 96  | 96  | 104 | 113 |
| 60% Exceedance                              | 119 | 132 | 144 | 147 | 145 | 135 | 113 | 78  | 71  | 80  | 97  | 109 |
| 70% Exceedance                              | 114 | 126 | 137 | 143 | 138 | 123 | 88  | 62  | 56  | 71  | 90  | 103 |
| 80% Exceedance                              | 106 | 116 | 130 | 138 | 125 | 89  | 69  | 52  | 34  | 54  | 77  | 94  |
| 90% Exceedance                              | 95  | 109 | 124 | 121 | 83  | 60  | 52  | 40  | 27  | 28  | 56  | 81  |
| Full Simulation Period Average <sup>a</sup> | 133 | 139 | 147 | 149 | 142 | 131 | 119 | 101 | 87  | 89  | 101 | 120 |
| Wet Water Years (28%)                       | 103 | 115 | 128 | 131 | 111 | 89  | 68  | 48  | 38  | 46  | 66  | 87  |
| Above Normal Years (14%)                    | 115 | 126 | 140 | 156 | 146 | 128 | 106 | 84  | 72  | 78  | 92  | 105 |
| Below Normal Years (18%)                    | 131 | 138 | 149 | 148 | 144 | 135 | 125 | 105 | 92  | 94  | 104 | 118 |
| Dry Water Years (24%)                       | 146 | 150 | 154 | 156 | 156 | 153 | 151 | 133 | 117 | 113 | 118 | 132 |
| Critical Water Years (16%)                  | 190 | 183 | 178 | 164 | 166 | 166 | 168 | 154 | 137 | 129 | 140 | 174 |

**Table F.2.7-4-7b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 131 | 161 | 168 | 168 | 154 | 160 | 126 | 99  | 85  | 79  | 90  | 104 |
| 20% Exceedance                              | 126 | 151 | 161 | 160 | 139 | 151 | 119 | 92  | 67  | 63  | 76  | 101 |
| 30% Exceedance                              | 122 | 135 | 156 | 147 | 126 | 139 | 114 | 87  | 62  | 59  | 70  | 95  |
| 40% Exceedance                              | 117 | 121 | 150 | 135 | 114 | 132 | 110 | 84  | 60  | 55  | 66  | 90  |
| 50% Exceedance                              | 111 | 113 | 141 | 124 | 108 | 119 | 101 | 78  | 58  | 52  | 62  | 85  |
| 60% Exceedance                              | 69  | 72  | 132 | 111 | 98  | 98  | 77  | 64  | 56  | 50  | 53  | 59  |
| 70% Exceedance                              | 60  | 65  | 113 | 95  | 87  | 68  | 53  | 50  | 53  | 47  | 50  | 55  |
| 80% Exceedance                              | 56  | 60  | 99  | 79  | 50  | 51  | 38  | 28  | 46  | 44  | 47  | 53  |
| 90% Exceedance                              | 51  | 56  | 70  | 39  | 19  | 24  | 17  | 7   | 28  | 41  | 43  | 49  |
| Full Simulation Period Average <sup>a</sup> | 94  | 103 | 129 | 116 | 100 | 104 | 83  | 64  | 57  | 56  | 63  | 77  |
| Wet Water Years (28%)                       | 54  | 61  | 103 | 77  | 58  | 48  | 33  | 25  | 36  | 49  | 48  | 51  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 121 | 96  | 94  | 76  | 61  | 53  | 47  | 47  | 54  |
| Below Normal Years (18%)                    | 115 | 118 | 132 | 124 | 102 | 122 | 92  | 71  | 57  | 52  | 64  | 91  |
| Dry Water Years (24%)                       | 121 | 129 | 135 | 133 | 124 | 130 | 114 | 86  | 60  | 54  | 74  | 94  |
| Critical Water Years (16%)                  | 133 | 164 | 163 | 146 | 141 | 149 | 118 | 95  | 89  | 83  | 85  | 103 |

**Table F.2.7-4-7c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPDeltaVA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -43 | -9  | -5  | -10 | -23 | -13 | -46 | -56 | -53 | -51 | -46 | -53 |
| 20% Exceedance                              | -30 | -6  | -3  | -8  | -28 | -10 | -44 | -54 | -63 | -61 | -50 | -41 |
| 30% Exceedance                              | -17 | -10 | 0   | -19 | -36 | -18 | -39 | -50 | -61 | -59 | -51 | -35 |
| 40% Exceedance                              | -13 | -19 | 1   | -23 | -41 | -18 | -39 | -46 | -56 | -55 | -47 | -32 |
| 50% Exceedance                              | -11 | -22 | -7  | -29 | -42 | -25 | -37 | -34 | -38 | -45 | -42 | -28 |
| 60% Exceedance                              | -50 | -59 | -12 | -37 | -46 | -36 | -36 | -14 | -16 | -31 | -43 | -50 |
| 70% Exceedance                              | -54 | -61 | -24 | -48 | -51 | -55 | -35 | -12 | -3  | -24 | -40 | -48 |
| 80% Exceedance                              | -50 | -56 | -31 | -59 | -75 | -38 | -31 | -24 | 12  | -10 | -29 | -41 |
| 90% Exceedance                              | -44 | -53 | -54 | -82 | -64 | -36 | -35 | -33 | 1   | 13  | -13 | -32 |
| Full Simulation Period Average <sup>a</sup> | -39 | -36 | -18 | -33 | -41 | -27 | -36 | -37 | -31 | -32 | -38 | -42 |
| Wet Water Years (28%)                       | -49 | -53 | -25 | -54 | -54 | -41 | -34 | -23 | -1  | 3   | -19 | -36 |
| Above Normal Years (14%)                    | -52 | -65 | -11 | -35 | -51 | -34 | -29 | -23 | -19 | -30 | -45 | -51 |
| Below Normal Years (18%)                    | -16 | -20 | -17 | -24 | -42 | -13 | -32 | -34 | -35 | -43 | -40 | -26 |
| Dry Water Years (24%)                       | -25 | -21 | -19 | -23 | -32 | -23 | -37 | -47 | -56 | -59 | -44 | -38 |
| Critical Water Years (16%)                  | -57 | -19 | -15 | -18 | -26 | -17 | -50 | -59 | -48 | -45 | -55 | -71 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-4-8a. Jones Pumping Plant South Delta Exports Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 175 | 170 | 173 | 178 | 177 | 172 | 173 | 155 | 138 | 129 | 136 | 157 |
| 20% Exceedance                              | 155 | 157 | 163 | 169 | 166 | 161 | 163 | 146 | 130 | 124 | 125 | 141 |
| 30% Exceedance                              | 138 | 145 | 156 | 166 | 162 | 157 | 153 | 137 | 123 | 118 | 121 | 129 |
| 40% Exceedance                              | 130 | 140 | 150 | 158 | 155 | 150 | 149 | 131 | 116 | 111 | 114 | 122 |
| 50% Exceedance                              | 122 | 134 | 148 | 153 | 151 | 144 | 139 | 112 | 96  | 96  | 104 | 113 |
| 60% Exceedance                              | 119 | 132 | 144 | 147 | 145 | 135 | 113 | 78  | 71  | 80  | 97  | 109 |
| 70% Exceedance                              | 114 | 126 | 137 | 143 | 138 | 123 | 88  | 62  | 56  | 71  | 90  | 103 |
| 80% Exceedance                              | 106 | 116 | 130 | 138 | 125 | 89  | 69  | 52  | 34  | 54  | 77  | 94  |
| 90% Exceedance                              | 95  | 109 | 124 | 121 | 83  | 60  | 52  | 40  | 27  | 28  | 56  | 81  |
| Full Simulation Period Average <sup>a</sup> | 133 | 139 | 147 | 149 | 142 | 131 | 119 | 101 | 87  | 89  | 101 | 120 |
| Wet Water Years (28%)                       | 103 | 115 | 128 | 131 | 111 | 89  | 68  | 48  | 38  | 46  | 66  | 87  |
| Above Normal Years (14%)                    | 115 | 126 | 140 | 156 | 146 | 128 | 106 | 84  | 72  | 78  | 92  | 105 |
| Below Normal Years (18%)                    | 131 | 138 | 149 | 148 | 144 | 135 | 125 | 105 | 92  | 94  | 104 | 118 |
| Dry Water Years (24%)                       | 146 | 150 | 154 | 156 | 156 | 153 | 151 | 133 | 117 | 113 | 118 | 132 |
| Critical Water Years (16%)                  | 190 | 183 | 178 | 164 | 166 | 166 | 168 | 154 | 137 | 129 | 140 | 174 |

**Table F.2.7-4-8b. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPAIIVA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 131 | 160 | 168 | 170 | 153 | 160 | 126 | 98  | 84  | 75  | 87  | 104 |
| 20% Exceedance                              | 125 | 144 | 161 | 160 | 136 | 151 | 119 | 93  | 66  | 64  | 75  | 100 |
| 30% Exceedance                              | 122 | 134 | 156 | 147 | 125 | 139 | 114 | 87  | 61  | 59  | 69  | 96  |
| 40% Exceedance                              | 117 | 119 | 150 | 133 | 114 | 132 | 110 | 84  | 59  | 57  | 66  | 91  |
| 50% Exceedance                              | 111 | 113 | 140 | 123 | 107 | 119 | 101 | 77  | 57  | 52  | 61  | 84  |
| 60% Exceedance                              | 68  | 72  | 132 | 112 | 99  | 98  | 77  | 64  | 55  | 49  | 54  | 59  |
| 70% Exceedance                              | 60  | 64  | 113 | 95  | 87  | 68  | 53  | 50  | 53  | 47  | 50  | 54  |
| 80% Exceedance                              | 56  | 59  | 99  | 79  | 50  | 51  | 38  | 28  | 46  | 45  | 47  | 52  |
| 90% Exceedance                              | 51  | 56  | 70  | 39  | 19  | 24  | 17  | 7   | 28  | 42  | 42  | 49  |
| Full Simulation Period Average <sup>a</sup> | 94  | 103 | 129 | 116 | 100 | 104 | 83  | 64  | 56  | 56  | 63  | 77  |
| Wet Water Years (28%)                       | 54  | 61  | 103 | 78  | 58  | 48  | 33  | 25  | 36  | 50  | 48  | 51  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 121 | 96  | 94  | 76  | 61  | 52  | 48  | 46  | 53  |
| Below Normal Years (18%)                    | 114 | 118 | 132 | 123 | 102 | 122 | 92  | 71  | 56  | 53  | 64  | 91  |
| Dry Water Years (24%)                       | 121 | 128 | 135 | 132 | 122 | 131 | 114 | 87  | 59  | 55  | 75  | 94  |
| Critical Water Years (16%)                  | 135 | 166 | 162 | 147 | 142 | 150 | 118 | 94  | 86  | 80  | 84  | 102 |

**Table F.2.7-4-8c. Jones Pumping Plant South Delta Exports Chloride, Alt2woTUCPAIIVA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -43 | -10 | -5  | -8  | -24 | -12 | -46 | -56 | -54 | -54 | -49 | -53 |
| 20% Exceedance                              | -30 | -12 | -2  | -8  | -30 | -10 | -44 | -53 | -64 | -59 | -50 | -41 |
| 30% Exceedance                              | -16 | -11 | 1   | -19 | -37 | -18 | -39 | -49 | -62 | -60 | -52 | -34 |
| 40% Exceedance                              | -12 | -21 | 0   | -26 | -41 | -18 | -39 | -46 | -57 | -54 | -48 | -31 |
| 50% Exceedance                              | -11 | -21 | -8  | -30 | -43 | -24 | -37 | -35 | -39 | -45 | -42 | -28 |
| 60% Exceedance                              | -51 | -60 | -12 | -36 | -45 | -37 | -36 | -14 | -16 | -31 | -43 | -50 |
| 70% Exceedance                              | -54 | -62 | -24 | -48 | -50 | -55 | -35 | -12 | -3  | -24 | -40 | -49 |
| 80% Exceedance                              | -50 | -56 | -31 | -59 | -75 | -38 | -31 | -24 | 12  | -10 | -30 | -42 |
| 90% Exceedance                              | -44 | -53 | -53 | -82 | -64 | -36 | -35 | -33 | 1   | 14  | -14 | -32 |
| Full Simulation Period Average <sup>a</sup> | -39 | -36 | -19 | -33 | -42 | -27 | -36 | -37 | -31 | -32 | -38 | -43 |
| Wet Water Years (28%)                       | -49 | -53 | -25 | -53 | -53 | -41 | -34 | -23 | -1  | 3   | -19 | -36 |
| Above Normal Years (14%)                    | -52 | -65 | -10 | -35 | -51 | -34 | -29 | -23 | -20 | -30 | -46 | -52 |
| Below Normal Years (18%)                    | -17 | -20 | -17 | -25 | -42 | -13 | -32 | -34 | -36 | -42 | -40 | -26 |
| Dry Water Years (24%)                       | -25 | -23 | -19 | -25 | -34 | -23 | -37 | -46 | -57 | -58 | -43 | -37 |
| Critical Water Years (16%)                  | -55 | -17 | -16 | -18 | -24 | -17 | -50 | -59 | -51 | -48 | -57 | -72 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-4-9a. Jones Pumping Plant South Delta Exports Chloride, EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 175 | 170 | 173 | 178 | 177 | 172 | 173 | 155 | 138 | 129 | 136 | 157 |
| 20% Exceedance                              | 155 | 157 | 163 | 169 | 166 | 161 | 163 | 146 | 130 | 124 | 125 | 141 |
| 30% Exceedance                              | 138 | 145 | 156 | 166 | 162 | 157 | 153 | 137 | 123 | 118 | 121 | 129 |
| 40% Exceedance                              | 130 | 140 | 150 | 158 | 155 | 150 | 149 | 131 | 116 | 111 | 114 | 122 |
| 50% Exceedance                              | 122 | 134 | 148 | 153 | 151 | 144 | 139 | 112 | 96  | 96  | 104 | 113 |
| 60% Exceedance                              | 119 | 132 | 144 | 147 | 145 | 135 | 113 | 78  | 71  | 80  | 97  | 109 |
| 70% Exceedance                              | 114 | 126 | 137 | 143 | 138 | 123 | 88  | 62  | 56  | 71  | 90  | 103 |
| 80% Exceedance                              | 106 | 116 | 130 | 138 | 125 | 89  | 69  | 52  | 34  | 54  | 77  | 94  |
| 90% Exceedance                              | 95  | 109 | 124 | 121 | 83  | 60  | 52  | 40  | 27  | 28  | 56  | 81  |
| Full Simulation Period Average <sup>a</sup> | 133 | 139 | 147 | 149 | 142 | 131 | 119 | 101 | 87  | 89  | 101 | 120 |
| Wet Water Years (28%)                       | 103 | 115 | 128 | 131 | 111 | 89  | 68  | 48  | 38  | 46  | 66  | 87  |
| Above Normal Years (14%)                    | 115 | 126 | 140 | 156 | 146 | 128 | 106 | 84  | 72  | 78  | 92  | 105 |
| Below Normal Years (18%)                    | 131 | 138 | 149 | 148 | 144 | 135 | 125 | 105 | 92  | 94  | 104 | 118 |
| Dry Water Years (24%)                       | 146 | 150 | 154 | 156 | 156 | 153 | 151 | 133 | 117 | 113 | 118 | 132 |
| Critical Water Years (16%)                  | 190 | 183 | 178 | 164 | 166 | 166 | 168 | 154 | 137 | 129 | 140 | 174 |

**Table F.2.7-4-9b. Jones Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 130 | 159 | 168 | 171 | 155 | 139 | 121 | 97  | 89  | 102 | 112 | 116 |
| 20% Exceedance                              | 125 | 147 | 162 | 156 | 139 | 127 | 109 | 84  | 67  | 65  | 76  | 99  |
| 30% Exceedance                              | 121 | 133 | 156 | 151 | 127 | 119 | 105 | 81  | 60  | 60  | 70  | 94  |
| 40% Exceedance                              | 117 | 119 | 152 | 140 | 115 | 114 | 102 | 79  | 58  | 55  | 66  | 91  |
| 50% Exceedance                              | 109 | 110 | 141 | 123 | 107 | 109 | 96  | 72  | 56  | 51  | 61  | 85  |
| 60% Exceedance                              | 70  | 72  | 133 | 112 | 98  | 93  | 72  | 61  | 54  | 49  | 54  | 60  |
| 70% Exceedance                              | 60  | 64  | 113 | 95  | 87  | 65  | 53  | 47  | 51  | 46  | 50  | 55  |
| 80% Exceedance                              | 56  | 58  | 98  | 78  | 50  | 51  | 38  | 27  | 45  | 44  | 47  | 53  |
| 90% Exceedance                              | 52  | 56  | 70  | 39  | 19  | 24  | 17  | 7   | 28  | 41  | 44  | 49  |
| Full Simulation Period Average <sup>a</sup> | 94  | 102 | 129 | 117 | 99  | 93  | 79  | 62  | 58  | 59  | 66  | 79  |
| Wet Water Years (28%)                       | 54  | 61  | 103 | 77  | 58  | 46  | 33  | 24  | 36  | 49  | 48  | 51  |
| Above Normal Years (14%)                    | 64  | 61  | 129 | 121 | 95  | 84  | 71  | 56  | 52  | 46  | 46  | 55  |
| Below Normal Years (18%)                    | 114 | 117 | 132 | 122 | 101 | 104 | 85  | 67  | 56  | 51  | 63  | 91  |
| Dry Water Years (24%)                       | 121 | 129 | 136 | 136 | 124 | 115 | 104 | 80  | 59  | 54  | 73  | 92  |
| Critical Water Years (16%)                  | 129 | 162 | 164 | 149 | 136 | 137 | 122 | 100 | 100 | 102 | 110 | 119 |

**Table F.2.7-4-9c. Jones Pumping Plant South Delta Exports Chloride, Alt2wTUCPwoVA minus EXP1, Monthly CI (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -45 | -11 | -5  | -7  | -22 | -33 | -52 | -57 | -50 | -27 | -24 | -40 |
| 20% Exceedance                              | -30 | -10 | -2  | -13 | -27 | -34 | -54 | -62 | -63 | -59 | -49 | -42 |
| 30% Exceedance                              | -17 | -12 | 1   | -14 | -35 | -38 | -48 | -55 | -63 | -59 | -51 | -35 |
| 40% Exceedance                              | -13 | -22 | 2   | -18 | -40 | -36 | -48 | -52 | -58 | -56 | -48 | -31 |
| 50% Exceedance                              | -13 | -24 | -7  | -30 | -43 | -35 | -43 | -40 | -39 | -45 | -42 | -28 |
| 60% Exceedance                              | -49 | -60 | -11 | -36 | -46 | -42 | -41 | -18 | -17 | -31 | -43 | -49 |
| 70% Exceedance                              | -53 | -62 | -24 | -48 | -51 | -58 | -36 | -15 | -5  | -25 | -40 | -49 |
| 80% Exceedance                              | -50 | -57 | -31 | -59 | -75 | -39 | -31 | -24 | 11  | -10 | -29 | -41 |
| 90% Exceedance                              | -43 | -53 | -54 | -82 | -64 | -36 | -34 | -33 | 1   | 13  | -13 | -32 |
| Full Simulation Period Average <sup>a</sup> | -39 | -37 | -18 | -32 | -42 | -38 | -41 | -39 | -29 | -30 | -35 | -40 |
| Wet Water Years (28%)                       | -49 | -54 | -25 | -54 | -54 | -44 | -35 | -24 | -1  | 3   | -18 | -36 |
| Above Normal Years (14%)                    | -51 | -65 | -12 | -36 | -51 | -44 | -35 | -28 | -20 | -32 | -46 | -51 |
| Below Normal Years (18%)                    | -16 | -21 | -17 | -26 | -43 | -31 | -39 | -39 | -37 | -43 | -40 | -26 |
| Dry Water Years (24%)                       | -25 | -21 | -18 | -20 | -32 | -39 | -47 | -53 | -58 | -58 | -45 | -40 |
| Critical Water Years (16%)                  | -61 | -21 | -14 | -16 | -30 | -29 | -47 | -54 | -37 | -27 | -31 | -55 |

<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Table F.2.7-4-10a. Jones Pumping Plant South Delta Exports Chloride, EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 175 | 170 | 173 | 178 | 177 | 172 | 173 | 155 | 138 | 129 | 136 | 157 |
| 20% Exceedance                              | 155 | 157 | 163 | 169 | 166 | 161 | 163 | 146 | 130 | 124 | 125 | 141 |
| 30% Exceedance                              | 138 | 145 | 156 | 166 | 162 | 157 | 153 | 137 | 123 | 118 | 121 | 129 |
| 40% Exceedance                              | 130 | 140 | 150 | 158 | 155 | 150 | 149 | 131 | 116 | 111 | 114 | 122 |
| 50% Exceedance                              | 122 | 134 | 148 | 153 | 151 | 144 | 139 | 112 | 96  | 96  | 104 | 113 |
| 60% Exceedance                              | 119 | 132 | 144 | 147 | 145 | 135 | 113 | 78  | 71  | 80  | 97  | 109 |
| 70% Exceedance                              | 114 | 126 | 137 | 143 | 138 | 123 | 88  | 62  | 56  | 71  | 90  | 103 |
| 80% Exceedance                              | 106 | 116 | 130 | 138 | 125 | 89  | 69  | 52  | 34  | 54  | 77  | 94  |
| 90% Exceedance                              | 95  | 109 | 124 | 121 | 83  | 60  | 52  | 40  | 27  | 28  | 56  | 81  |
| Full Simulation Period Average <sup>a</sup> | 133 | 139 | 147 | 149 | 142 | 131 | 119 | 101 | 87  | 89  | 101 | 120 |
| Wet Water Years (28%)                       | 103 | 115 | 128 | 131 | 111 | 89  | 68  | 48  | 38  | 46  | 66  | 87  |
| Above Normal Years (14%)                    | 115 | 126 | 140 | 156 | 146 | 128 | 106 | 84  | 72  | 78  | 92  | 105 |
| Below Normal Years (18%)                    | 131 | 138 | 149 | 148 | 144 | 135 | 125 | 105 | 92  | 94  | 104 | 118 |
| Dry Water Years (24%)                       | 146 | 150 | 154 | 156 | 156 | 153 | 151 | 133 | 117 | 113 | 118 | 132 |
| Critical Water Years (16%)                  | 190 | 183 | 178 | 164 | 166 | 166 | 168 | 154 | 137 | 129 | 140 | 174 |

**Table F.2.7-4-10b. Jones Pumping Plant South Delta Exports Chloride, NAA, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | 128 | 157 | 168 | 170 | 155 | 137 | 121 | 98  | 96  | 102 | 112 | 117 |
| 20% Exceedance                              | 125 | 146 | 163 | 159 | 139 | 125 | 112 | 88  | 63  | 62  | 79  | 101 |
| 30% Exceedance                              | 119 | 131 | 157 | 152 | 122 | 119 | 106 | 83  | 59  | 56  | 68  | 93  |
| 40% Exceedance                              | 117 | 124 | 154 | 136 | 115 | 114 | 102 | 81  | 57  | 53  | 63  | 90  |
| 50% Exceedance                              | 110 | 113 | 144 | 122 | 105 | 108 | 97  | 77  | 55  | 51  | 58  | 81  |
| 60% Exceedance                              | 68  | 73  | 134 | 110 | 97  | 95  | 72  | 63  | 53  | 48  | 52  | 56  |
| 70% Exceedance                              | 60  | 63  | 116 | 94  | 85  | 66  | 53  | 50  | 50  | 46  | 47  | 52  |
| 80% Exceedance                              | 55  | 59  | 97  | 76  | 50  | 52  | 38  | 29  | 46  | 44  | 45  | 51  |
| 90% Exceedance                              | 51  | 56  | 71  | 39  | 19  | 25  | 17  | 7   | 28  | 41  | 42  | 49  |
| Full Simulation Period Average <sup>a</sup> | 93  | 102 | 130 | 116 | 99  | 92  | 79  | 64  | 57  | 58  | 65  | 78  |
| Wet Water Years (28%)                       | 54  | 61  | 104 | 78  | 59  | 46  | 33  | 25  | 36  | 48  | 46  | 50  |
| Above Normal Years (14%)                    | 63  | 61  | 130 | 120 | 95  | 84  | 72  | 61  | 52  | 47  | 44  | 51  |
| Below Normal Years (18%)                    | 113 | 119 | 133 | 122 | 101 | 103 | 85  | 69  | 55  | 50  | 61  | 91  |
| Dry Water Years (24%)                       | 119 | 128 | 136 | 134 | 123 | 114 | 104 | 82  | 56  | 52  | 70  | 89  |
| Critical Water Years (16%)                  | 130 | 158 | 168 | 145 | 136 | 134 | 123 | 102 | 101 | 103 | 113 | 121 |

**Table F.2.7-4-10c. Jones Pumping Plant South Delta Exports Chloride, NAA minus EXP1, Monthly Cl (mg/L)**

| Statistic                                   | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 10% Exceedance                              | -46 | -13 | -5  | -8  | -22 | -35 | -52 | -56 | -43 | -28 | -24 | -40 |
| 20% Exceedance                              | -31 | -11 | -1  | -10 | -28 | -36 | -51 | -58 | -67 | -62 | -47 | -40 |
| 30% Exceedance                              | -19 | -14 | 1   | -14 | -40 | -38 | -47 | -53 | -64 | -62 | -53 | -36 |
| 40% Exceedance                              | -13 | -17 | 4   | -22 | -41 | -37 | -47 | -50 | -59 | -58 | -51 | -32 |
| 50% Exceedance                              | -12 | -22 | -4  | -31 | -46 | -36 | -41 | -35 | -40 | -45 | -46 | -32 |
| 60% Exceedance                              | -51 | -59 | -10 | -37 | -47 | -40 | -41 | -15 | -18 | -32 | -45 | -52 |
| 70% Exceedance                              | -54 | -63 | -21 | -49 | -53 | -57 | -36 | -11 | -5  | -25 | -42 | -51 |
| 80% Exceedance                              | -51 | -57 | -32 | -61 | -74 | -37 | -31 | -23 | 11  | -10 | -32 | -43 |
| 90% Exceedance                              | -44 | -53 | -52 | -82 | -64 | -35 | -35 | -34 | 1   | 13  | -14 | -33 |
| Full Simulation Period Average <sup>a</sup> | -40 | -37 | -17 | -33 | -43 | -38 | -40 | -37 | -30 | -31 | -36 | -42 |
| Wet Water Years (28%)                       | -49 | -54 | -24 | -53 | -53 | -43 | -35 | -23 | -2  | 1   | -20 | -37 |
| Above Normal Years (14%)                    | -52 | -65 | -10 | -37 | -51 | -43 | -34 | -24 | -21 | -31 | -48 | -54 |
| Below Normal Years (18%)                    | -18 | -19 | -16 | -26 | -44 | -31 | -39 | -36 | -37 | -44 | -43 | -27 |
| Dry Water Years (24%)                       | -27 | -23 | -18 | -22 | -33 | -40 | -47 | -51 | -60 | -61 | -48 | -43 |
| Critical Water Years (16%)                  | -59 | -25 | -9  | -19 | -31 | -32 | -45 | -51 | -35 | -25 | -28 | -53 |

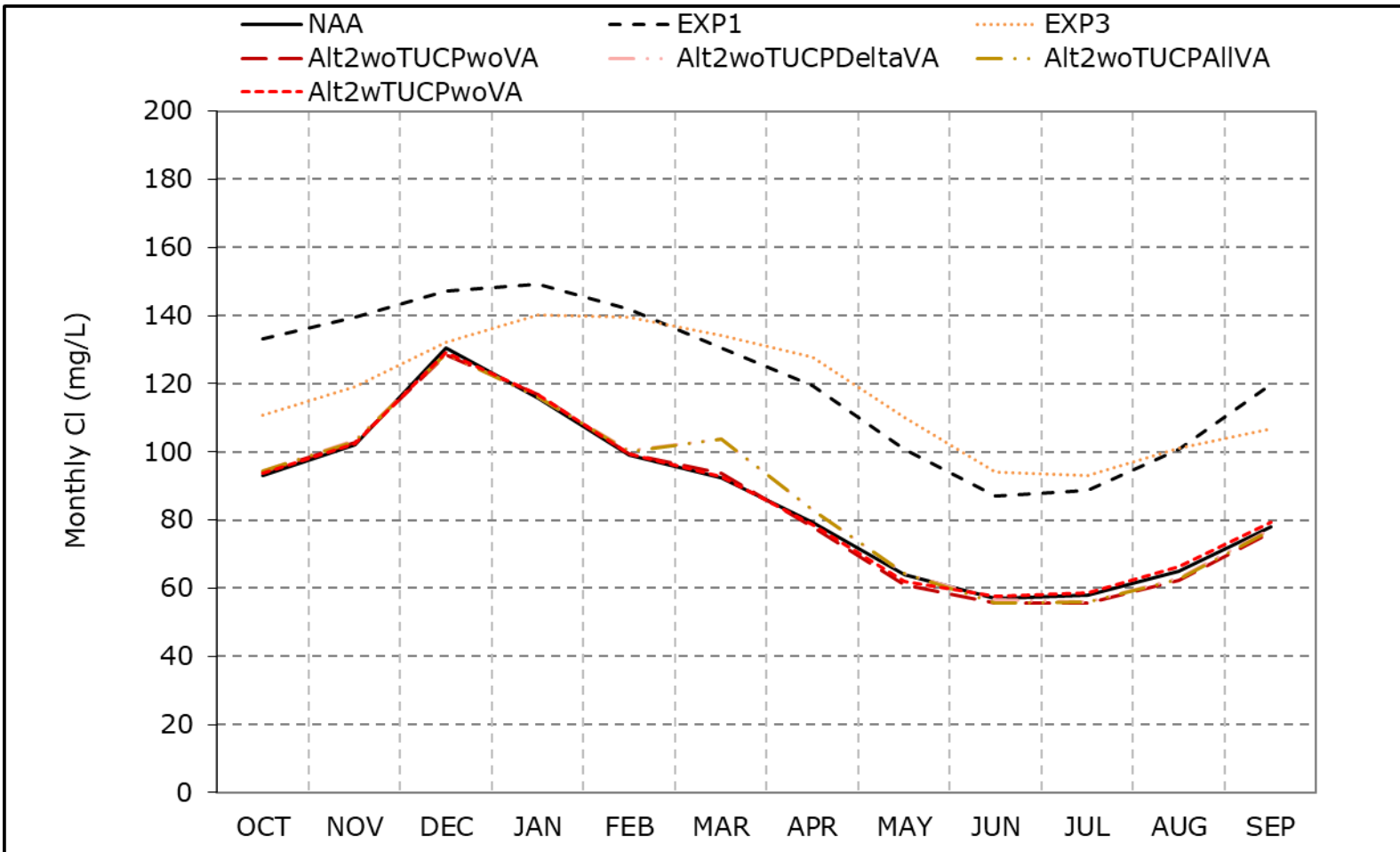
<sup>a</sup> Based on the 100-year simulation period.

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

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

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

**Figure F.2.7-4-1. Jones Pumping Plant South Delta Exports Chloride, Long-Term Average Cl**



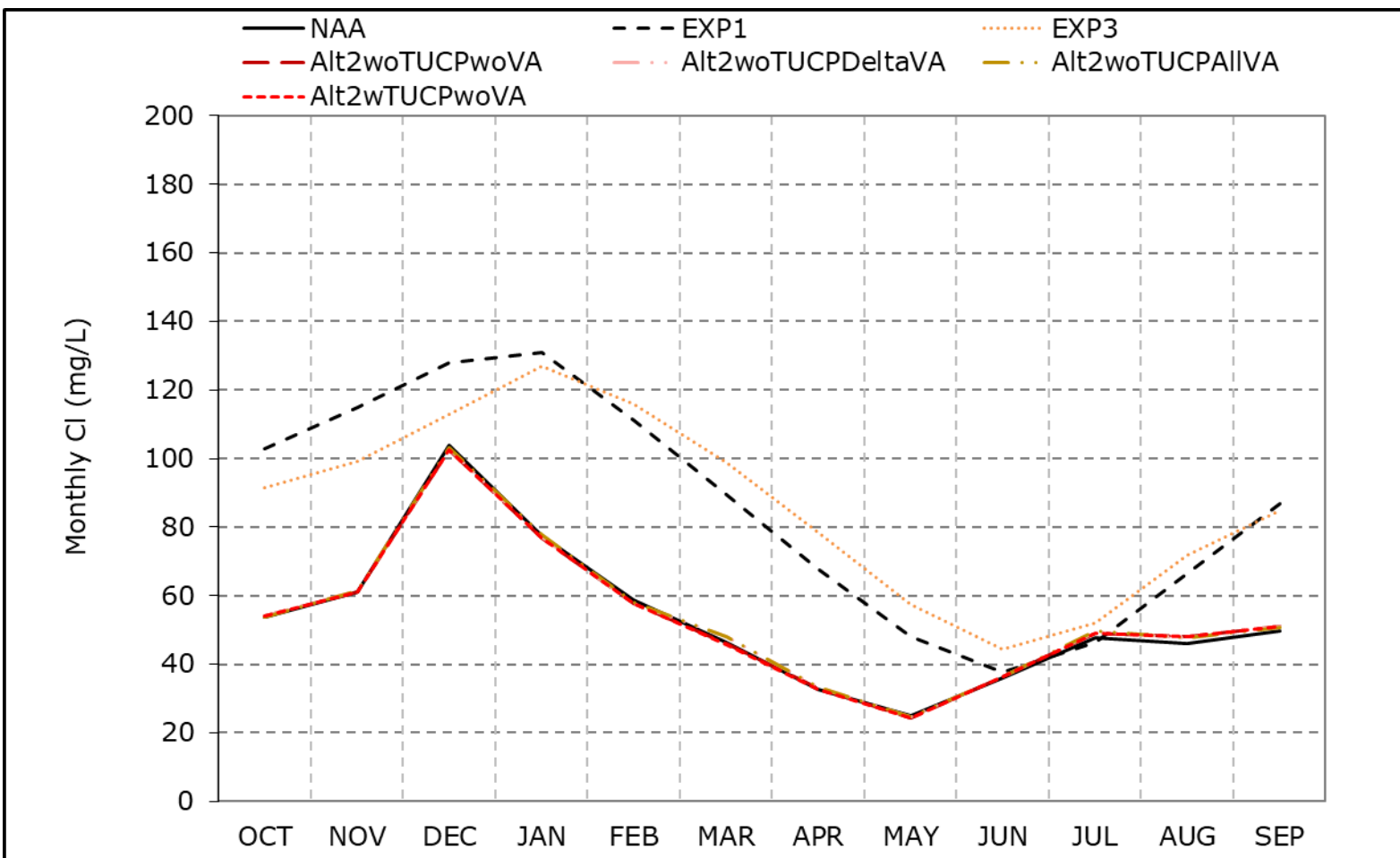
\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.7-4-2. Jones Pumping Plant South Delta Exports Chloride, Wet Year Average Cl**

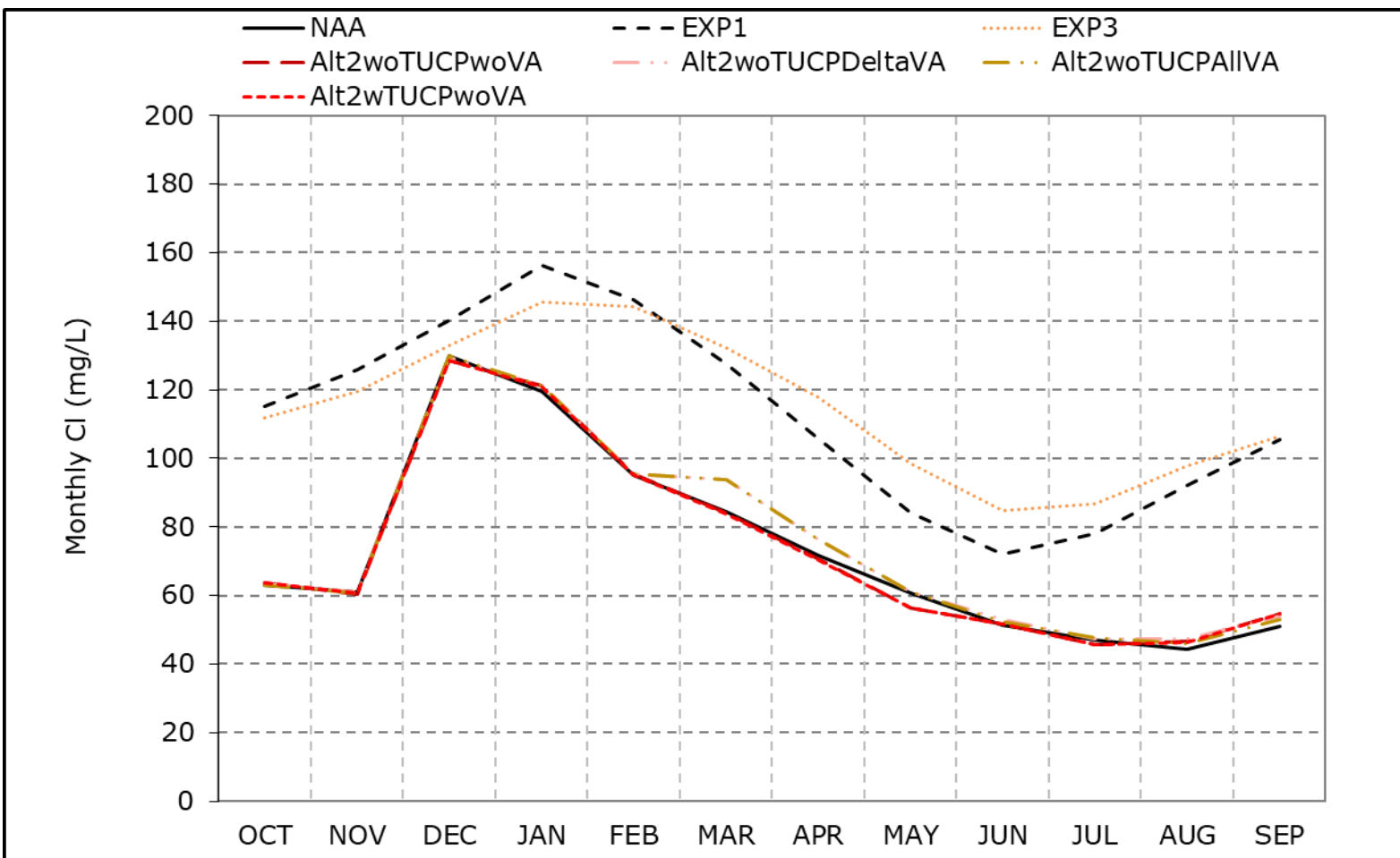


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-3. Jones Pumping Plant South Delta Exports Chloride, Above Normal Year Average Cl**

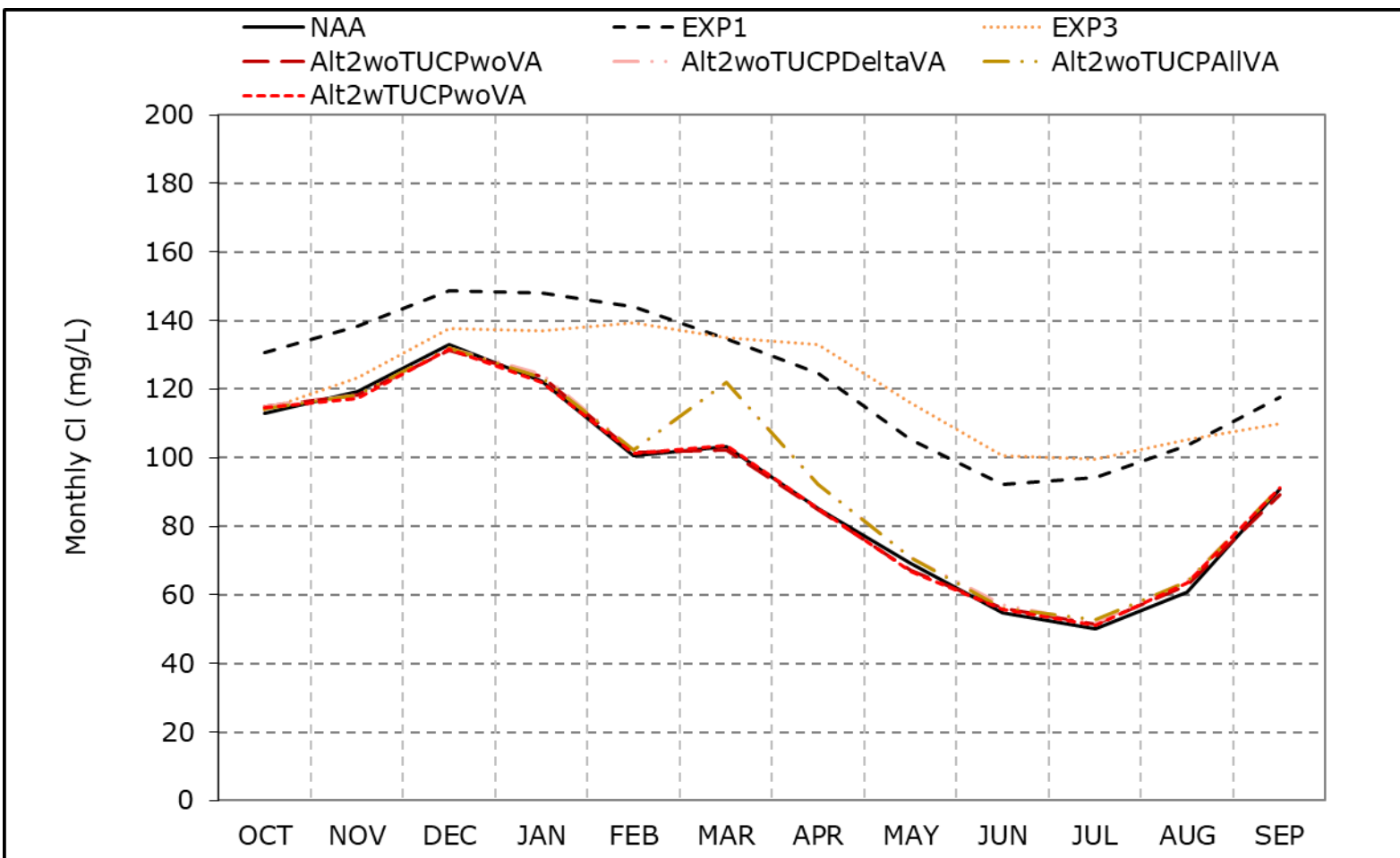


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-4. Jones Pumping Plant South Delta Exports Chloride, Below Normal Year Average CI**

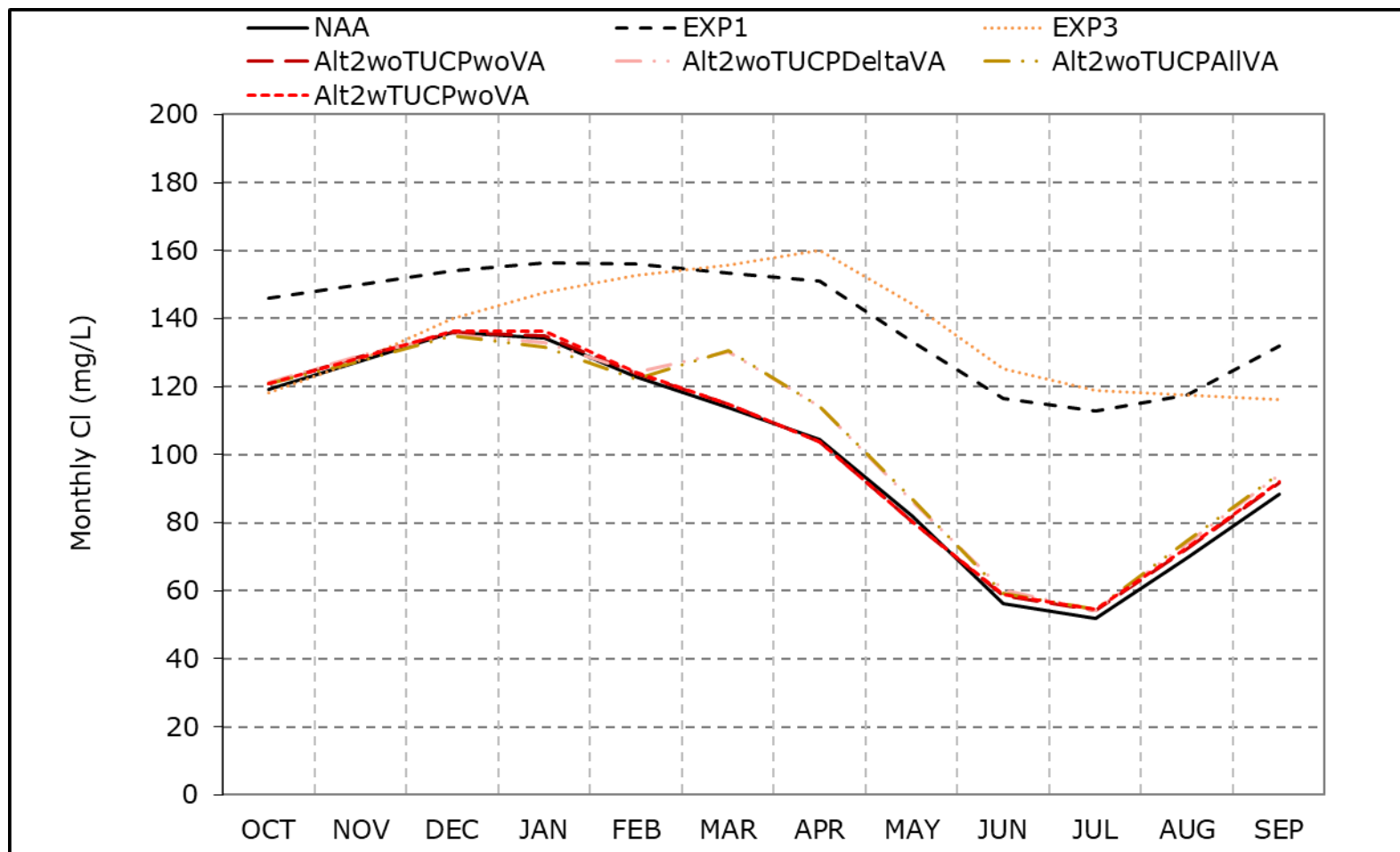


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-5. Jones Pumping Plant South Delta Exports Chloride, Dry Year Average Cl**

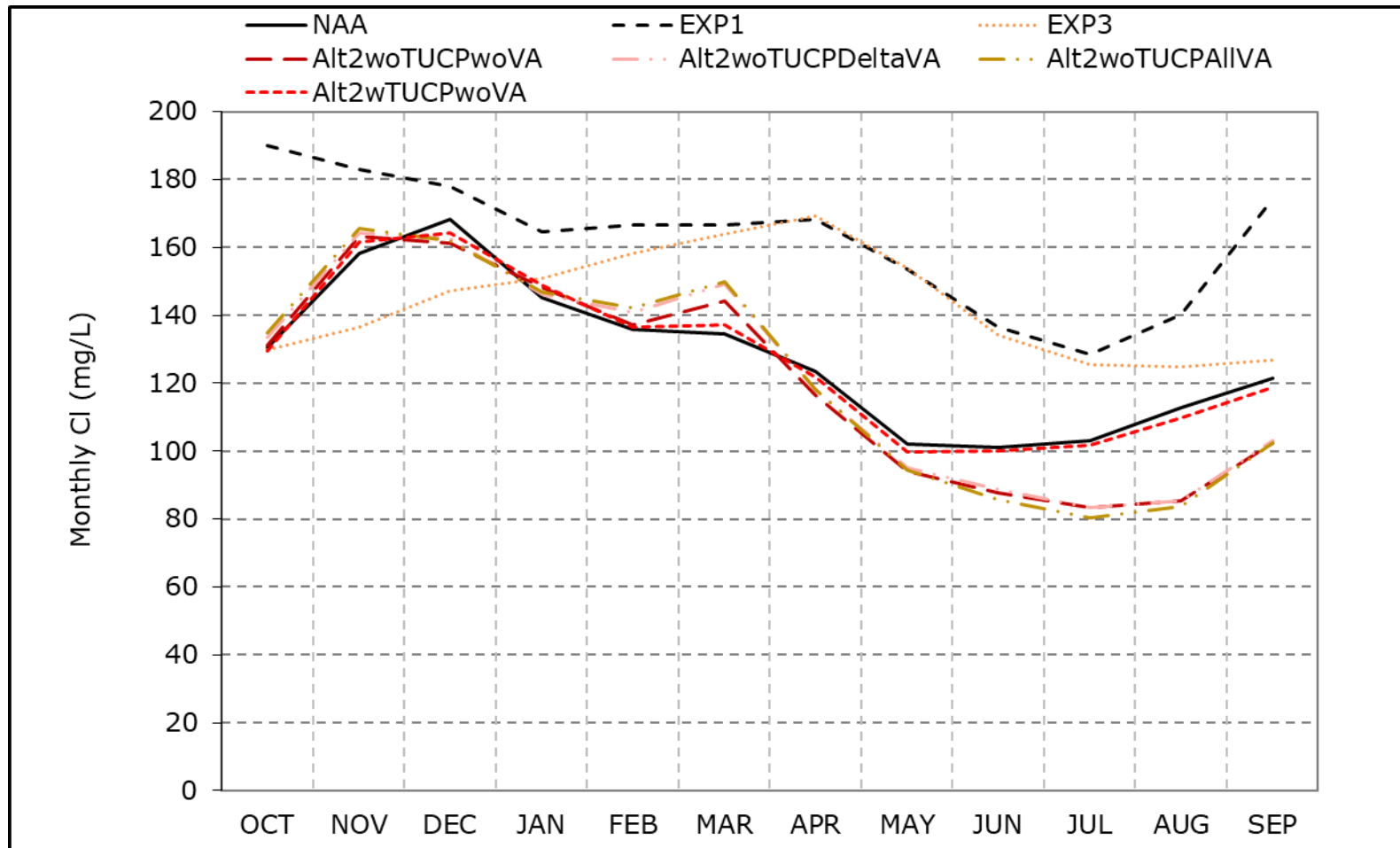


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-6. Jones Pumping Plant South Delta Exports Chloride, Critical Year Average Cl**

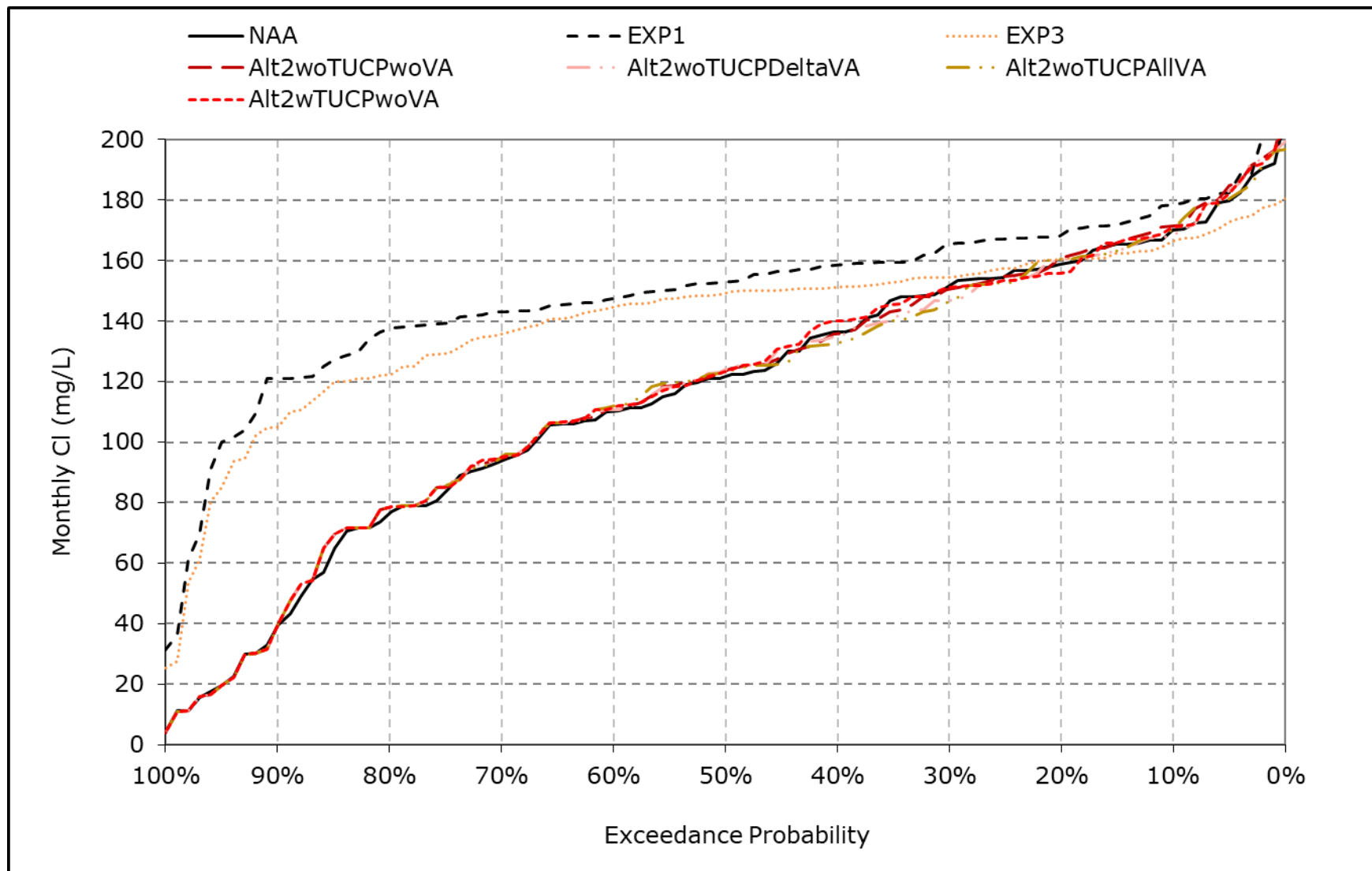


\*As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999).

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

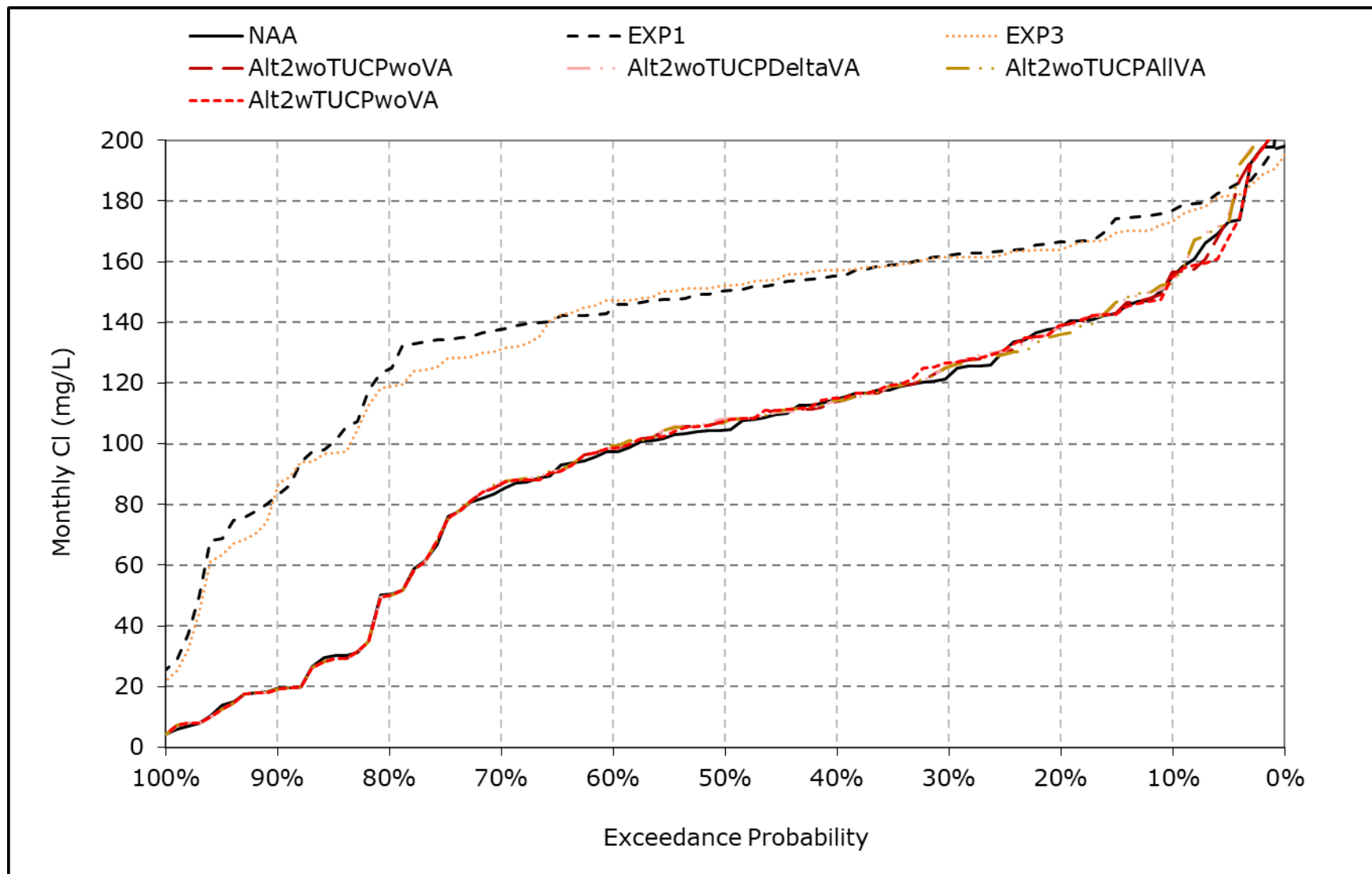
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-7. Jones Pumping Plant South Delta Exports Chloride, January CI**



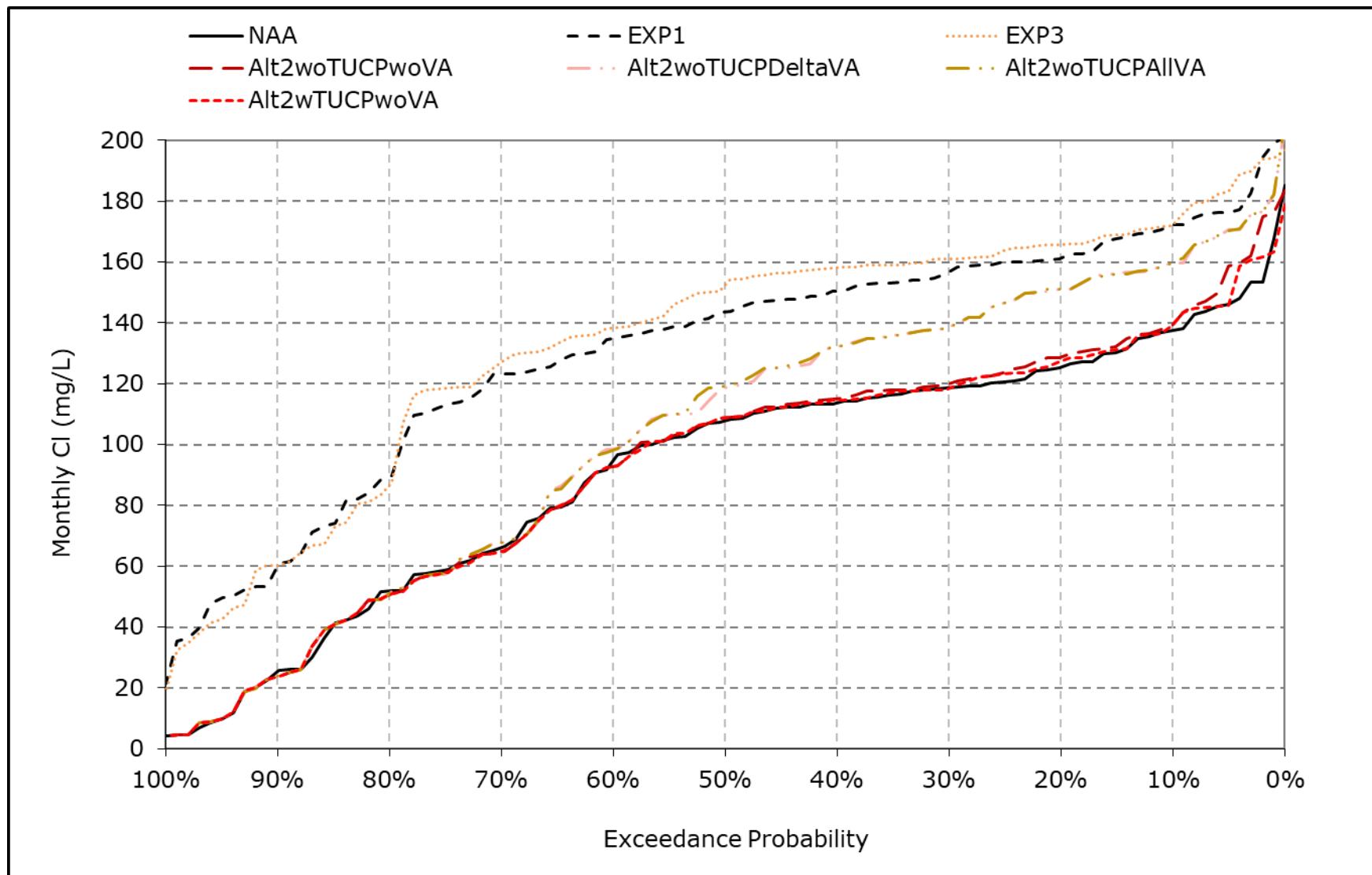
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-8. Jones Pumping Plant South Delta Exports Chloride, February CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

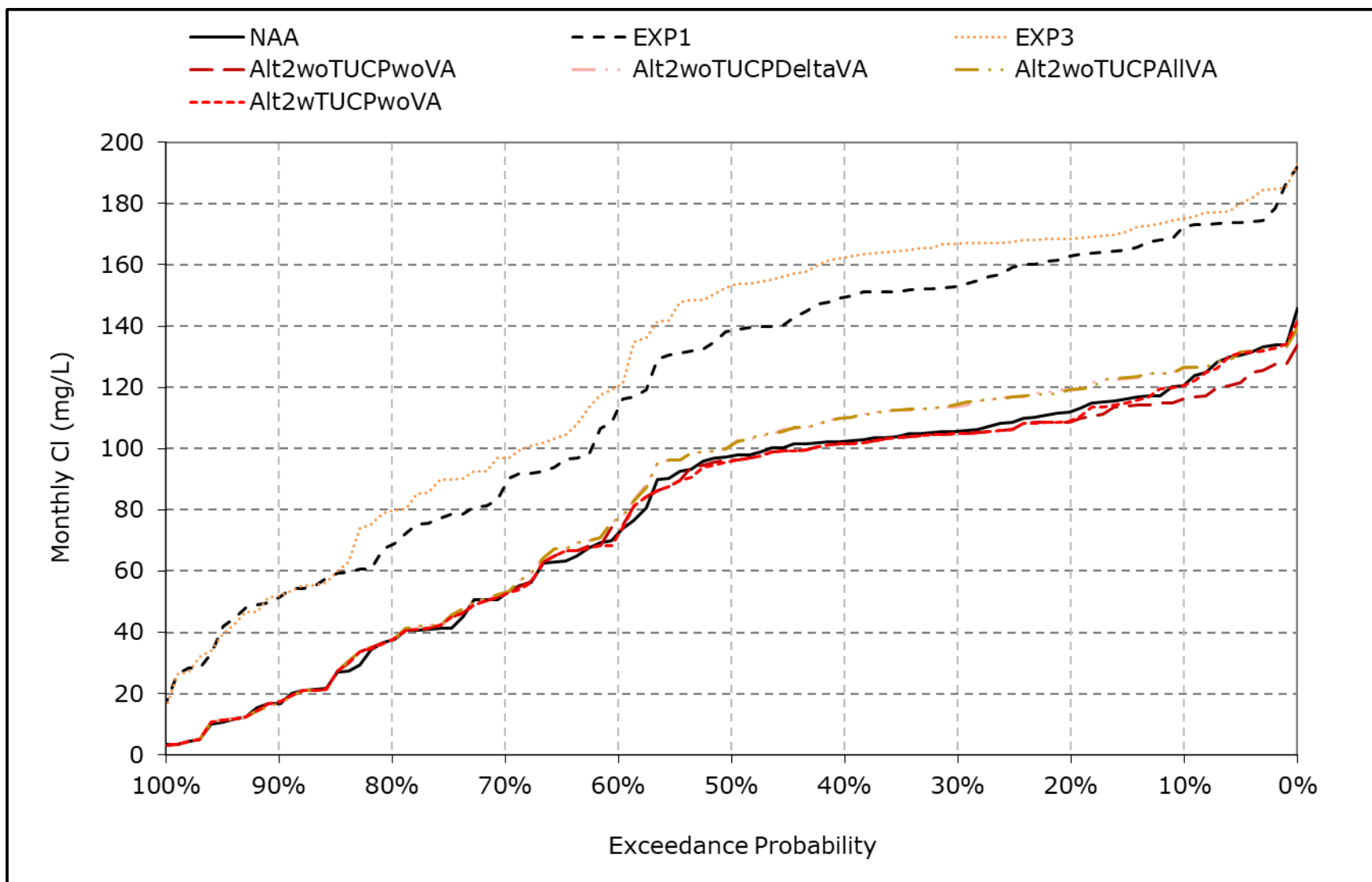
**Figure F.2.7-4-9. Jones Pumping Plant South Delta Exports Chloride, March CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

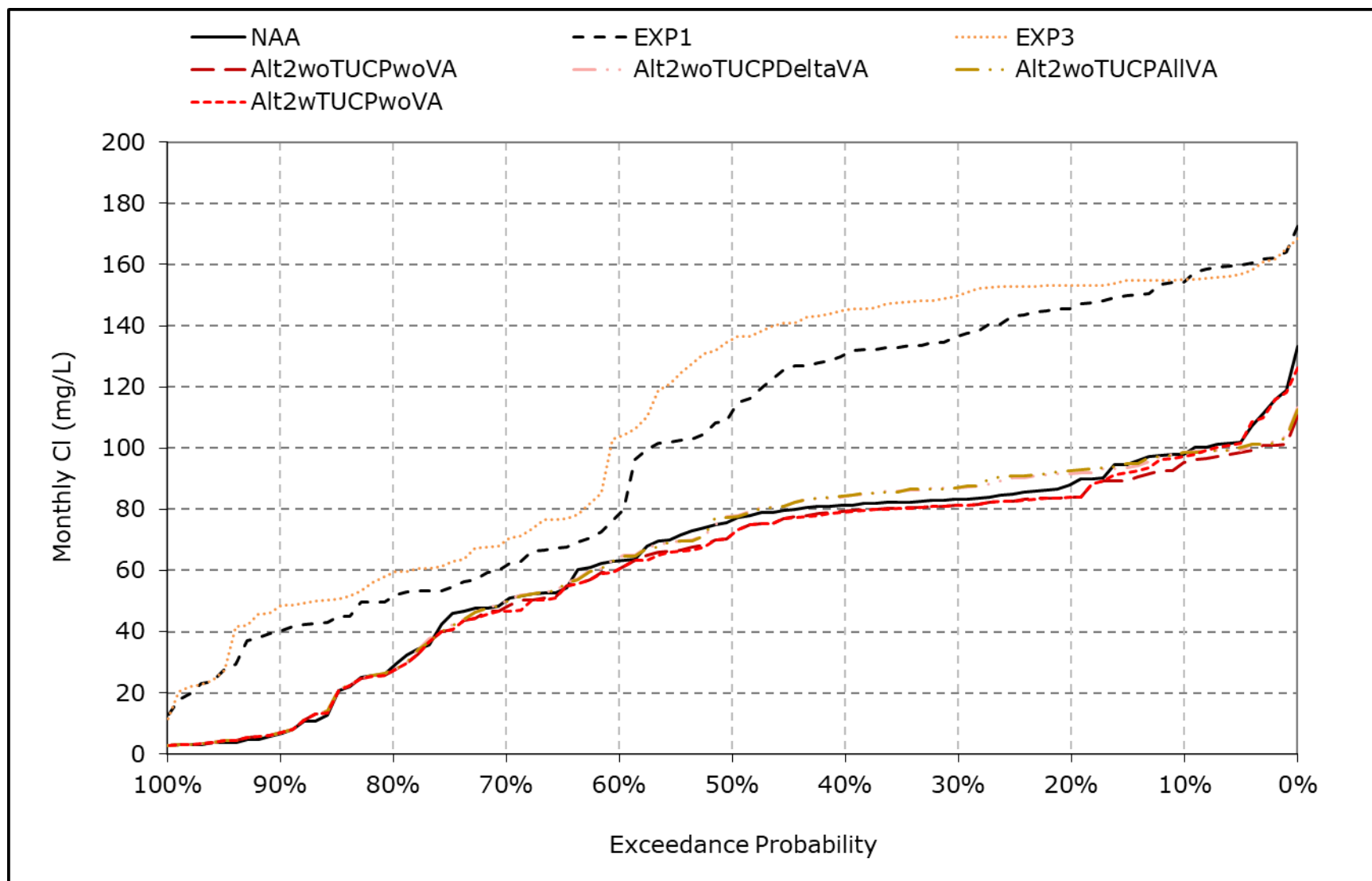


**Figure F.2.7-4-10. Jones Pumping Plant South Delta Exports Chloride, April CI**



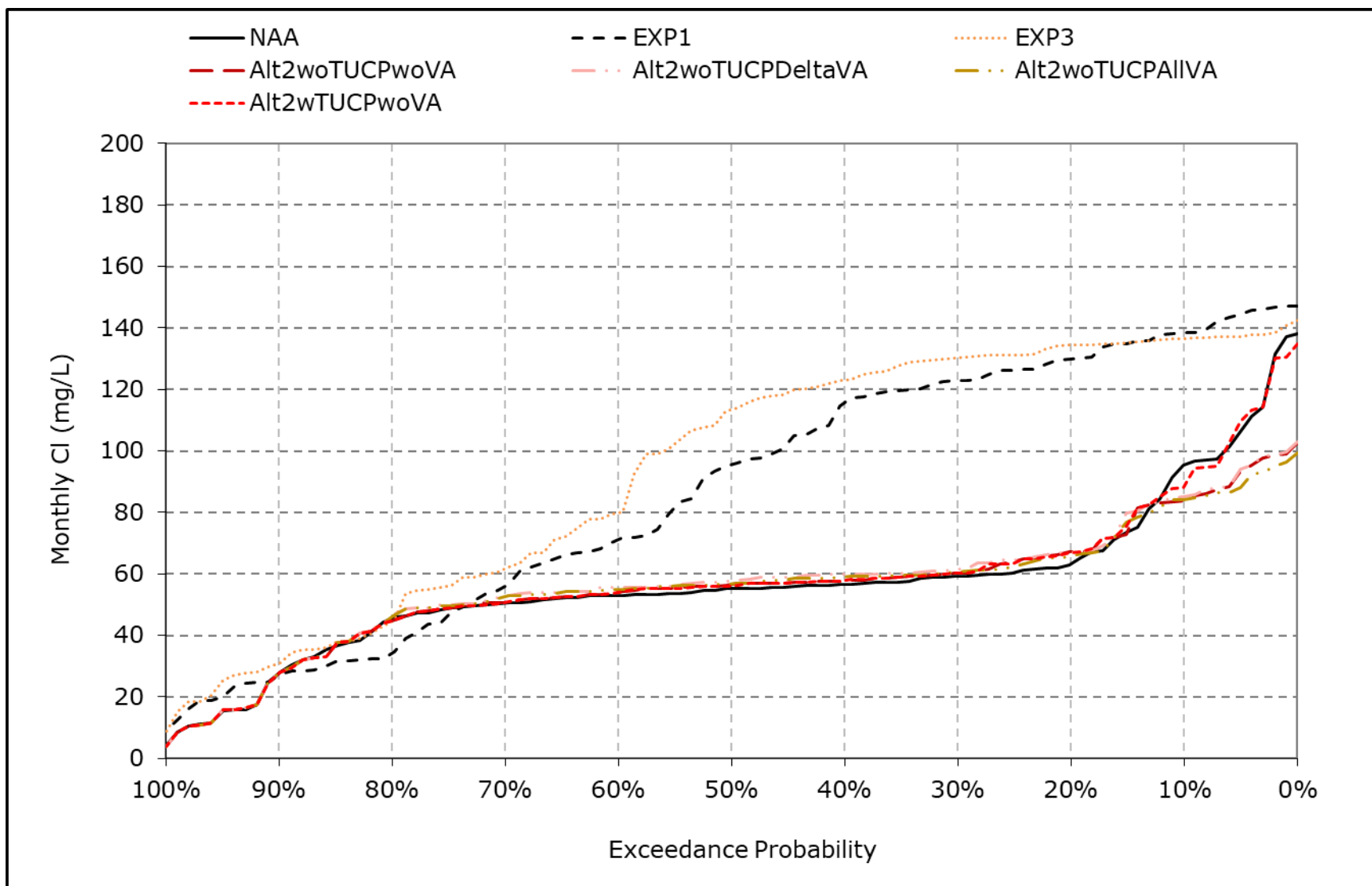
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-11. Jones Pumping Plant South Delta Exports Chloride, May CI**



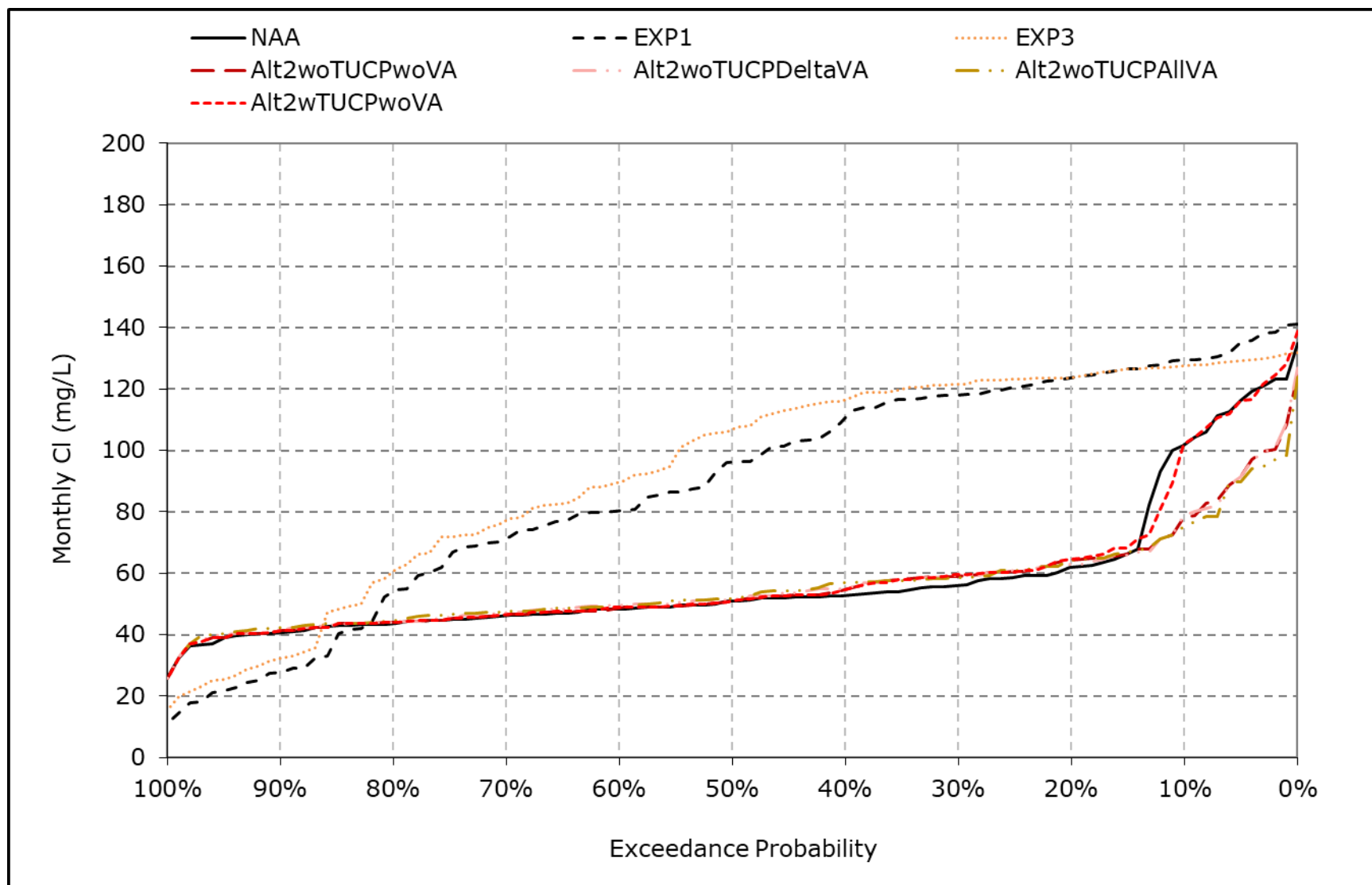
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-12. Jones Pumping Plant South Delta Exports Chloride, June CI**



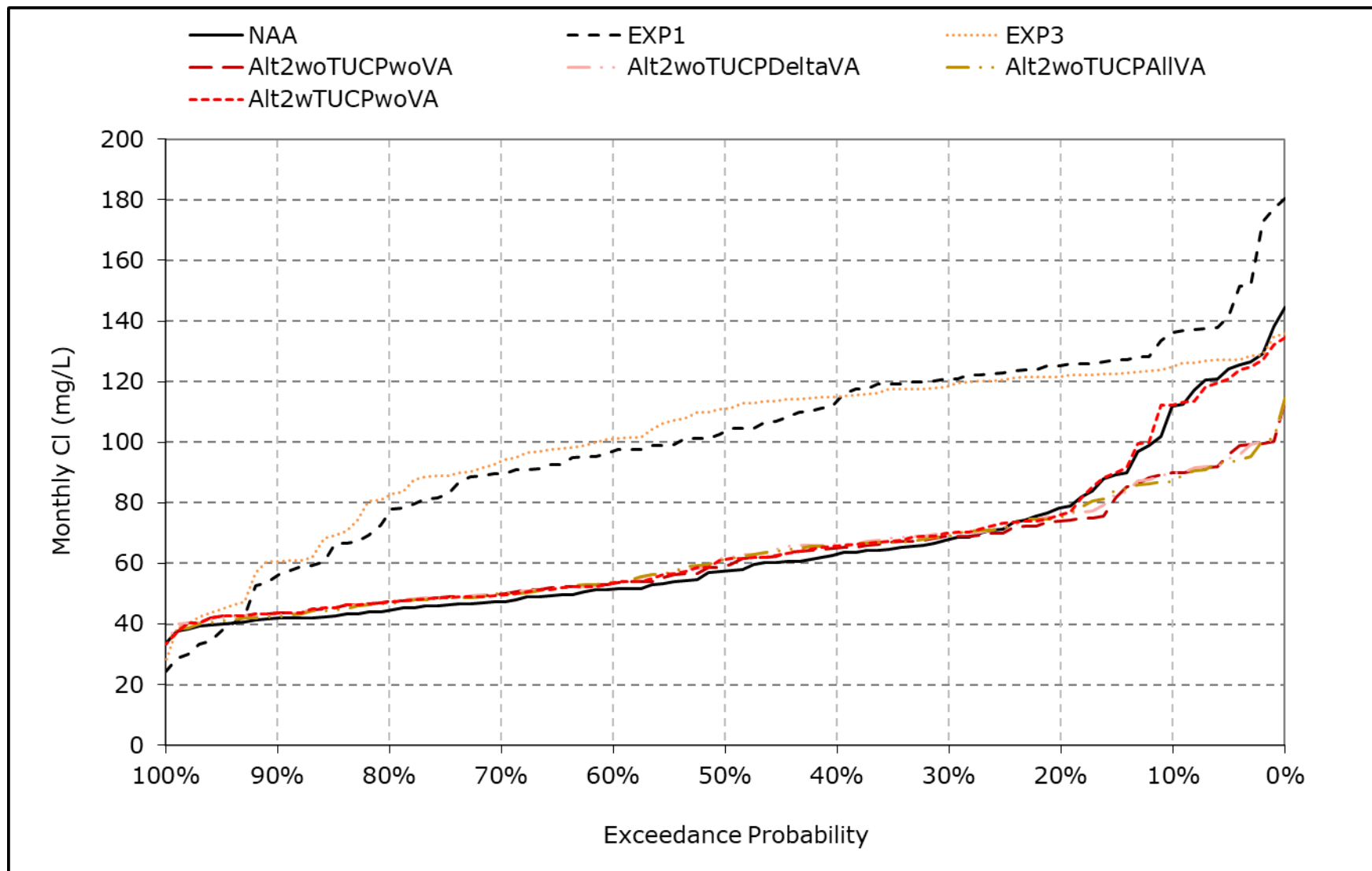
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-13. Jones Pumping Plant South Delta Exports Chloride, July CI**



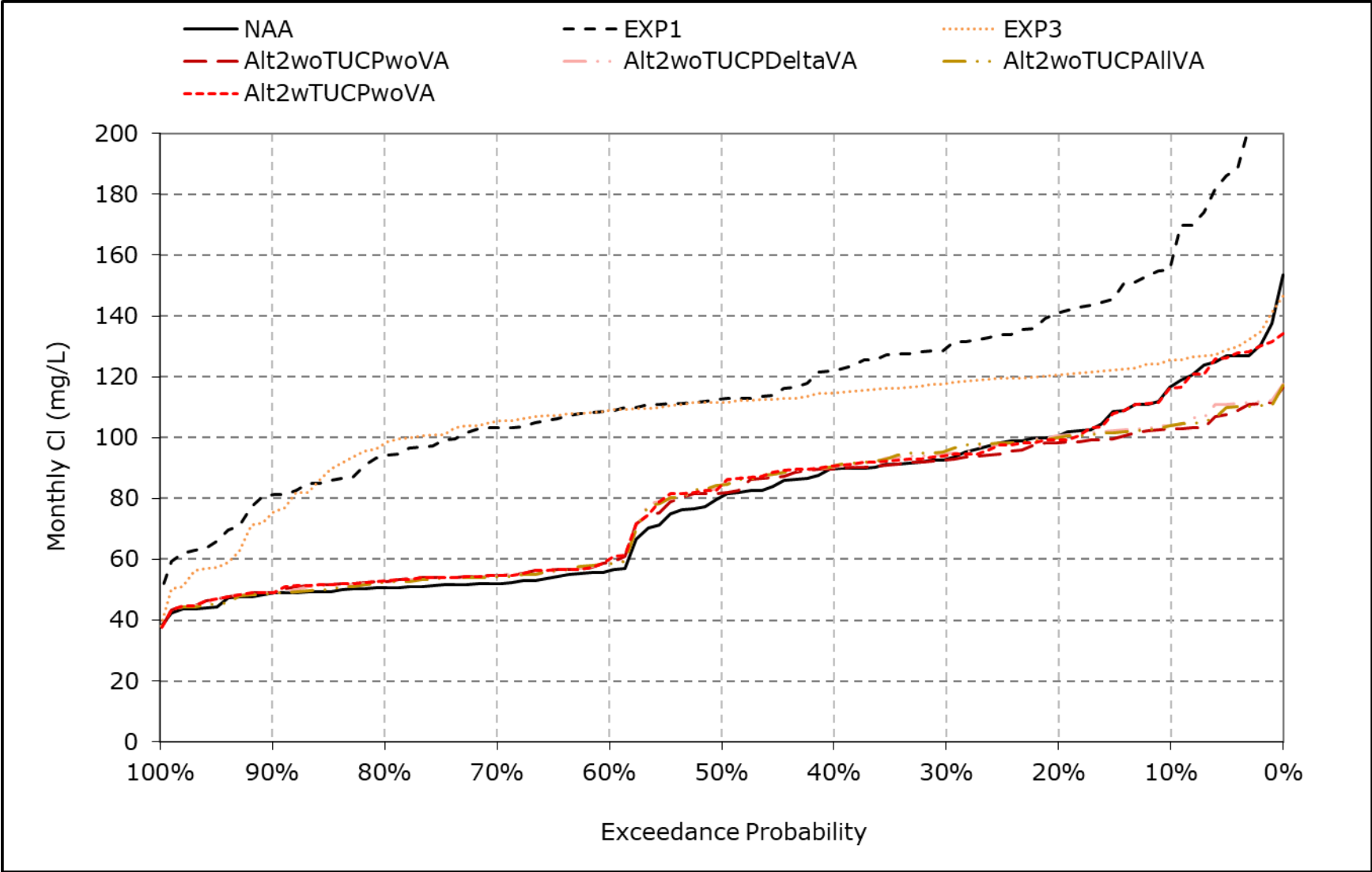
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-14. Jones Pumping Plant South Delta Exports Chloride, August CI**



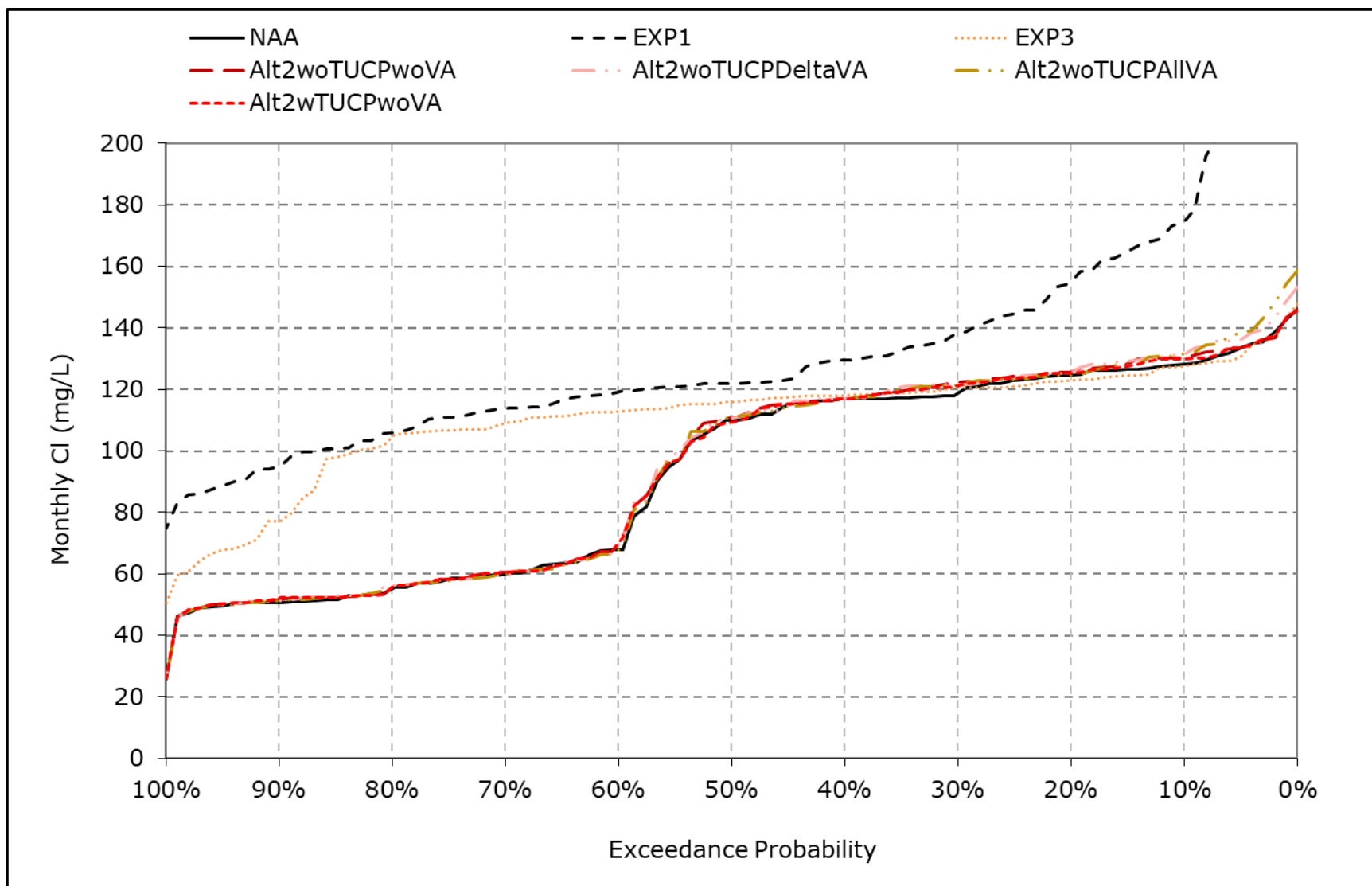
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-15. Jones Pumping Plant South Delta Exports Chloride, September CI**



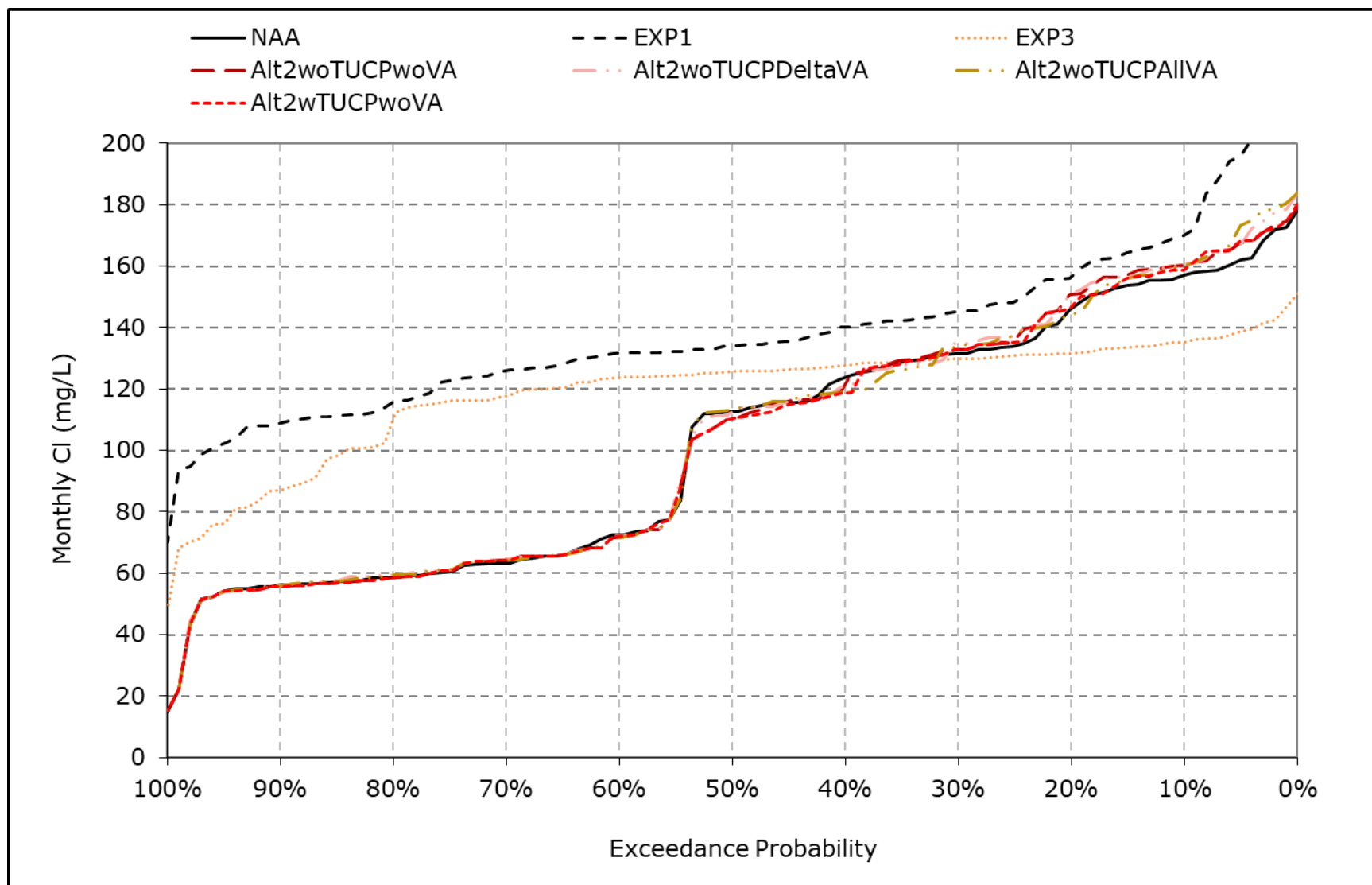
\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

**Figure F.2.7-4-16. Jones Pumping Plant South Delta Exports Chloride, October CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.

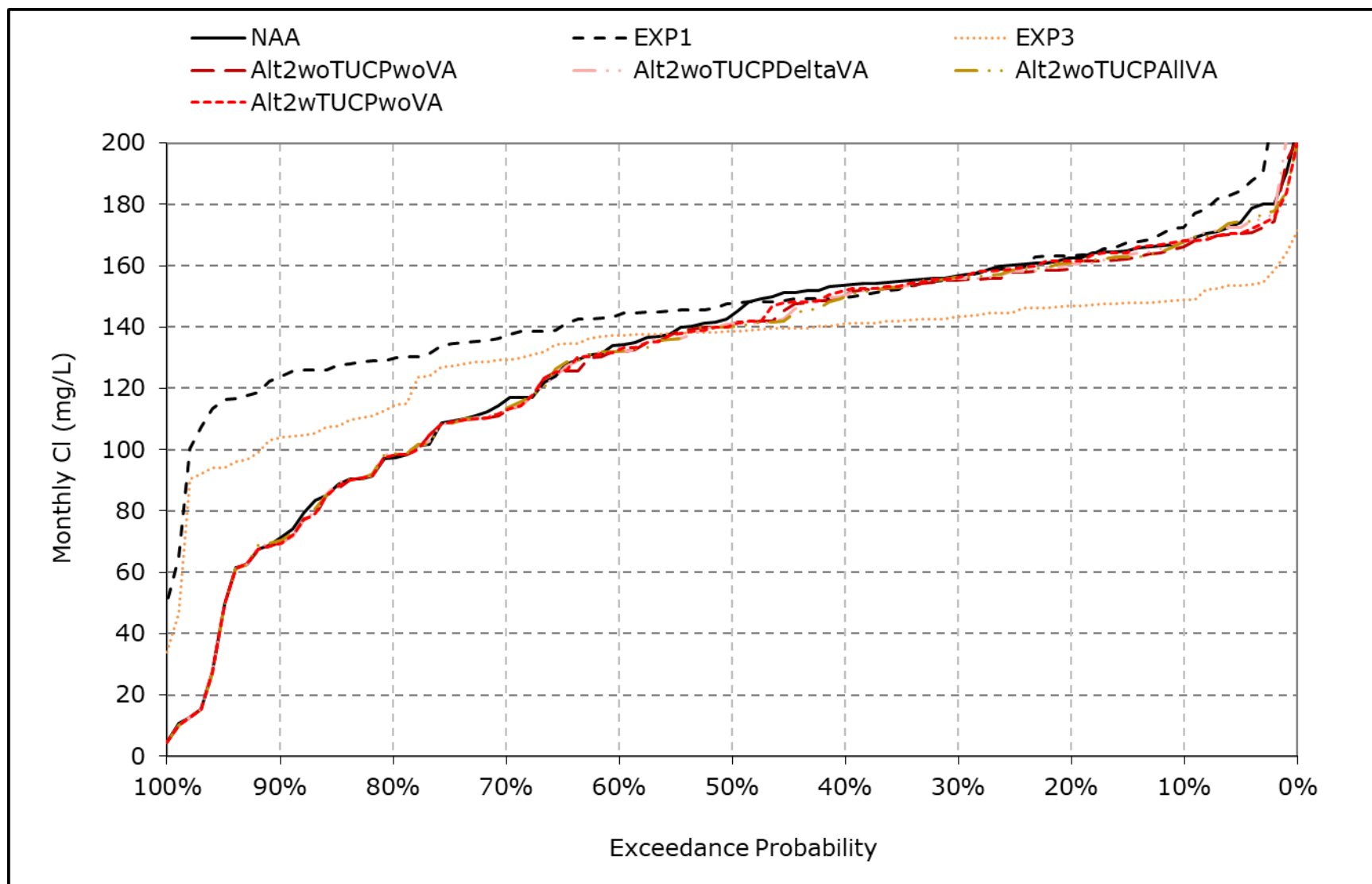
**Figure F.2.7-4-17. Jones Pumping Plant South Delta Exports Chloride, November CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.



**Figure F.2.7-4-18. Jones Pumping Plant South Delta Exports Chloride, December CI**



\*All scenarios are simulated at 2022 Median climate condition and 15 cm sea level rise.