

APPENDIX 5A, SECTION C
MODELING TECHNICAL APPENDIX –
ATTACHMENT 1 – DSM2 MODEL RESULTS
FOR EXISTING CONDITION AND ALTERNATIVES
AT 2020

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28	Table 5A-C1.7.5-C. Middle River (near Howard Road Bridge) Mean Monthly Stage Location	
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Appendix 5A, Section C

**Modeling Technical Appendix – Attachment 1 – DSM2
Model Results for Existing Conditions and Alternatives
at 2020**

This attachment summarizes the DSM2 modeling results for Existing Conditions conducted for the Delta Conveyance Project Final Environmental Impact Report (EIR).

C.1 DSM2 Modeling Results for Existing Condition

C.1.1 Sacramento River Upstream of Delta Cross Channel

Figure 5A-C1.1.1-A. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Probability of Exceedance for Existing Condition

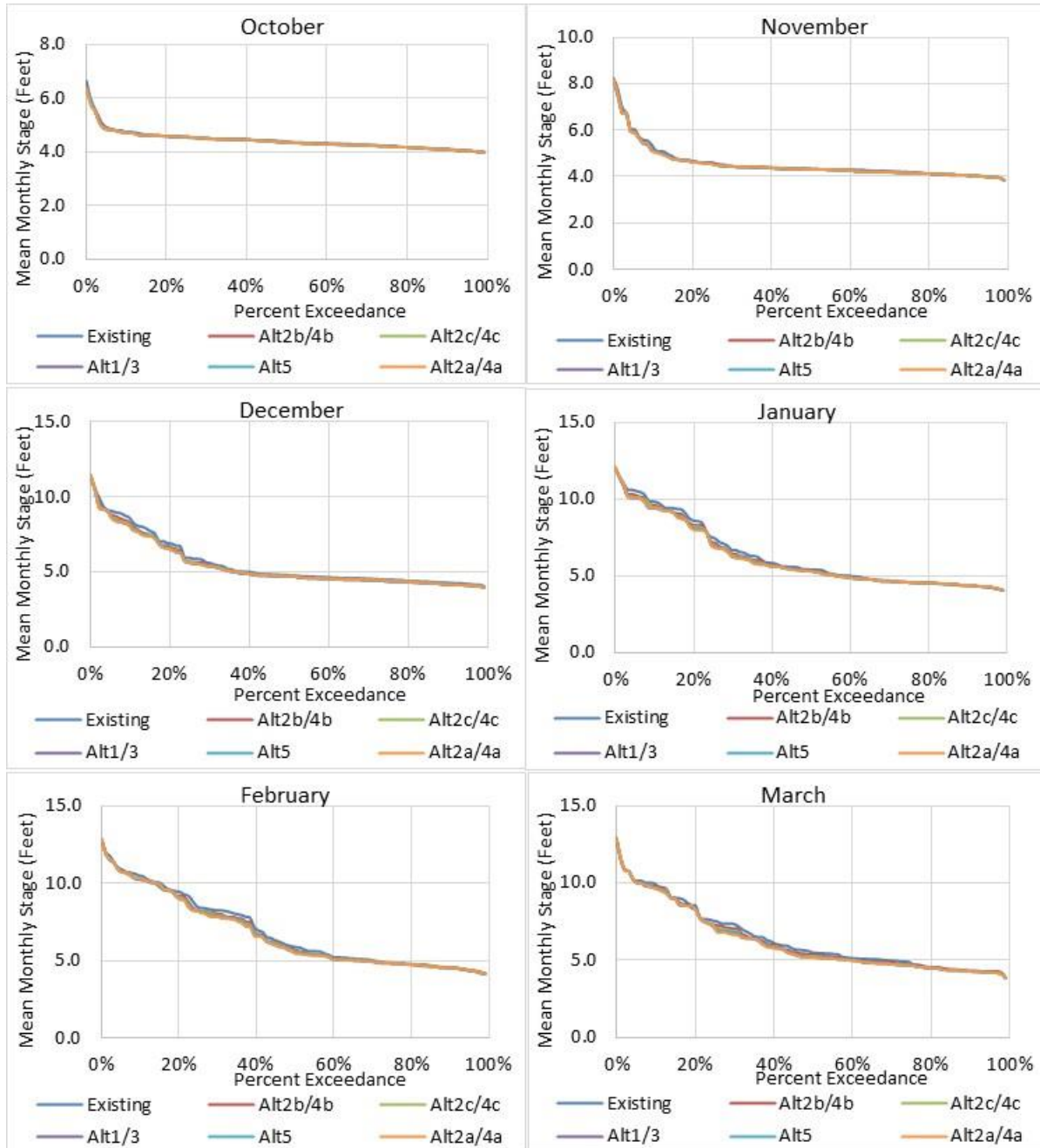


Figure 5A-C1.1.1-B. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Probability of Exceedance for Existing Condition

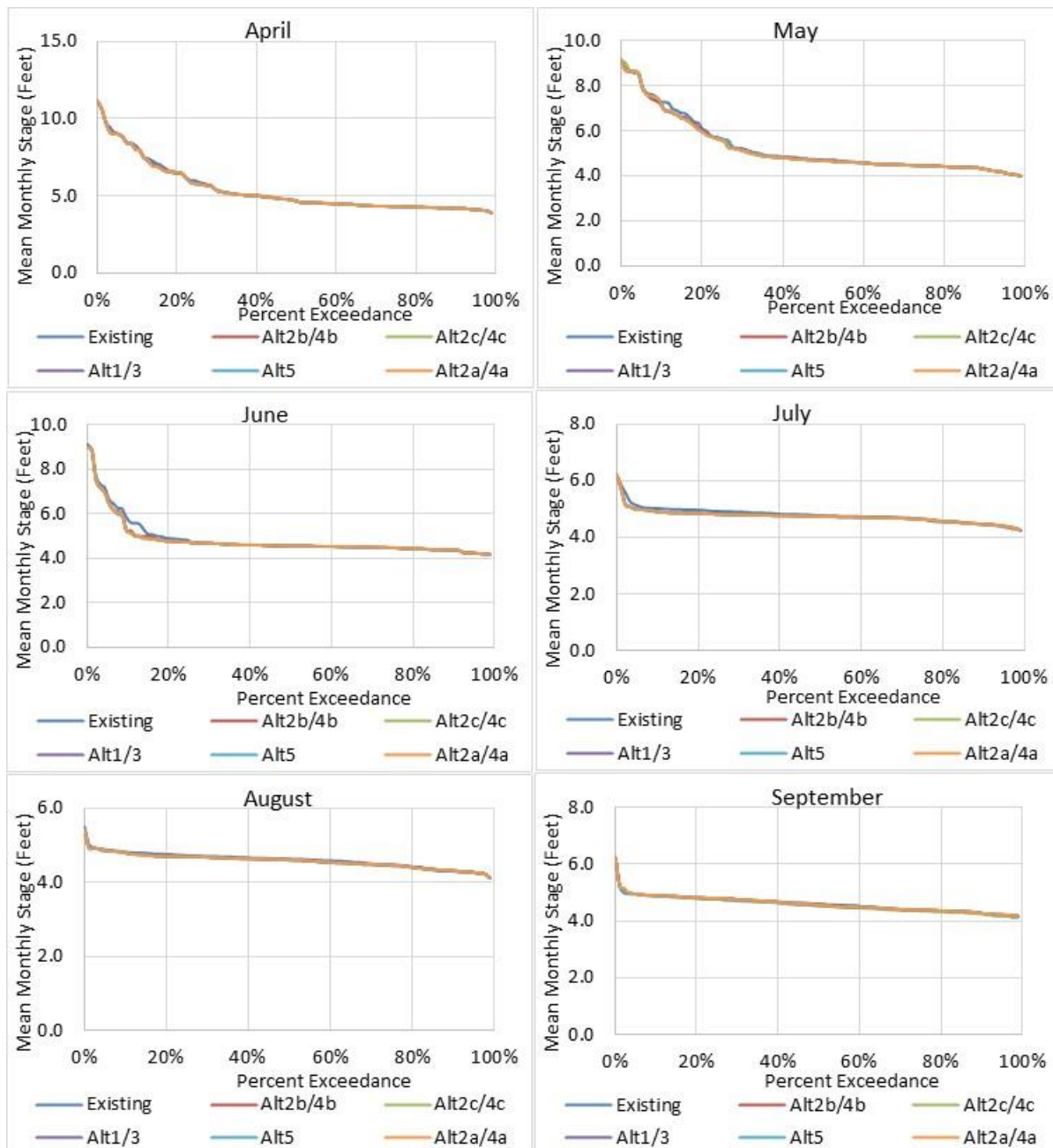


Table 5A-C1.1.1-A. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Exceedance Probabilities for Monthly Average Stage (Feet), Existing Condition

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.2	4.4	4.6	4.8	4.6	4.3	4.4	4.4	4.6	4.4	4.4
30%	4.3	4.3	4.5	4.7	5.1	5.0	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	5.0	5.4	5.2	4.5	4.6	4.5	4.7	4.6	4.6
50%	4.4	4.3	4.7	5.4	6.0	5.6	4.7	4.7	4.6	4.8	4.6	4.6
60%	4.4	4.4	5.0	5.9	7.3	6.2	5.0	4.9	4.6	4.8	4.7	4.7
70%	4.5	4.5	5.6	6.8	8.3	7.4	5.5	5.2	4.7	4.9	4.7	4.7
80%	4.6	4.7	6.9	8.7	9.5	8.5	6.5	6.2	4.9	5.0	4.8	4.8
90%	4.7	5.3	8.5	9.8	10.5	9.9	8.2	7.3	5.8	5.0	4.8	4.9

Table 5A-C1.1.1-B. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Monthly Average Stage (Feet), Existing Condition

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.6	5.5	6.3	7.0	6.4	5.4	5.3	4.9	4.8	4.6	4.6
Wet Water Years	4.7	4.9	5.8	8.4	9.3	8.5	7.1	6.4	5.5	5.0	4.8	4.9
Above Normal Water Years	4.5	4.7	5.5	7.1	7.6	7.0	5.2	5.6	5.0	4.9	4.7	4.7
Below Normal Water Years	4.5	4.6	6.1	5.3	5.8	5.4	4.7	4.7	4.5	4.9	4.7	4.5
Dry Water Years	4.2	4.3	5.0	4.7	5.5	5.1	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.7	4.8	4.6	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.1.1-C. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.9	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.3	5.0	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.8	5.3	4.7	4.7	4.5	4.7	4.6	4.6
60%	4.4	4.4	4.9	5.7	7.0	6.0	5.0	4.8	4.6	4.8	4.7	4.7
70%	4.5	4.4	5.4	6.6	8.1	7.0	5.5	5.2	4.7	4.8	4.7	4.8
80%	4.6	4.7	6.7	8.4	9.2	8.3	6.4	6.1	4.8	4.9	4.7	4.8
90%	4.7	5.1	8.2	9.6	10.3	9.8	8.0	7.2	5.3	4.9	4.8	4.9

Table 5A-C1.1.1-D. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.5	6.2	6.8	6.3	5.4	5.2	4.8	4.7	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.2	9.2	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.4	6.9	7.4	6.8	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.6	6.0	5.1	5.6	5.2	4.7	4.7	4.5	4.8	4.6	4.5
Dry Water Years	4.2	4.2	5.0	4.6	5.4	5.0	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.1.1-E. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1
50%	0.0	0.0	0.0	-0.1	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	-0.1	-0.2	-0.3	-0.2	0.0	0.0	0.0	-0.1	0.0	0.0
70%	0.0	0.0	-0.1	-0.2	-0.2	-0.3	0.0	0.0	0.0	-0.1	0.0	0.0
80%	0.0	0.0	-0.2	-0.3	-0.3	-0.2	-0.1	-0.2	-0.1	-0.1	0.0	0.0
90%	0.0	-0.2	-0.3	-0.2	-0.3	-0.2	-0.3	-0.2	-0.5	-0.1	0.0	0.0

Table 5A-C1.1.1-F. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	-0.1	-0.1	0.0	0.0
Wet Water Years	0.0	0.0	-0.1	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	-0.1	-0.2	-0.2	-0.2	0.0	-0.1	-0.2	-0.1	0.0	0.0
Below Normal Water Years	-0.1	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0	0.0	-0.1	0.0	-0.1
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.1	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.1.2-A. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.8	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.3	5.1	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.7	5.3	4.7	4.7	4.5	4.8	4.6	4.5
60%	4.5	4.4	4.9	5.7	7.0	5.9	5.0	4.8	4.6	4.8	4.7	4.7
70%	4.5	4.4	5.4	6.5	8.0	6.9	5.5	5.2	4.7	4.8	4.7	4.8
80%	4.6	4.7	6.6	8.2	9.1	8.4	6.5	6.0	4.8	4.8	4.7	4.8
90%	4.7	5.1	8.1	9.5	10.3	9.7	8.0	7.3	5.2	4.9	4.8	4.9

Table 5A-C1.1.2-B. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.2	6.8	6.2	5.4	5.2	4.8	4.8	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.2	9.1	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.4	6.8	7.3	6.7	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.5	5.9	5.1	5.6	5.2	4.7	4.7	4.5	4.8	4.6	4.4
Dry Water Years	4.2	4.2	5.0	4.6	5.3	4.9	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.1.2-C. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	-0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1
50%	0.0	0.0	0.0	-0.1	-0.3	-0.3	0.0	0.0	0.0	0.0	0.0	-0.1
60%	0.0	0.0	-0.1	-0.2	-0.4	-0.3	0.0	-0.1	0.0	-0.1	0.0	0.0
70%	0.0	0.0	-0.1	-0.3	-0.3	-0.5	0.0	0.0	0.0	-0.1	0.0	0.0
80%	0.0	0.0	-0.3	-0.4	-0.4	-0.1	0.0	-0.2	-0.1	-0.1	-0.1	0.0
90%	0.0	-0.2	-0.4	-0.4	-0.2	-0.3	-0.2	-0.1	-0.6	-0.1	0.0	0.0

Table 5A-C1.1.2-D. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	-0.1	-0.2	-0.2	-0.2	0.0	0.0	-0.1	-0.1	0.0	0.0
Wet Water Years	0.0	0.0	-0.1	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	-0.1	-0.3	-0.3	-0.3	0.0	-0.1	-0.2	-0.1	0.0	0.0
Below Normal Water Years	-0.1	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.0	0.0	-0.1	0.0	-0.1
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.1.3-A. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.8	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.3	5.0	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.7	5.2	4.7	4.7	4.5	4.8	4.6	4.5
60%	4.5	4.4	4.9	5.7	6.9	5.9	5.0	4.8	4.6	4.8	4.6	4.6
70%	4.5	4.4	5.4	6.4	7.9	6.8	5.5	5.2	4.7	4.8	4.7	4.8
80%	4.6	4.6	6.6	8.2	9.1	8.4	6.5	6.1	4.8	4.8	4.7	4.8
90%	4.7	5.1	8.1	9.4	10.3	9.7	8.0	7.3	5.2	4.9	4.8	4.9

Table 5A-C1.1.3-B. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Monthly Average Stage (Feet), Alternative 1/3 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.1	6.8	6.2	5.4	5.2	4.8	4.7	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.2	9.1	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.3	6.7	7.3	6.6	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.5	5.9	5.1	5.6	5.1	4.7	4.7	4.5	4.8	4.6	4.4
Dry Water Years	4.2	4.2	5.0	4.6	5.3	4.9	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.1.3-C. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	-0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1
50%	0.0	0.0	0.0	-0.1	-0.3	-0.4	0.0	-0.1	0.0	0.0	0.0	-0.1
60%	0.0	0.0	-0.1	-0.2	-0.5	-0.3	0.0	-0.1	0.0	-0.1	0.0	-0.1
70%	0.0	0.0	-0.2	-0.4	-0.4	-0.5	0.0	0.0	0.0	-0.1	0.0	0.0
80%	0.0	0.0	-0.3	-0.5	-0.4	-0.1	0.0	-0.1	-0.1	-0.1	-0.1	0.0
90%	0.0	-0.2	-0.4	-0.4	-0.2	-0.3	-0.2	-0.1	-0.6	-0.1	0.0	0.0

Table 5A-C1.1.3-D. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	0.0	0.0	-0.1	-0.1	0.0	0.0
Wet Water Years	0.0	0.0	-0.1	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	-0.1	-0.3	-0.4	-0.3	0.0	-0.1	-0.2	-0.1	0.0	0.0
Below Normal Water Years	-0.1	-0.1	-0.2	-0.1	-0.2	-0.3	0.0	0.0	0.0	-0.1	0.0	-0.1
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.1	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.1.4-A. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.8	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.2	5.0	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.7	5.2	4.7	4.7	4.5	4.8	4.6	4.5
60%	4.5	4.4	4.9	5.7	6.9	5.9	5.0	4.8	4.6	4.8	4.6	4.6
70%	4.5	4.4	5.4	6.4	7.9	6.8	5.5	5.2	4.7	4.8	4.7	4.8
80%	4.6	4.6	6.6	8.2	9.1	8.4	6.5	6.0	4.8	4.8	4.7	4.8
90%	4.7	5.1	8.1	9.4	10.3	9.7	8.0	7.3	5.2	4.9	4.8	4.9

Table 5A-C1.1.4-B. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Monthly Average Stage (Feet), Alternative 5 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.1	6.8	6.2	5.4	5.2	4.8	4.7	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.1	9.1	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.3	6.7	7.3	6.6	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.5	5.9	5.1	5.6	5.1	4.7	4.7	4.5	4.8	4.6	4.4
Dry Water Years	4.2	4.2	5.0	4.6	5.3	4.9	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.1.4-C. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	-0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	-0.1	-0.2	-0.1	0.0	0.0	0.0	0.0	0.0	-0.1
50%	0.0	0.0	0.0	-0.1	-0.3	-0.4	0.0	-0.1	0.0	0.0	0.0	-0.1
60%	0.0	-0.1	-0.1	-0.2	-0.5	-0.3	0.0	-0.1	0.0	-0.1	0.0	-0.1
70%	0.0	0.0	-0.2	-0.4	-0.4	-0.5	0.0	0.0	0.0	-0.1	0.0	0.0
80%	0.0	-0.1	-0.3	-0.5	-0.4	-0.1	0.0	-0.2	-0.1	-0.1	-0.1	0.0
90%	0.0	-0.2	-0.4	-0.4	-0.2	-0.3	-0.2	-0.1	-0.6	-0.1	0.0	0.0

Table 5A-C1.1.4-D. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	0.0	0.0	-0.1	-0.1	0.0	0.0
Wet Water Years	0.0	0.0	-0.1	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	-0.1	-0.3	-0.4	-0.3	0.0	-0.1	-0.2	-0.1	0.0	0.0
Below Normal Water Years	-0.1	-0.1	-0.1	-0.1	-0.2	-0.3	0.0	0.0	0.0	-0.1	0.0	-0.1
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.1	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.1.5-A. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.2
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.8	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.3	5.0	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.7	5.2	4.7	4.7	4.5	4.7	4.6	4.6
60%	4.5	4.4	4.9	5.6	6.7	5.8	5.0	4.8	4.6	4.8	4.6	4.6
70%	4.5	4.4	5.4	6.4	7.9	6.7	5.5	5.1	4.7	4.8	4.7	4.7
80%	4.6	4.6	6.5	8.1	9.2	8.4	6.5	6.0	4.8	4.8	4.7	4.8
90%	4.7	5.1	8.0	9.4	10.4	9.7	8.0	7.3	5.2	4.9	4.8	4.9

Table 5A-C1.1.5-B. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.1	6.8	6.2	5.4	5.2	4.8	4.7	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.1	9.1	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.3	6.7	7.3	6.6	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.5	5.9	5.1	5.5	5.1	4.7	4.7	4.5	4.8	4.6	4.4
Dry Water Years	4.2	4.2	4.9	4.6	5.3	4.9	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.1.5-C. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	-0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	-0.1
50%	0.0	0.0	0.0	-0.1	-0.3	-0.4	0.0	0.0	0.0	0.0	0.0	-0.1
60%	0.0	0.0	-0.1	-0.2	-0.6	-0.4	0.0	-0.1	0.0	-0.1	0.0	0.0
70%	0.0	0.0	-0.2	-0.4	-0.5	-0.7	0.0	-0.1	0.0	-0.1	0.0	0.0
80%	0.0	-0.1	-0.4	-0.6	-0.3	-0.1	0.0	-0.2	-0.1	-0.1	-0.1	0.0
90%	0.0	-0.2	-0.5	-0.4	-0.2	-0.3	-0.2	-0.1	-0.6	-0.1	0.0	0.0

Table 5A-C1.1.5-D. Sacramento River Upstream of Delta Cross Channel Mean Monthly Stage Location (RSAC128), Difference in Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	0.0	0.0	-0.1	-0.1	0.0	0.0
Wet Water Years	0.0	0.0	-0.1	-0.3	-0.2	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	-0.1	-0.4	-0.4	-0.4	0.0	-0.1	-0.2	-0.1	0.0	0.0
Below Normal Water Years	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	0.0	0.0	0.0	-0.1	0.0	-0.1
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0

C.1.2 Sacramento River Downstream of Georgiana

Figure 5A-C1.2.1-A. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Probability of Exceedance for Existing Conditions

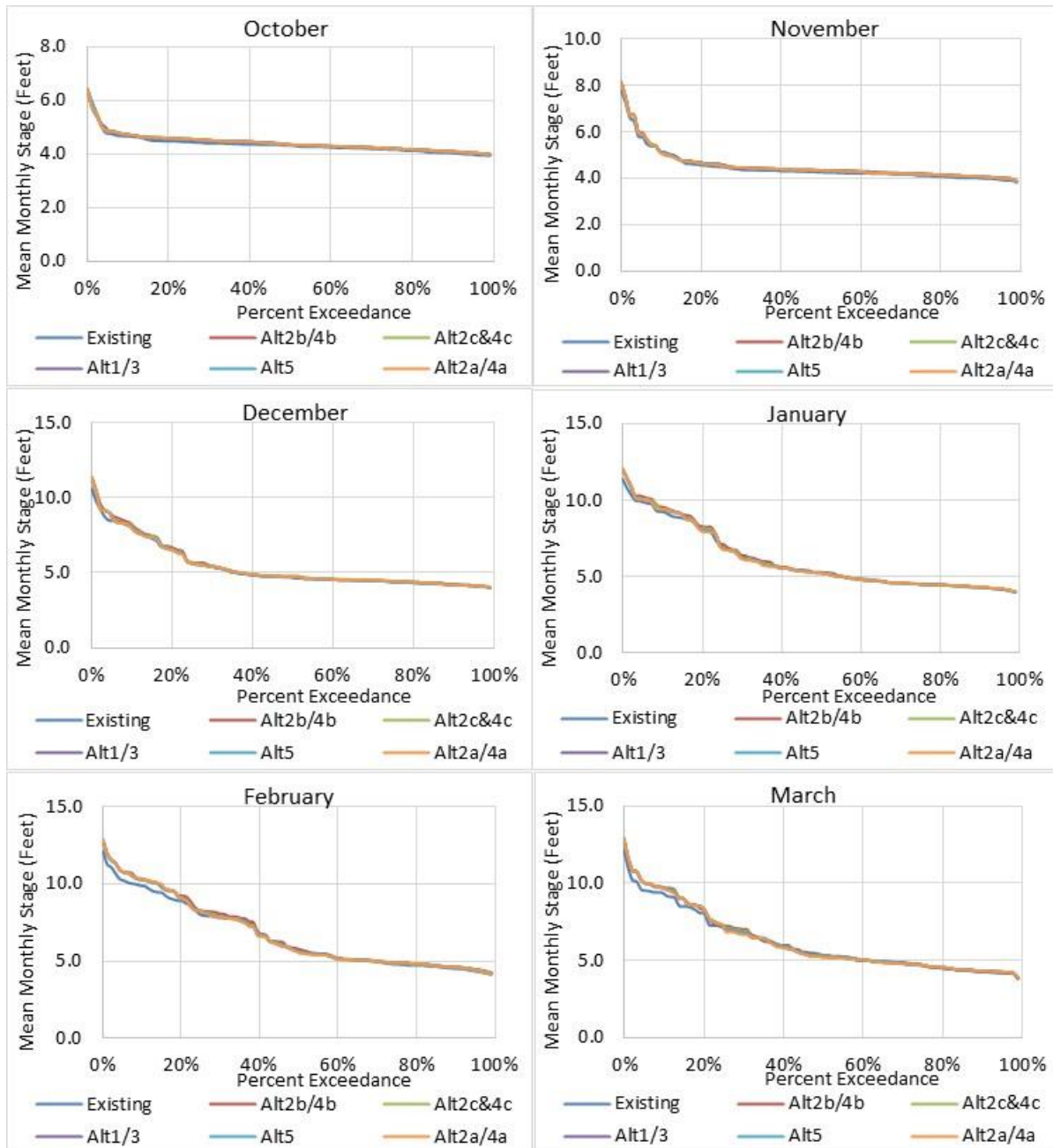


Figure 5A-C1.2.1-B. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Probability of Exceedance for Existing Conditions

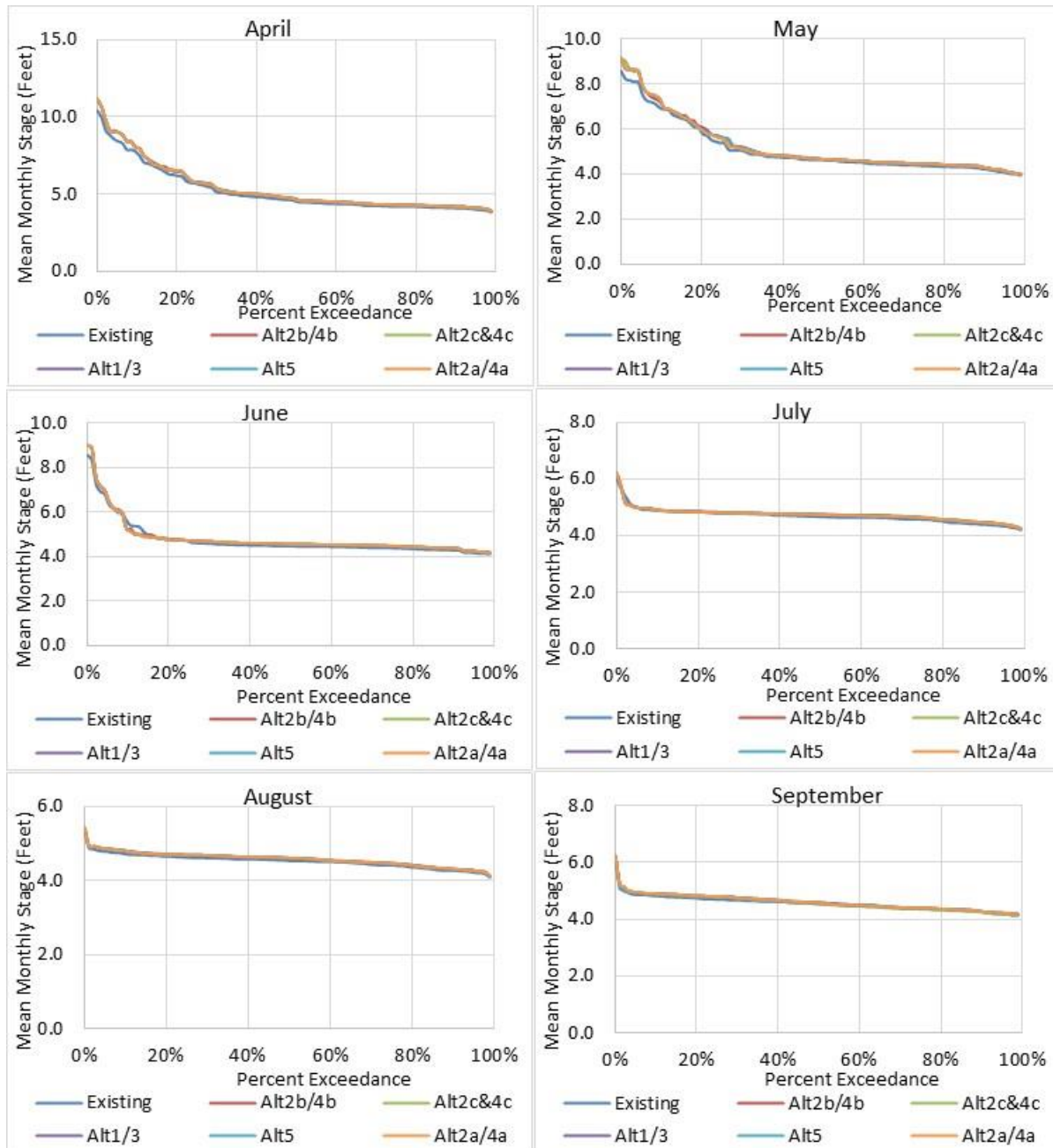


Table 5A-C1.2.1-A. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Exceedance Probabilities for Monthly Average Stage (Feet), Existing Condition

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.0	4.0	4.2	4.3	4.5	4.2	4.1	4.3	4.3	4.4	4.3	4.2
20%	4.1	4.1	4.3	4.5	4.7	4.5	4.2	4.4	4.4	4.5	4.4	4.3
30%	4.2	4.2	4.4	4.6	5.0	4.9	4.3	4.4	4.4	4.6	4.5	4.4
40%	4.3	4.2	4.5	4.9	5.2	5.0	4.4	4.5	4.5	4.6	4.5	4.5
50%	4.3	4.3	4.7	5.3	5.8	5.4	4.6	4.6	4.5	4.7	4.6	4.5
60%	4.4	4.3	4.8	5.7	7.0	6.0	4.8	4.8	4.5	4.7	4.6	4.6
70%	4.4	4.4	5.4	6.5	7.8	7.0	5.3	5.1	4.6	4.8	4.6	4.6
80%	4.5	4.6	6.6	8.2	8.9	8.0	6.2	6.0	4.8	4.8	4.7	4.7
90%	4.7	5.2	8.0	9.2	9.9	9.3	7.7	6.9	5.6	4.9	4.7	4.8

Table 5A-C1.2.1-B. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Monthly Average Stage (Feet), Existing Condition

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.1	6.7	6.1	5.2	5.1	4.8	4.7	4.5	4.5
Wet Water Years	4.6	4.7	5.6	8.0	8.8	8.0	6.7	6.1	5.3	4.8	4.7	4.8
Above Normal Water Years	4.4	4.6	5.3	6.7	7.2	6.6	5.1	5.4	4.9	4.8	4.6	4.6
Below Normal Water Years	4.4	4.5	5.8	5.1	5.6	5.2	4.6	4.6	4.5	4.7	4.6	4.5
Dry Water Years	4.1	4.2	4.9	4.6	5.3	4.9	4.3	4.4	4.4	4.5	4.4	4.3
Critical Water Years	4.1	4.1	4.5	4.6	4.7	4.5	4.2	4.3	4.3	4.4	4.3	4.3

Table 5A-C1.2.1-C. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.9	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.3	5.0	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.8	5.3	4.7	4.7	4.5	4.7	4.6	4.6
60%	4.4	4.4	4.9	5.7	7.0	6.0	5.0	4.8	4.6	4.8	4.7	4.7
70%	4.5	4.4	5.4	6.6	8.1	7.0	5.5	5.2	4.7	4.8	4.7	4.8
80%	4.6	4.7	6.7	8.4	9.2	8.3	6.4	6.1	4.8	4.9	4.7	4.8
90%	4.7	5.1	8.2	9.6	10.3	9.8	8.0	7.2	5.3	4.9	4.8	4.9

Table 5A-C1.2.1-D. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.5	6.2	6.8	6.3	5.4	5.2	4.8	4.7	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.2	9.2	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.4	6.9	7.4	6.8	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.6	6.0	5.1	5.6	5.2	4.7	4.7	4.5	4.8	4.6	4.5
Dry Water Years	4.2	4.2	5.0	4.6	5.4	5.0	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.2.1-E. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0
20%	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
50%	0.0	0.0	0.0	0.1	0.0	-0.1	0.1	0.0	0.1	0.1	0.1	0.0
60%	0.1	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
70%	0.1	0.0	0.1	0.1	0.3	0.1	0.2	0.2	0.1	0.0	0.1	0.1
80%	0.1	0.1	0.1	0.2	0.4	0.3	0.2	0.1	0.0	0.0	0.1	0.1
90%	0.1	-0.1	0.2	0.4	0.4	0.5	0.2	0.2	-0.3	0.0	0.1	0.1

Table 5A-C1.2.1-F. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.1	0.0	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.0	0.1	0.1
Wet Water Years	0.1	0.1	0.1	0.3	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1
Above Normal Water Years	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	-0.1	0.0	0.1	0.1
Below Normal Water Years	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0
Dry Water Years	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0

Table 5A-C1.2.2-A. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.8	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.3	5.1	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.7	5.3	4.7	4.7	4.5	4.8	4.6	4.5
60%	4.5	4.4	4.9	5.7	7.0	5.9	5.0	4.8	4.6	4.8	4.7	4.7
70%	4.5	4.4	5.4	6.5	8.0	6.9	5.5	5.2	4.7	4.8	4.7	4.8
80%	4.6	4.7	6.6	8.2	9.1	8.4	6.5	6.0	4.8	4.8	4.7	4.8
90%	4.7	5.1	8.1	9.5	10.3	9.7	8.0	7.3	5.2	4.9	4.8	4.9

Table 5A-C1.2.2-B. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.2	6.8	6.2	5.4	5.2	4.8	4.8	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.2	9.1	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.4	6.8	7.3	6.7	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.5	5.9	5.1	5.6	5.2	4.7	4.7	4.5	4.8	4.6	4.4
Dry Water Years	4.2	4.2	5.0	4.6	5.3	4.9	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.2.2-C. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0
20%	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0
30%	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
50%	0.0	0.0	0.0	0.1	-0.1	-0.1	0.1	0.0	0.1	0.1	0.1	0.0
60%	0.1	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1
70%	0.1	0.0	0.0	0.0	0.2	-0.1	0.2	0.1	0.1	0.0	0.1	0.1
80%	0.1	0.1	0.0	0.1	0.3	0.4	0.3	0.1	0.0	0.0	0.0	0.1
90%	0.1	-0.1	0.1	0.2	0.4	0.4	0.3	0.3	-0.4	0.0	0.1	0.1

Table 5A-C1.2.2-D. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.1	0.0	0.1	0.1	0.2	0.1	0.2	0.1	0.0	0.0	0.1	0.1
Wet Water Years	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1
Above Normal Water Years	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	-0.1	0.0	0.1	0.1
Below Normal Water Years	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.1	0.0	0.0

Table 5A-C1.2.3-A. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.8	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.3	5.0	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.7	5.2	4.7	4.7	4.5	4.8	4.6	4.5
60%	4.5	4.4	4.9	5.7	6.9	5.9	5.0	4.8	4.6	4.8	4.6	4.6
70%	4.5	4.4	5.4	6.4	7.9	6.8	5.5	5.2	4.7	4.8	4.7	4.8
80%	4.6	4.6	6.6	8.2	9.1	8.4	6.5	6.1	4.8	4.8	4.7	4.8
90%	4.7	5.1	8.1	9.4	10.3	9.7	8.0	7.3	5.2	4.9	4.8	4.9

Table 5A-C1.2.3-B. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Monthly Average Stage (Feet), Alternative 1/3 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.1	6.8	6.2	5.4	5.2	4.8	4.7	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.2	9.1	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.3	6.7	7.3	6.6	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.5	5.9	5.1	5.6	5.1	4.7	4.7	4.5	4.8	4.6	4.4
Dry Water Years	4.2	4.2	5.0	4.6	5.3	4.9	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.2.3-C. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0
30%	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.1	0.1	0.1	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
50%	0.0	0.0	0.1	0.0	-0.1	-0.2	0.1	0.0	0.1	0.1	0.1	0.0
60%	0.1	0.0	0.1	0.0	-0.1	-0.1	0.1	0.1	0.1	0.0	0.1	0.0
70%	0.1	0.0	0.0	-0.1	0.1	-0.1	0.2	0.1	0.1	0.0	0.1	0.1
80%	0.1	0.1	0.0	0.0	0.2	0.4	0.3	0.1	0.0	0.0	0.0	0.1
90%	0.1	0.0	0.1	0.2	0.4	0.4	0.3	0.3	-0.4	0.0	0.1	0.1

Table 5A-C1.2.3-D. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.1	0.0
Wet Water Years	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1
Above Normal Water Years	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	-0.1	0.0	0.1	0.1
Below Normal Water Years	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.1	0.1	0.0	0.1	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.2.4-A. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.3
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.8	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.2	5.0	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.7	5.2	4.7	4.7	4.5	4.8	4.6	4.5
60%	4.5	4.4	4.9	5.7	6.9	5.9	5.0	4.8	4.6	4.8	4.6	4.6
70%	4.5	4.4	5.4	6.4	7.9	6.8	5.5	5.2	4.7	4.8	4.7	4.8
80%	4.6	4.6	6.6	8.2	9.1	8.4	6.5	6.0	4.8	4.8	4.7	4.8
90%	4.7	5.1	8.1	9.4	10.3	9.7	8.0	7.3	5.2	4.9	4.8	4.9

Table 5A-C1.2.4-B. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Monthly Average Stage (Feet), Alternative 5 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.1	6.8	6.2	5.4	5.2	4.8	4.7	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.1	9.1	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.3	6.7	7.3	6.6	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.5	5.9	5.1	5.6	5.1	4.7	4.7	4.5	4.8	4.6	4.4
Dry Water Years	4.2	4.2	5.0	4.6	5.3	4.9	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.2.4-C. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0
30%	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.1	0.1	0.1	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
50%	0.0	0.0	0.1	0.0	-0.1	-0.2	0.1	0.0	0.1	0.1	0.1	0.0
60%	0.1	0.0	0.1	0.0	-0.1	-0.1	0.1	0.1	0.1	0.0	0.1	0.0
70%	0.1	0.0	0.0	-0.1	0.1	-0.1	0.2	0.1	0.1	0.0	0.1	0.1
80%	0.1	0.0	0.0	0.0	0.2	0.4	0.3	0.1	0.0	0.0	0.0	0.1
90%	0.1	-0.1	0.1	0.2	0.4	0.4	0.3	0.3	-0.4	0.0	0.1	0.1

Table 5A-C1.2.4-D. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.1	0.0	0.1	0.1	0.1	0.1	0.2	0.1	0.0	0.0	0.1	0.0
Wet Water Years	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1
Above Normal Water Years	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	-0.1	0.0	0.1	0.1
Below Normal Water Years	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.1	0.1	0.0	0.1	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.2.5-A. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.1	4.1	4.2	4.4	4.6	4.3	4.2	4.3	4.4	4.5	4.3	4.2
20%	4.2	4.1	4.4	4.5	4.8	4.5	4.3	4.4	4.4	4.6	4.4	4.3
30%	4.2	4.2	4.5	4.6	5.0	4.8	4.3	4.5	4.5	4.7	4.5	4.4
40%	4.3	4.3	4.6	4.9	5.3	5.0	4.5	4.6	4.5	4.7	4.6	4.5
50%	4.3	4.3	4.7	5.3	5.7	5.2	4.7	4.7	4.5	4.7	4.6	4.6
60%	4.5	4.4	4.9	5.6	6.7	5.8	5.0	4.8	4.6	4.8	4.6	4.6
70%	4.5	4.4	5.4	6.4	7.9	6.7	5.5	5.1	4.7	4.8	4.7	4.7
80%	4.6	4.6	6.5	8.1	9.2	8.4	6.5	6.0	4.8	4.8	4.7	4.8
90%	4.7	5.1	8.0	9.4	10.4	9.7	8.0	7.3	5.2	4.9	4.8	4.9

Table 5A-C1.2.5-B. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.4	4.5	5.4	6.1	6.8	6.2	5.4	5.2	4.8	4.7	4.6	4.6
Wet Water Years	4.7	4.8	5.7	8.1	9.1	8.3	7.0	6.3	5.4	4.9	4.7	4.9
Above Normal Water Years	4.4	4.6	5.3	6.7	7.3	6.6	5.2	5.5	4.8	4.8	4.7	4.7
Below Normal Water Years	4.4	4.5	5.9	5.1	5.5	5.1	4.7	4.7	4.5	4.8	4.6	4.4
Dry Water Years	4.2	4.2	4.9	4.6	5.3	4.9	4.4	4.5	4.5	4.6	4.4	4.3
Critical Water Years	4.2	4.1	4.6	4.6	4.8	4.5	4.3	4.3	4.4	4.5	4.4	4.4

Table 5A-C1.2.5-C. Sacramento River Downstream of Georgiana Mean Monthly Stage Location (RSAC123), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.0
20%	0.0	0.0	0.1	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.1	0.0
30%	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.1	0.1	0.1	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.0	0.0
50%	0.0	0.0	0.1	0.0	-0.1	-0.2	0.1	0.0	0.1	0.1	0.1	0.0
60%	0.1	0.0	0.1	0.0	-0.2	-0.1	0.1	0.1	0.1	0.0	0.1	0.1
70%	0.1	0.0	0.0	-0.1	0.0	-0.3	0.2	0.1	0.1	0.0	0.1	0.1
80%	0.1	0.0	0.0	-0.1	0.3	0.4	0.3	0.1	0.0	0.0	0.1	0.1
90%	0.1	-0.1	0.0	0.2	0.5	0.4	0.3	0.3	-0.4	0.0	0.1	0.1

1 **Table 5A-C1.2.5-D. Sacramento River Downstream of Georgiana Mean Monthly Stage Location**
2 **(RSAC123), Difference in Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing**
3 **Conditions**

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.1	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.0	0.0	0.1	0.1
Wet Water Years	0.1	0.1	0.1	0.2	0.4	0.3	0.3	0.2	0.1	0.1	0.1	0.1
Above Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1	-0.1	0.0	0.1	0.1
Below Normal Water Years	0.0	0.0	0.1	0.0	0.0	-0.1	0.1	0.1	0.1	0.0	0.1	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	-0.1	0.1	0.1	0.1	0.1	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0

4

C.1.3 Sacramento River at Rio Vista

Figure 5A-C1.3.1-A. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Probability of Exceedance for Existing Conditions

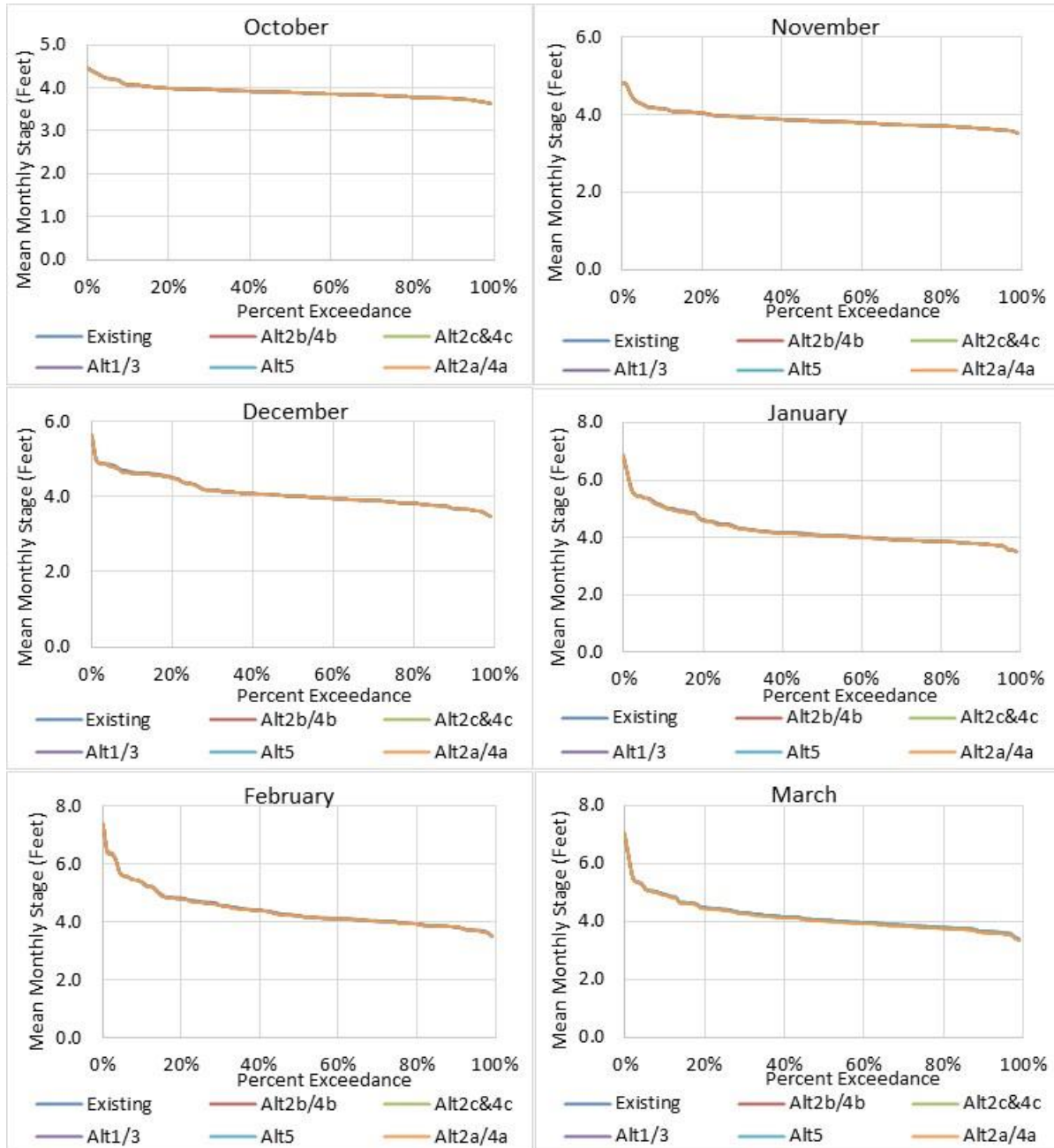


Figure 5A-C1.3.1-B. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Probability of Exceedance for Existing Conditions

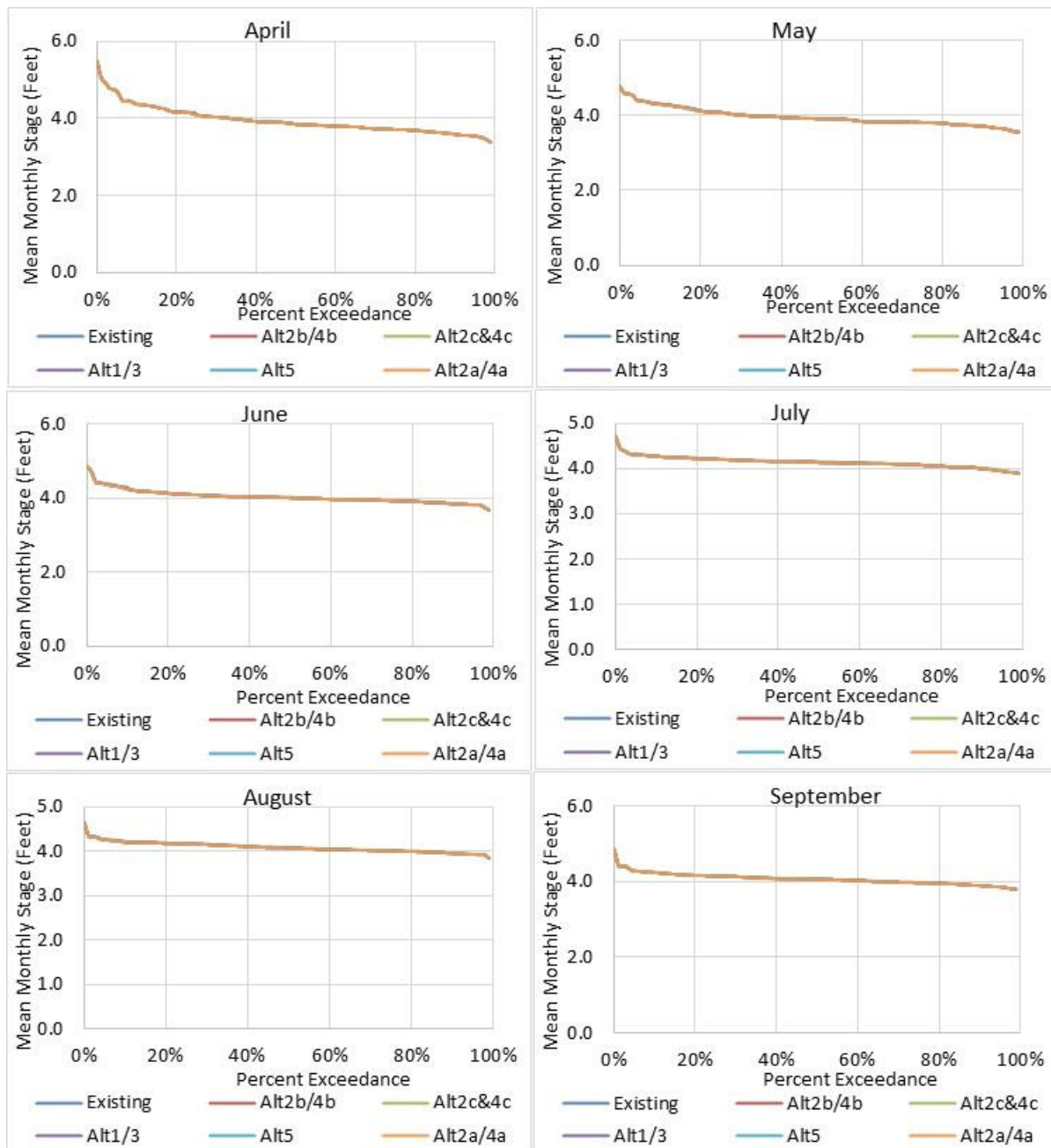


Table 5A-C1.3.1-A. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Exceedance Probabilities for Monthly Average Stage (Feet), Existing Condition

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.8	3.7	3.7	3.8	3.8	3.7	3.6	3.7	3.9	4.0	4.0	3.9
20%	3.8	3.7	3.8	3.9	3.9	3.8	3.7	3.8	3.9	4.1	4.0	4.0
30%	3.8	3.7	3.9	3.9	4.0	3.9	3.7	3.8	4.0	4.1	4.0	4.0
40%	3.9	3.8	3.9	4.0	4.1	4.0	3.8	3.9	4.0	4.1	4.0	4.0
50%	3.9	3.9	4.0	4.1	4.2	4.1	3.9	3.9	4.0	4.1	4.1	4.1
60%	3.9	3.9	4.1	4.2	4.4	4.2	3.9	4.0	4.1	4.2	4.1	4.1
70%	4.0	3.9	4.2	4.3	4.6	4.3	4.0	4.0	4.1	4.2	4.2	4.1
80%	4.0	4.1	4.5	4.7	4.8	4.5	4.2	4.1	4.1	4.2	4.2	4.2
90%	4.1	4.2	4.7	5.1	5.4	5.0	4.4	4.3	4.3	4.3	4.2	4.2

Table 5A-C1.3.1-B. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Monthly Average Stage (Feet), Existing Condition

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.9	3.9	4.1	4.3	4.4	4.2	4.0	4.0	4.1	4.1	4.1	4.1
Wet Water Years	4.0	4.0	4.2	4.8	5.0	4.7	4.3	4.2	4.2	4.2	4.1	4.2
Above Normal Water Years	3.9	3.8	4.0	4.4	4.6	4.3	3.9	4.0	4.1	4.1	4.1	4.0
Below Normal Water Years	3.9	3.9	4.2	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.1	4.0
Dry Water Years	3.8	3.8	4.0	3.9	4.1	3.9	3.7	3.9	4.0	4.1	4.0	4.0
Critical Water Years	3.9	3.7	3.9	3.9	4.0	3.8	3.8	3.8	4.0	4.1	4.1	4.1

Table 5A-C1.3.1-C. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.8	3.7	3.7	3.8	3.8	3.7	3.6	3.7	3.9	4.0	4.0	3.9
20%	3.8	3.7	3.8	3.9	3.9	3.8	3.7	3.8	3.9	4.0	4.0	4.0
30%	3.8	3.7	3.9	3.9	4.0	3.9	3.7	3.8	4.0	4.1	4.0	4.0
40%	3.9	3.8	3.9	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.0	4.0
50%	3.9	3.8	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.1	4.1	4.1
60%	3.9	3.9	4.1	4.2	4.4	4.2	3.9	4.0	4.0	4.2	4.1	4.1
70%	4.0	3.9	4.2	4.3	4.6	4.3	4.0	4.0	4.1	4.2	4.2	4.1
80%	4.0	4.0	4.5	4.6	4.8	4.5	4.2	4.1	4.1	4.2	4.2	4.2
90%	4.1	4.2	4.6	5.1	5.4	4.9	4.4	4.3	4.3	4.3	4.2	4.2

Table 5A-C1.3.1-D. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.9	3.9	4.1	4.3	4.4	4.2	4.0	4.0	4.0	4.1	4.1	4.1
Wet Water Years	4.0	4.0	4.2	4.8	5.0	4.7	4.3	4.1	4.2	4.2	4.1	4.2
Above Normal Water Years	3.9	3.8	4.0	4.4	4.6	4.2	3.9	4.0	4.0	4.1	4.1	4.0
Below Normal Water Years	3.9	3.9	4.2	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.1	4.0
Dry Water Years	3.8	3.8	4.0	3.9	4.1	3.9	3.7	3.9	4.0	4.1	4.0	4.0
Critical Water Years	3.9	3.7	3.9	3.9	4.0	3.8	3.8	3.8	4.0	4.1	4.1	4.1

Table 5A-C1.3.1-E. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.3.1-F. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.3.2-A. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.8	3.7	3.7	3.8	3.8	3.6	3.6	3.7	3.9	4.0	4.0	3.9
20%	3.8	3.7	3.8	3.9	3.9	3.8	3.7	3.8	3.9	4.0	4.0	4.0
30%	3.8	3.7	3.9	3.9	4.0	3.9	3.7	3.8	4.0	4.1	4.0	4.0
40%	3.9	3.8	3.9	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.0	4.0
50%	3.9	3.8	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.1	4.1	4.1
60%	3.9	3.9	4.1	4.2	4.4	4.2	3.9	4.0	4.0	4.2	4.1	4.1
70%	4.0	3.9	4.2	4.3	4.6	4.3	4.0	4.0	4.1	4.2	4.2	4.1
80%	4.0	4.0	4.5	4.6	4.8	4.5	4.2	4.1	4.1	4.2	4.2	4.2
90%	4.1	4.2	4.6	5.1	5.4	4.9	4.4	4.3	4.3	4.3	4.2	4.2

Table 5A-C1.3.2-B. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.9	3.9	4.1	4.3	4.4	4.2	4.0	4.0	4.0	4.1	4.1	4.1
Wet Water Years	4.0	4.0	4.2	4.8	5.0	4.7	4.3	4.2	4.2	4.2	4.1	4.2
Above Normal Water Years	3.9	3.8	4.0	4.4	4.6	4.2	3.9	4.0	4.0	4.1	4.1	4.0
Below Normal Water Years	3.9	3.9	4.2	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.1	4.0
Dry Water Years	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.9	4.0	4.1	4.0	4.0
Critical Water Years	3.9	3.7	3.9	3.9	4.0	3.8	3.8	3.8	4.0	4.1	4.1	4.1

Table 5A-C1.3.2-C. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.3.2-D. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.3.3-A. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.8	3.7	3.7	3.8	3.8	3.6	3.6	3.7	3.9	4.0	4.0	3.9
20%	3.8	3.7	3.8	3.9	3.9	3.8	3.7	3.8	3.9	4.0	4.0	4.0
30%	3.8	3.7	3.9	3.9	4.0	3.9	3.7	3.8	4.0	4.1	4.0	4.0
40%	3.9	3.8	3.9	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.0	4.0
50%	3.9	3.8	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.1	4.1	4.1
60%	3.9	3.9	4.1	4.2	4.4	4.1	3.9	4.0	4.0	4.2	4.1	4.1
70%	4.0	3.9	4.2	4.3	4.6	4.3	4.0	4.0	4.1	4.2	4.2	4.1
80%	4.0	4.0	4.5	4.6	4.8	4.5	4.2	4.2	4.1	4.2	4.2	4.2
90%	4.1	4.2	4.6	5.1	5.4	4.9	4.4	4.3	4.2	4.3	4.2	4.2

Table 5A-C1.3.3-B. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Monthly Average Stage (Feet), Alternative 1/3 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.9	3.9	4.1	4.3	4.4	4.2	4.0	4.0	4.0	4.1	4.1	4.1
Wet Water Years	4.0	4.0	4.2	4.8	5.0	4.7	4.3	4.1	4.2	4.2	4.1	4.2
Above Normal Water Years	3.9	3.8	4.0	4.4	4.6	4.2	3.9	4.0	4.0	4.1	4.1	4.0
Below Normal Water Years	3.9	3.9	4.2	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.1	4.0
Dry Water Years	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.9	4.0	4.1	4.0	4.0
Critical Water Years	3.9	3.7	3.9	3.9	4.0	3.8	3.8	3.8	4.0	4.1	4.1	4.1

Table 5A-C1.3.3-C. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0

Table 5A-C1.3.3-D. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.3.4-A. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.8	3.7	3.7	3.8	3.8	3.6	3.6	3.7	3.9	4.0	4.0	3.9
20%	3.8	3.7	3.8	3.9	3.9	3.8	3.7	3.8	3.9	4.0	4.0	4.0
30%	3.8	3.7	3.9	3.9	4.0	3.9	3.7	3.8	4.0	4.1	4.0	4.0
40%	3.9	3.8	3.9	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.0	4.0
50%	3.9	3.8	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.1	4.1	4.1
60%	3.9	3.9	4.1	4.2	4.4	4.1	3.9	4.0	4.0	4.2	4.1	4.1
70%	4.0	3.9	4.2	4.3	4.6	4.3	4.0	4.0	4.1	4.2	4.2	4.1
80%	4.0	4.0	4.5	4.6	4.8	4.5	4.2	4.2	4.1	4.2	4.2	4.2
90%	4.1	4.2	4.6	5.1	5.4	4.9	4.4	4.3	4.2	4.3	4.2	4.2

Table 5A-C1.3.4-B. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Monthly Average Stage (Feet), Alternative 5 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.9	3.9	4.1	4.3	4.4	4.2	4.0	4.0	4.0	4.1	4.1	4.1
Wet Water Years	4.0	4.0	4.2	4.8	5.0	4.7	4.3	4.1	4.2	4.2	4.1	4.2
Above Normal Water Years	3.9	3.8	4.0	4.4	4.6	4.2	3.9	4.0	4.0	4.1	4.1	4.0
Below Normal Water Years	3.9	3.9	4.2	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.1	4.0
Dry Water Years	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.9	4.0	4.1	4.0	4.0
Critical Water Years	3.9	3.7	3.9	3.9	4.0	3.8	3.8	3.8	4.0	4.1	4.1	4.1

Table 5A-C1.3.4-C. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0

Table 5A-C1.3.4-D. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.3.5-A. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.8	3.7	3.7	3.8	3.8	3.6	3.6	3.7	3.9	4.0	4.0	3.9
20%	3.8	3.7	3.8	3.9	3.9	3.8	3.7	3.8	3.9	4.0	4.0	4.0
30%	3.8	3.7	3.9	3.9	4.0	3.9	3.7	3.8	4.0	4.1	4.0	4.0
40%	3.9	3.8	3.9	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.0	4.0
50%	3.9	3.8	4.0	4.1	4.2	4.0	3.9	3.9	4.0	4.1	4.1	4.1
60%	3.9	3.9	4.1	4.2	4.4	4.1	3.9	4.0	4.0	4.2	4.1	4.1
70%	4.0	3.9	4.2	4.3	4.6	4.3	4.0	4.0	4.1	4.2	4.2	4.1
80%	4.0	4.0	4.5	4.6	4.8	4.5	4.2	4.1	4.1	4.2	4.2	4.2
90%	4.1	4.2	4.6	5.1	5.4	4.9	4.4	4.3	4.2	4.3	4.2	4.2

Table 5A-C1.3.5-B. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.9	3.9	4.1	4.3	4.4	4.2	4.0	4.0	4.0	4.1	4.1	4.1
Wet Water Years	4.0	4.0	4.2	4.8	5.0	4.7	4.3	4.1	4.2	4.2	4.1	4.2
Above Normal Water Years	3.9	3.8	4.0	4.4	4.6	4.2	3.9	4.0	4.0	4.1	4.1	4.0
Below Normal Water Years	3.9	3.9	4.2	4.0	4.1	3.9	3.8	3.9	4.0	4.1	4.1	4.0
Dry Water Years	3.8	3.8	4.0	3.9	4.0	3.9	3.7	3.9	4.0	4.1	4.0	4.0
Critical Water Years	3.9	3.7	3.9	3.9	4.0	3.8	3.8	3.8	4.0	4.1	4.1	4.1

Table 5A-C1.3.5-C. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.0	0.0	0.0

1 **Table 5A-C1.3.5-D. Sacramento River at Rio Vista Mean Monthly Stage Location (RSAC101), Difference**
 2 **in Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions**

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Dry Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

3

C.1.4 Sacramento River Downstream of Intakes

Figure 5A-C1.4.1-A. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Probability of Exceedance for Existing Conditions

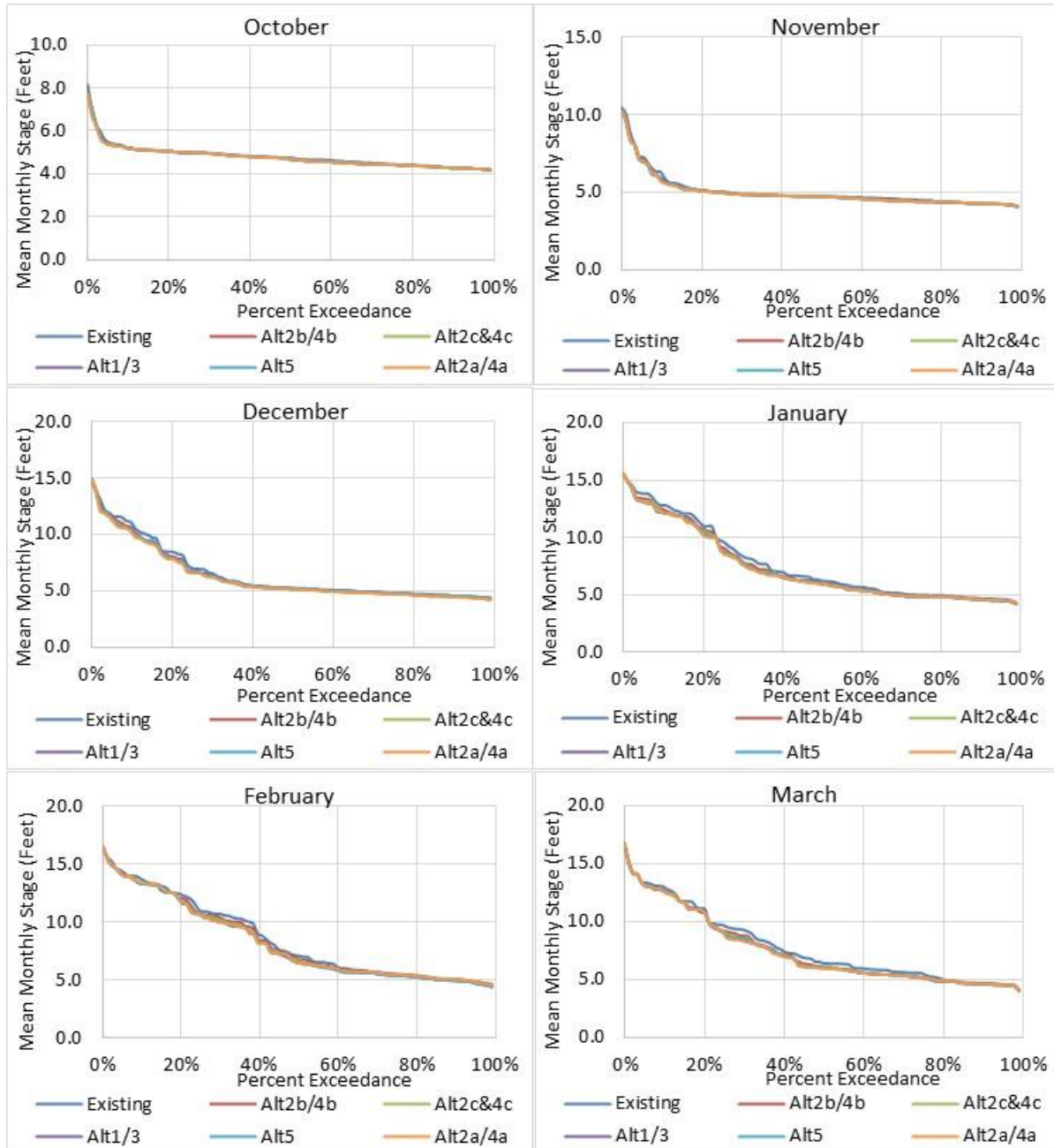


Figure 5A-C1.4.1-B. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Probability of Exceedance for Existing Conditions

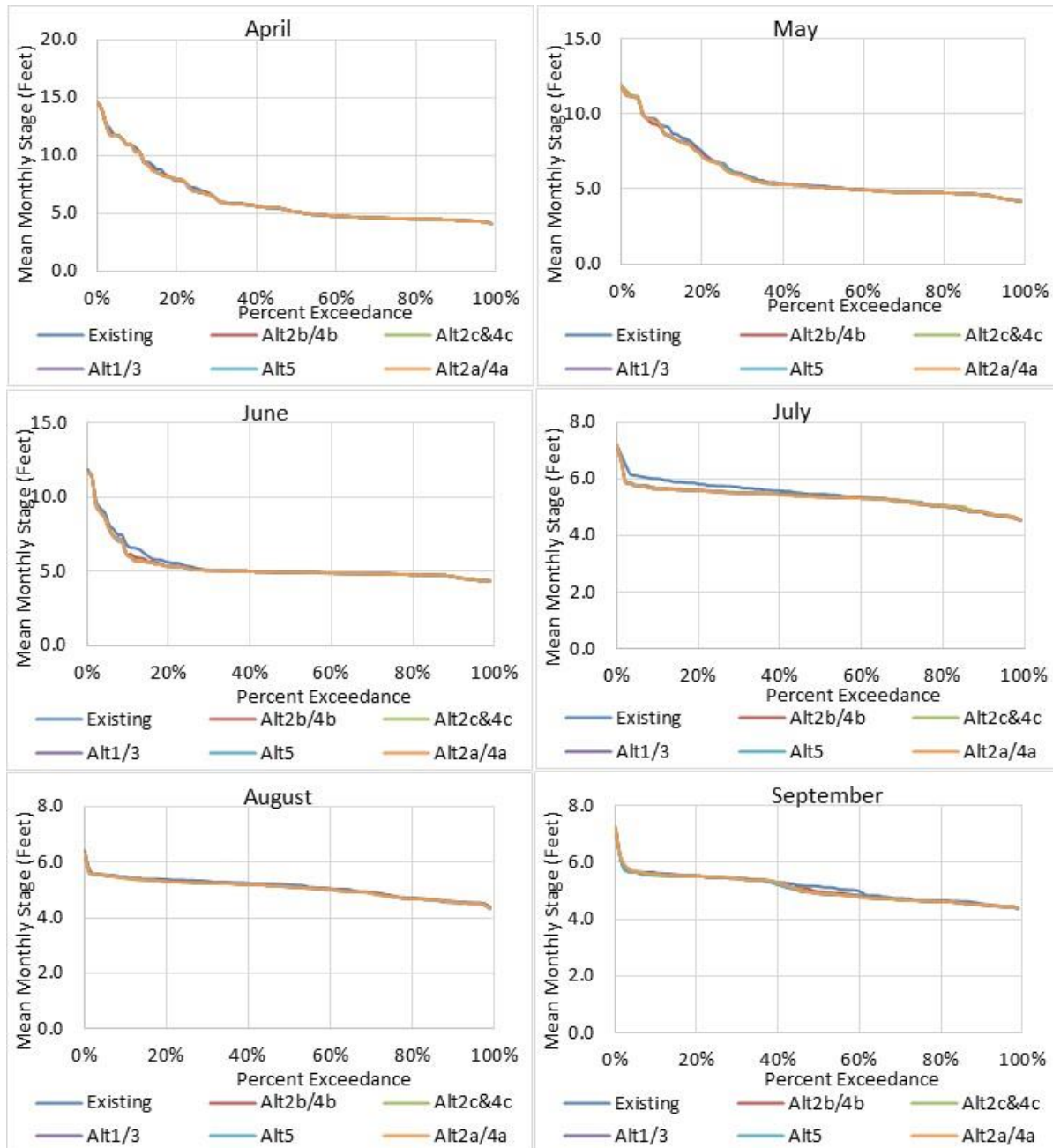


Table 5A-C1.4.1-A. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Exceedance Probabilities for Monthly Average Stage (Feet), Existing Condition

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.3	4.3	4.5	4.7	5.0	4.6	4.5	4.6	4.7	4.8	4.6	4.6
20%	4.4	4.4	4.7	4.9	5.4	5.1	4.5	4.7	4.8	5.1	4.7	4.7
30%	4.5	4.6	4.9	5.1	5.7	5.6	4.7	4.8	4.9	5.3	4.9	4.7
40%	4.7	4.7	5.1	5.7	6.4	5.9	4.8	5.0	4.9	5.4	5.1	5.0
50%	4.8	4.7	5.2	6.3	7.2	6.5	5.2	5.2	5.0	5.5	5.2	5.2
60%	4.8	4.8	5.4	7.0	9.2	7.6	5.7	5.4	5.1	5.6	5.3	5.3
70%	5.0	4.9	6.5	8.5	10.7	9.3	6.4	6.0	5.2	5.7	5.3	5.4
80%	5.1	5.1	8.4	11.2	12.4	11.1	8.0	7.6	5.7	5.8	5.4	5.5
90%	5.2	6.2	11.0	12.8	13.7	13.0	10.6	9.3	6.8	6.0	5.5	5.6

Table 5A-C1.4.1-B. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Monthly Average Stage (Feet), Existing Condition

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.8	5.0	6.5	7.6	8.6	7.8	6.3	6.1	5.5	5.5	5.1	5.1
Wet Water Years	5.2	5.5	6.9	10.7	12.1	10.8	8.9	7.8	6.4	5.7	5.3	5.6
Above Normal Water Years	4.9	5.3	6.4	8.8	9.6	8.7	6.1	6.6	5.7	5.7	5.3	5.4
Below Normal Water Years	4.9	5.1	7.3	6.0	6.8	6.3	5.2	5.2	5.0	5.6	5.2	5.0
Dry Water Years	4.4	4.6	5.7	5.2	6.4	5.8	4.7	4.8	4.9	5.2	4.7	4.6
Critical Water Years	4.4	4.3	5.1	5.1	5.3	5.0	4.5	4.6	4.7	4.8	4.6	4.6

Table 5A-C1.4.1-C. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.3	4.2	4.5	4.6	5.0	4.6	4.5	4.6	4.7	4.8	4.6	4.5
20%	4.4	4.4	4.7	4.9	5.3	4.9	4.6	4.7	4.8	5.0	4.7	4.6
30%	4.5	4.5	4.8	5.0	5.6	5.4	4.6	4.8	4.9	5.2	4.9	4.7
40%	4.6	4.6	5.0	5.5	6.0	5.6	4.8	4.9	5.0	5.3	5.1	4.8
50%	4.8	4.7	5.1	6.1	7.0	6.2	5.2	5.1	5.0	5.4	5.1	5.0
60%	4.8	4.8	5.4	6.7	8.7	7.2	5.7	5.3	5.1	5.5	5.2	5.3
70%	5.0	4.8	6.3	8.1	10.4	8.8	6.4	6.1	5.1	5.5	5.3	5.4
80%	5.1	5.1	8.1	10.8	12.0	10.8	7.9	7.4	5.4	5.6	5.3	5.5
90%	5.2	5.8	10.5	12.4	13.3	12.8	10.3	9.1	6.2	5.7	5.5	5.6

Table 5A-C1.4.1-D. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.8	5.0	6.3	7.4	8.4	7.6	6.3	6.0	5.4	5.4	5.1	5.1
Wet Water Years	5.2	5.4	6.8	10.4	11.8	10.6	8.7	7.7	6.3	5.6	5.3	5.6
Above Normal Water Years	4.9	5.2	6.3	8.5	9.2	8.4	6.0	6.5	5.5	5.5	5.3	5.4
Below Normal Water Years	4.8	5.0	7.1	5.8	6.6	6.0	5.3	5.2	5.0	5.4	5.2	4.9
Dry Water Years	4.4	4.5	5.6	5.1	6.2	5.6	4.7	4.9	4.9	5.2	4.7	4.6
Critical Water Years	4.4	4.3	5.0	5.0	5.3	4.9	4.5	4.6	4.7	4.8	4.6	4.6

Table 5A-C1.4.1-E. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
20%	0.0	0.0	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	-0.1	-0.1	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
40%	-0.1	-0.1	-0.1	-0.2	-0.4	-0.3	0.0	0.0	0.0	0.0	0.0	-0.2
50%	0.0	0.0	-0.1	-0.2	-0.2	-0.3	0.0	-0.1	0.0	-0.1	-0.1	-0.2
60%	0.0	0.0	0.0	-0.3	-0.5	-0.3	0.0	0.0	0.0	-0.1	-0.1	0.0
70%	0.0	-0.1	-0.2	-0.4	-0.3	-0.5	0.0	0.0	0.0	-0.2	-0.1	0.0
80%	0.0	0.0	-0.4	-0.4	-0.4	-0.3	-0.1	-0.2	-0.3	-0.2	-0.1	0.0
90%	0.0	-0.4	-0.4	-0.3	-0.4	-0.2	-0.4	-0.2	-0.6	-0.3	0.0	-0.1

Table 5A-C1.4.1-F. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	-0.1	-0.1	-0.2	-0.2	-0.2	0.0	-0.1	-0.1	-0.1	0.0	-0.1
Wet Water Years	0.0	-0.1	-0.2	-0.3	-0.2	-0.2	-0.1	-0.1	-0.2	-0.1	-0.1	0.0
Above Normal Water Years	0.0	0.0	-0.1	-0.3	-0.4	-0.4	0.0	-0.2	-0.2	-0.2	0.0	0.0
Below Normal Water Years	-0.1	-0.1	-0.2	-0.2	-0.2	-0.3	0.0	0.0	0.0	-0.2	-0.1	-0.1
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.1	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.4.2-A. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.3	4.2	4.5	4.6	5.0	4.6	4.5	4.6	4.7	4.8	4.6	4.5
20%	4.4	4.4	4.7	4.8	5.3	4.9	4.6	4.7	4.8	5.1	4.7	4.6
30%	4.5	4.4	4.8	5.0	5.6	5.4	4.6	4.8	4.9	5.2	4.9	4.7
40%	4.6	4.6	5.0	5.4	6.0	5.6	4.8	4.9	4.9	5.3	5.0	4.8
50%	4.7	4.7	5.1	6.1	6.8	6.1	5.2	5.1	5.0	5.4	5.1	5.0
60%	4.8	4.8	5.4	6.7	8.6	7.2	5.7	5.3	5.1	5.5	5.2	5.3
70%	5.0	4.9	6.3	8.0	10.2	8.6	6.4	6.0	5.1	5.5	5.2	5.5
80%	5.1	5.1	7.9	10.6	11.9	10.9	8.0	7.3	5.4	5.6	5.3	5.5
90%	5.2	5.8	10.3	12.2	13.3	12.7	10.4	9.2	6.2	5.7	5.4	5.6

Table 5A-C1.4.2-B. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.8	5.0	6.3	7.4	8.3	7.5	6.3	6.0	5.4	5.4	5.1	5.1
Wet Water Years	5.2	5.4	6.7	10.3	11.8	10.6	8.7	7.7	6.3	5.6	5.3	5.6
Above Normal Water Years	4.9	5.2	6.2	8.4	9.1	8.2	6.0	6.5	5.4	5.5	5.3	5.4
Below Normal Water Years	4.8	5.0	7.1	5.8	6.5	5.9	5.3	5.2	5.0	5.4	5.2	4.8
Dry Water Years	4.4	4.5	5.5	5.0	6.2	5.5	4.7	4.8	4.9	5.2	4.7	4.6
Critical Water Years	4.4	4.3	5.0	5.0	5.3	4.9	4.5	4.6	4.7	4.8	4.6	4.6

Table 5A-C1.4.2-C. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
30%	-0.1	-0.1	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
40%	-0.1	-0.1	-0.1	-0.2	-0.4	-0.3	0.0	0.0	0.0	-0.1	-0.1	-0.2
50%	-0.1	0.0	-0.1	-0.2	-0.3	-0.4	0.0	-0.1	0.0	-0.1	-0.1	-0.2
60%	0.0	0.0	0.0	-0.3	-0.6	-0.4	0.0	-0.1	0.0	-0.1	-0.1	-0.1
70%	0.0	-0.1	-0.2	-0.5	-0.5	-0.7	0.0	-0.1	0.0	-0.2	-0.1	0.0
80%	0.0	0.0	-0.5	-0.5	-0.5	-0.2	0.0	-0.3	-0.3	-0.2	-0.1	0.0
90%	0.0	-0.4	-0.6	-0.5	-0.4	-0.3	-0.3	-0.1	-0.7	-0.3	0.0	-0.1

Table 5A-C1.4.2-D. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	-0.1	-0.2	-0.3	-0.3	-0.3	0.0	-0.1	-0.1	-0.1	0.0	-0.1
Wet Water Years	0.0	-0.1	-0.2	-0.4	-0.3	-0.3	-0.1	-0.1	-0.2	-0.1	-0.1	0.0
Above Normal Water Years	0.0	0.0	-0.2	-0.4	-0.5	-0.5	0.0	-0.2	-0.3	-0.2	-0.1	0.0
Below Normal Water Years	-0.1	-0.2	-0.2	-0.2	-0.3	-0.4	0.0	0.0	0.0	-0.2	-0.1	-0.2
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.2	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	-0.1	-0.1	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.4.3-A. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.3	4.2	4.5	4.6	5.0	4.6	4.5	4.6	4.7	4.8	4.6	4.5
20%	4.4	4.3	4.7	4.9	5.3	4.9	4.6	4.7	4.8	5.0	4.7	4.6
30%	4.5	4.4	4.8	5.0	5.6	5.4	4.6	4.8	4.9	5.2	4.9	4.7
40%	4.6	4.6	5.0	5.5	6.0	5.6	4.8	4.9	5.0	5.3	5.0	4.8
50%	4.7	4.7	5.1	6.1	6.6	6.0	5.2	5.1	5.0	5.4	5.1	4.9
60%	4.8	4.7	5.4	6.7	8.5	7.1	5.7	5.3	5.1	5.5	5.2	5.3
70%	5.0	4.8	6.3	7.9	10.1	8.5	6.4	6.0	5.1	5.5	5.2	5.5
80%	5.1	5.1	7.8	10.5	11.9	10.9	8.0	7.4	5.4	5.6	5.3	5.5
90%	5.2	5.8	10.3	12.1	13.3	12.6	10.4	9.2	6.2	5.6	5.5	5.6

Table 5A-C1.4.3-B. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Monthly Average Stage (Feet), Alternative 1/3 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.8	5.0	6.3	7.3	8.3	7.5	6.3	6.0	5.4	5.3	5.1	5.1
Wet Water Years	5.2	5.4	6.7	10.3	11.7	10.6	8.7	7.6	6.3	5.6	5.3	5.6
Above Normal Water Years	4.9	5.2	6.2	8.2	9.0	8.2	6.0	6.5	5.4	5.5	5.3	5.4
Below Normal Water Years	4.8	5.0	7.0	5.8	6.5	5.9	5.3	5.2	5.0	5.4	5.2	4.8
Dry Water Years	4.4	4.5	5.5	5.0	6.1	5.5	4.7	4.9	4.9	5.1	4.7	4.6
Critical Water Years	4.4	4.3	5.0	5.0	5.2	4.9	4.5	4.6	4.7	4.8	4.6	4.6

Table 5A-C1.4.3-C. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	-0.2	-0.1	-0.1	-0.1	-0.3	0.0	0.0	0.0	-0.1	0.0	0.0
40%	-0.1	-0.1	-0.1	-0.2	-0.4	-0.3	0.0	0.0	0.0	-0.1	-0.1	-0.2
50%	-0.1	0.0	-0.1	-0.2	-0.5	-0.5	0.0	-0.1	0.0	-0.1	-0.1	-0.3
60%	0.0	-0.1	0.0	-0.3	-0.7	-0.5	0.0	-0.1	0.0	-0.1	-0.1	-0.1
70%	0.0	-0.1	-0.3	-0.6	-0.7	-0.8	0.0	-0.1	0.0	-0.2	-0.1	0.0
80%	0.0	0.0	-0.6	-0.6	-0.5	-0.2	-0.1	-0.2	-0.3	-0.3	-0.1	0.0
90%	0.0	-0.4	-0.7	-0.6	-0.4	-0.4	-0.3	-0.1	-0.7	-0.4	0.0	-0.1

Table 5A-C1.4.3-D. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	-0.1	-0.2	-0.3	-0.3	-0.3	0.0	-0.1	-0.1	-0.1	0.0	-0.1
Wet Water Years	0.0	-0.1	-0.2	-0.5	-0.3	-0.3	-0.1	-0.1	-0.2	-0.1	-0.1	0.0
Above Normal Water Years	0.0	0.0	-0.2	-0.5	-0.6	-0.5	-0.1	-0.1	-0.3	-0.2	-0.1	0.0
Below Normal Water Years	-0.1	-0.2	-0.2	-0.2	-0.3	-0.4	0.0	0.0	0.0	-0.2	-0.1	-0.2
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.3	-0.3	0.0	0.1	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.4.4-A. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.3	4.2	4.5	4.6	5.0	4.6	4.5	4.6	4.7	4.8	4.6	4.5
20%	4.4	4.3	4.7	4.9	5.3	4.9	4.6	4.7	4.8	5.0	4.7	4.6
30%	4.5	4.4	4.8	5.0	5.6	5.4	4.6	4.8	4.9	5.2	4.9	4.7
40%	4.6	4.6	5.0	5.5	6.0	5.6	4.8	4.9	5.0	5.3	5.0	4.8
50%	4.8	4.7	5.1	6.1	6.6	6.0	5.2	5.1	5.0	5.4	5.1	4.9
60%	4.8	4.8	5.4	6.7	8.5	7.1	5.7	5.3	5.1	5.5	5.2	5.3
70%	5.0	4.8	6.3	7.9	10.0	8.5	6.4	6.0	5.1	5.5	5.2	5.5
80%	5.0	5.0	7.8	10.5	11.9	10.9	8.0	7.3	5.4	5.6	5.3	5.5
90%	5.2	5.8	10.3	12.1	13.3	12.6	10.3	9.2	6.2	5.6	5.5	5.5

Table 5A-C1.4.4-B. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Monthly Average Stage (Feet), Alternative 5 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.8	4.9	6.3	7.3	8.3	7.5	6.3	6.0	5.4	5.3	5.1	5.1
Wet Water Years	5.2	5.4	6.7	10.3	11.7	10.6	8.7	7.6	6.3	5.6	5.3	5.6
Above Normal Water Years	4.9	5.2	6.2	8.3	9.0	8.2	6.0	6.5	5.4	5.5	5.3	5.4
Below Normal Water Years	4.8	4.9	7.0	5.8	6.5	5.9	5.3	5.2	5.0	5.4	5.2	4.8
Dry Water Years	4.4	4.5	5.5	5.0	6.1	5.5	4.7	4.9	4.9	5.2	4.7	4.6
Critical Water Years	4.4	4.3	5.0	5.0	5.2	4.9	4.5	4.6	4.7	4.8	4.6	4.6

Table 5A-C1.4.4-C. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20%	0.0	0.0	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	-0.2	-0.1	-0.1	-0.1	-0.3	0.0	0.0	0.0	-0.1	0.0	0.0
40%	-0.1	-0.1	-0.1	-0.2	-0.4	-0.3	0.0	0.0	0.0	-0.1	-0.1	-0.2
50%	0.0	0.0	-0.1	-0.2	-0.5	-0.5	0.0	-0.1	0.0	-0.1	-0.1	-0.3
60%	0.0	0.0	0.0	-0.3	-0.7	-0.5	0.0	-0.1	0.0	-0.1	-0.1	-0.1
70%	0.0	-0.1	-0.3	-0.6	-0.7	-0.8	0.0	-0.1	0.0	-0.2	-0.1	0.0
80%	0.0	-0.1	-0.6	-0.6	-0.6	-0.2	-0.1	-0.3	-0.3	-0.3	-0.1	0.0
90%	0.0	-0.5	-0.7	-0.6	-0.4	-0.4	-0.3	-0.1	-0.7	-0.4	0.0	-0.1

Table 5A-C1.4.4-D. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	-0.1	-0.2	-0.3	-0.3	-0.3	0.0	-0.1	-0.1	-0.1	0.0	-0.1
Wet Water Years	0.0	-0.1	-0.2	-0.5	-0.3	-0.3	-0.1	-0.1	-0.2	-0.1	-0.1	0.0
Above Normal Water Years	0.0	-0.1	-0.2	-0.5	-0.6	-0.5	-0.1	-0.2	-0.3	-0.2	-0.1	0.0
Below Normal Water Years	-0.1	-0.2	-0.2	-0.2	-0.3	-0.4	0.0	0.0	0.0	-0.2	-0.1	-0.2
Dry Water Years	0.0	-0.1	-0.1	-0.1	-0.3	-0.3	0.0	0.1	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.4.5-A. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.3	4.2	4.5	4.7	5.0	4.6	4.5	4.6	4.7	4.8	4.6	4.5
20%	4.4	4.3	4.7	4.9	5.3	4.9	4.6	4.7	4.8	5.1	4.7	4.6
30%	4.5	4.4	4.8	5.0	5.6	5.3	4.6	4.8	4.9	5.2	4.9	4.7
40%	4.6	4.6	5.0	5.5	6.0	5.6	4.8	4.9	5.0	5.3	5.0	4.8
50%	4.7	4.7	5.2	6.0	6.5	6.0	5.2	5.1	5.0	5.4	5.1	4.9
60%	4.8	4.8	5.4	6.6	8.3	7.0	5.7	5.3	5.1	5.5	5.2	5.3
70%	5.0	4.8	6.2	7.9	10.0	8.3	6.4	5.9	5.1	5.5	5.3	5.5
80%	5.1	5.0	7.8	10.4	11.9	10.9	8.0	7.3	5.4	5.6	5.3	5.5
90%	5.2	5.7	10.2	12.2	13.4	12.6	10.3	9.2	6.2	5.7	5.4	5.6

Table 5A-C1.4.5-B. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.8	4.9	6.3	7.3	8.3	7.5	6.3	6.0	5.4	5.3	5.1	5.1
Wet Water Years	5.2	5.4	6.7	10.3	11.7	10.6	8.7	7.6	6.3	5.6	5.3	5.6
Above Normal Water Years	4.9	5.2	6.2	8.2	9.0	8.1	6.0	6.5	5.4	5.5	5.3	5.4
Below Normal Water Years	4.8	4.9	7.0	5.8	6.5	5.9	5.3	5.2	5.0	5.4	5.2	4.8
Dry Water Years	4.4	4.5	5.5	5.0	6.1	5.5	4.7	4.8	4.9	5.2	4.7	4.6
Critical Water Years	4.4	4.3	4.9	5.0	5.2	4.9	4.5	4.6	4.7	4.8	4.6	4.6

Table 5A-C1.4.5-C. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1
20%	0.0	0.0	0.0	-0.1	-0.1	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
30%	-0.1	-0.2	0.0	-0.1	-0.1	-0.3	0.0	0.0	0.0	-0.1	0.0	0.0
40%	-0.1	-0.1	-0.1	-0.2	-0.4	-0.3	0.0	0.0	0.0	-0.1	0.0	-0.2
50%	-0.1	0.0	-0.1	-0.3	-0.7	-0.5	0.0	-0.1	0.0	-0.1	-0.1	-0.3
60%	0.0	0.0	0.0	-0.3	-0.9	-0.5	0.0	-0.1	0.0	-0.1	-0.1	0.0
70%	0.0	-0.1	-0.3	-0.6	-0.7	-1.0	0.0	-0.1	0.0	-0.2	-0.1	0.0
80%	0.0	-0.1	-0.6	-0.8	-0.5	-0.2	-0.1	-0.3	-0.3	-0.3	-0.1	0.0
90%	0.0	-0.6	-0.8	-0.6	-0.3	-0.4	-0.3	-0.1	-0.7	-0.4	0.0	-0.1

Table 5A-C1.4.5-D. Sacramento River Downstream of Intakes Mean Monthly Stage Location (RSAC139), Difference in Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	-0.1	-0.2	-0.3	-0.3	-0.3	0.0	-0.1	-0.1	-0.1	0.0	-0.1
Wet Water Years	0.0	-0.1	-0.2	-0.5	-0.3	-0.3	-0.1	-0.1	-0.2	-0.1	-0.1	0.0
Above Normal Water Years	0.0	0.0	-0.2	-0.6	-0.6	-0.6	0.0	-0.2	-0.3	-0.2	-0.1	0.0
Below Normal Water Years	-0.1	-0.2	-0.3	-0.3	-0.4	-0.4	0.0	0.0	0.0	-0.2	-0.1	-0.2
Dry Water Years	0.0	-0.1	-0.2	-0.1	-0.3	-0.3	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	-0.1	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0

C.1.5 Old River near Tracy Road Bridge

Figure 5A-C1.5.1-A. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Probability of Exceedance for Existing Conditions

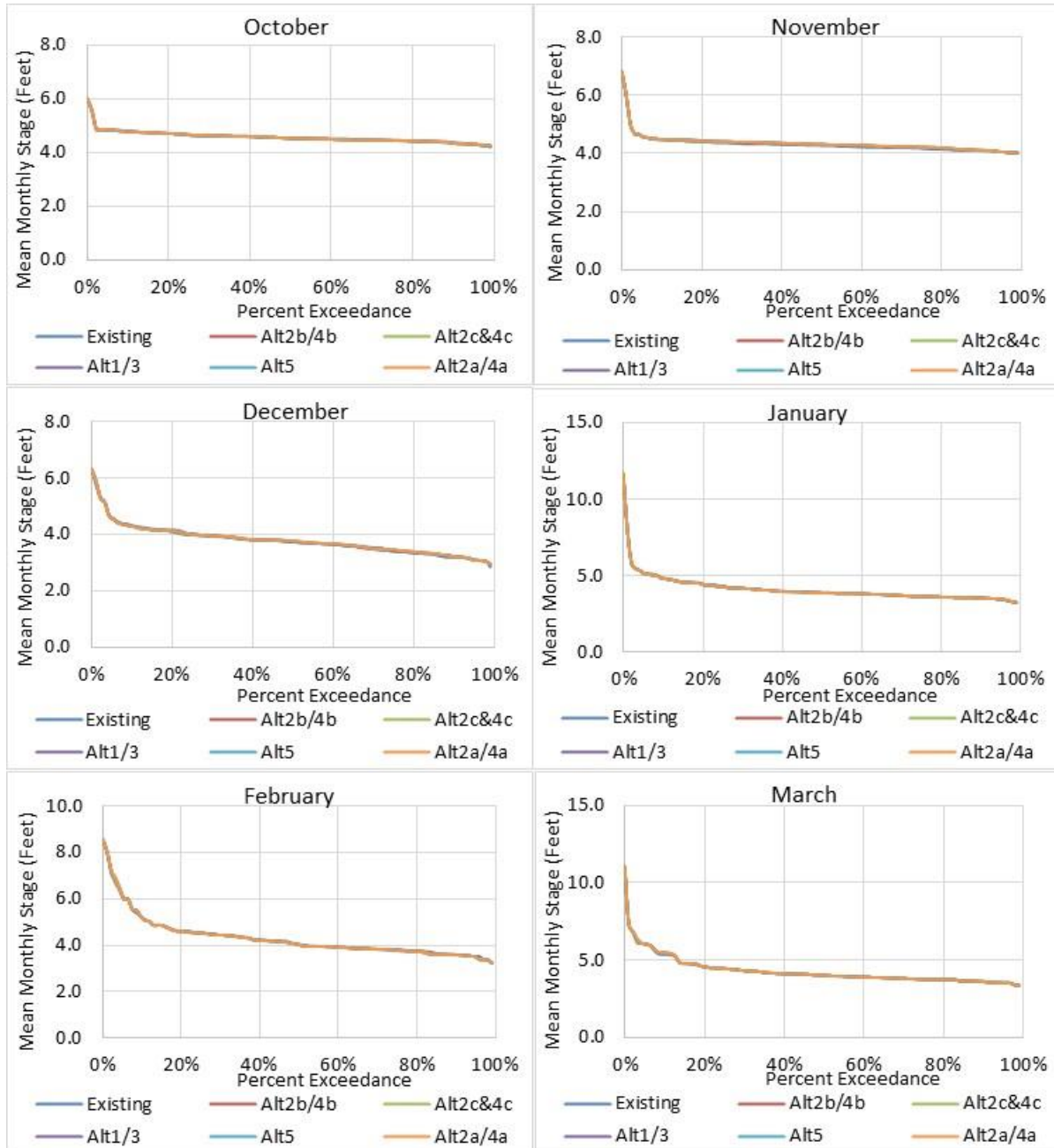


Figure 5A-C1.5.1-B. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Probability of Exceedance for Existing Conditions

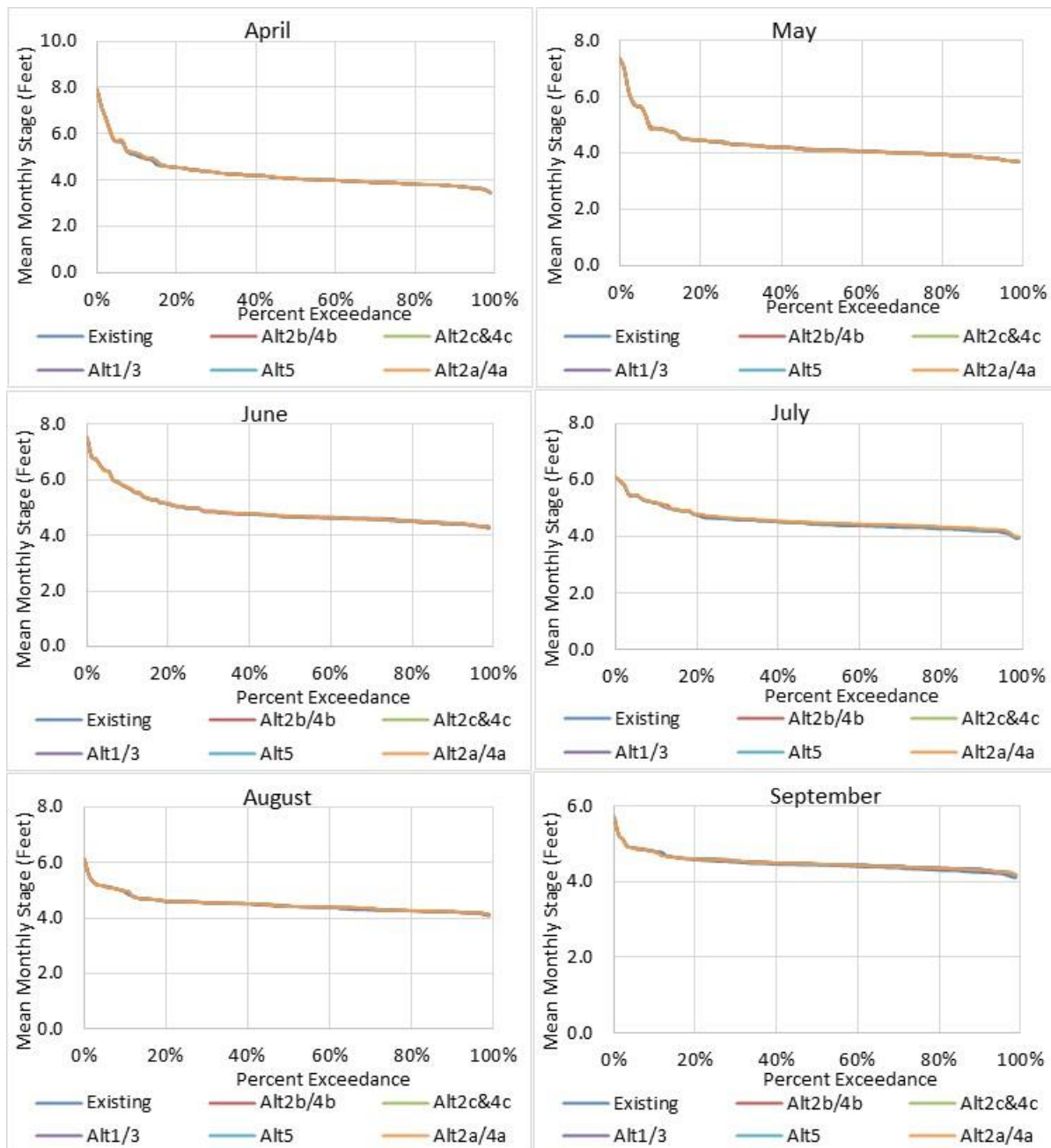


Table 5A-C1.5.1-A. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Exceedance Probabilities for Monthly Average Stage (Feet), Existing Condition

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.3	4.1	3.2	3.6	3.6	3.6	3.7	3.8	4.4	4.2	4.2	4.3
20%	4.4	4.1	3.3	3.6	3.7	3.7	3.8	4.0	4.5	4.3	4.3	4.3
30%	4.5	4.2	3.5	3.7	3.8	3.8	3.9	4.0	4.6	4.3	4.3	4.4
40%	4.5	4.2	3.6	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.4	4.4
50%	4.5	4.3	3.8	3.9	4.1	4.0	4.1	4.1	4.7	4.4	4.4	4.4
60%	4.6	4.3	3.8	4.0	4.2	4.1	4.2	4.2	4.8	4.5	4.5	4.5
70%	4.6	4.3	4.0	4.2	4.4	4.4	4.3	4.3	4.9	4.6	4.6	4.5
80%	4.7	4.4	4.1	4.5	4.6	4.6	4.5	4.4	5.2	4.7	4.6	4.6
90%	4.8	4.5	4.3	4.9	5.2	5.4	5.1	4.9	5.7	5.2	5.0	4.8

Table 5A-C1.5.1-B. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Monthly Average Stage (Feet), Existing Condition

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.6	4.3	3.8	4.2	4.3	4.3	4.3	4.3	4.9	4.6	4.5	4.5
Wet Water Years	4.7	4.5	3.8	4.9	5.1	5.1	4.9	4.8	5.4	4.9	4.7	4.6
Above Normal Water Years	4.6	4.2	3.6	4.2	4.5	4.3	4.2	4.3	5.1	4.6	4.4	4.4
Below Normal Water Years	4.5	4.3	3.9	3.8	3.9	3.9	4.0	4.1	4.6	4.3	4.3	4.3
Dry Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.8	4.0	4.5	4.3	4.5	4.5
Critical Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.9	4.0	4.5	4.6	4.6	4.5

Table 5A-C1.5.1-C. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.4	4.1	3.2	3.6	3.6	3.6	3.7	3.9	4.4	4.3	4.2	4.3
20%	4.4	4.2	3.4	3.6	3.8	3.7	3.8	4.0	4.5	4.3	4.3	4.4
30%	4.5	4.2	3.5	3.7	3.8	3.8	3.9	4.0	4.6	4.4	4.4	4.4
40%	4.5	4.3	3.7	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.4	4.4
50%	4.5	4.3	3.7	3.9	4.1	4.0	4.1	4.1	4.7	4.5	4.4	4.5
60%	4.6	4.3	3.8	4.0	4.2	4.1	4.2	4.2	4.8	4.5	4.5	4.5
70%	4.6	4.4	4.0	4.2	4.4	4.3	4.3	4.3	4.9	4.6	4.6	4.5
80%	4.7	4.4	4.1	4.5	4.6	4.6	4.5	4.4	5.2	4.8	4.6	4.6
90%	4.8	4.5	4.3	4.8	5.2	5.4	5.1	4.9	5.7	5.2	5.0	4.7

Table 5A-C1.5.1-D. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.6	4.3	3.8	4.2	4.3	4.3	4.3	4.3	4.9	4.6	4.5	4.5
Wet Water Years	4.7	4.5	3.8	4.9	5.1	5.2	5.0	4.8	5.4	4.9	4.7	4.6
Above Normal Water Years	4.6	4.2	3.5	4.2	4.5	4.3	4.2	4.3	5.1	4.6	4.5	4.4
Below Normal Water Years	4.5	4.3	3.9	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.3	4.3
Dry Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.8	4.0	4.5	4.3	4.5	4.5
Critical Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.9	4.0	4.6	4.6	4.6	4.5

Table 5A-C1.5.1-E. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.5.1-F. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.5.2-A. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.4	4.1	3.2	3.6	3.6	3.6	3.7	3.9	4.4	4.2	4.2	4.3
20%	4.4	4.2	3.4	3.6	3.7	3.7	3.8	3.9	4.5	4.3	4.3	4.4
30%	4.5	4.2	3.5	3.7	3.8	3.8	3.9	4.0	4.6	4.4	4.4	4.4
40%	4.5	4.3	3.7	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.4	4.4
50%	4.5	4.3	3.8	3.9	4.1	4.0	4.1	4.1	4.7	4.5	4.4	4.5
60%	4.6	4.4	3.8	4.0	4.2	4.1	4.2	4.2	4.8	4.5	4.5	4.5
70%	4.6	4.4	3.9	4.2	4.4	4.3	4.3	4.3	4.9	4.6	4.6	4.5
80%	4.7	4.4	4.1	4.5	4.6	4.6	4.5	4.5	5.2	4.8	4.6	4.6
90%	4.8	4.5	4.3	4.8	5.2	5.5	5.1	4.9	5.7	5.2	5.0	4.8

Table 5A-C1.5.2-B. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.6	4.4	3.8	4.2	4.3	4.3	4.3	4.3	4.9	4.6	4.5	4.5
Wet Water Years	4.7	4.5	3.8	4.9	5.1	5.2	5.0	4.8	5.4	4.9	4.7	4.6
Above Normal Water Years	4.6	4.2	3.6	4.2	4.5	4.3	4.2	4.3	5.1	4.6	4.5	4.4
Below Normal Water Years	4.5	4.3	3.9	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.3	4.4
Dry Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.8	4.0	4.5	4.3	4.5	4.5
Critical Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.9	4.0	4.6	4.6	4.5	4.5

Table 5A-C1.5.2-C. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0
40%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.5.2-D. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.5.3-A. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.4	4.1	3.2	3.6	3.6	3.6	3.7	3.9	4.4	4.2	4.2	4.3
20%	4.4	4.2	3.4	3.6	3.7	3.7	3.8	3.9	4.5	4.3	4.3	4.4
30%	4.5	4.2	3.5	3.7	3.8	3.8	3.9	4.0	4.6	4.4	4.4	4.4
40%	4.5	4.3	3.7	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.4	4.4
50%	4.5	4.3	3.7	3.9	4.1	4.0	4.1	4.1	4.7	4.5	4.4	4.5
60%	4.6	4.4	3.8	4.0	4.2	4.1	4.2	4.2	4.8	4.5	4.5	4.5
70%	4.6	4.4	4.0	4.2	4.4	4.3	4.3	4.3	4.9	4.6	4.6	4.5
80%	4.7	4.4	4.1	4.5	4.6	4.6	4.5	4.5	5.2	4.8	4.6	4.6
90%	4.8	4.5	4.3	4.8	5.2	5.5	5.1	4.9	5.7	5.2	5.0	4.8

Table 5A-C1.5.3-B. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Monthly Average Stage (Feet), Alternative 1/3 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.6	4.4	3.8	4.2	4.3	4.3	4.3	4.3	4.9	4.6	4.5	4.5
Wet Water Years	4.7	4.5	3.8	4.8	5.1	5.2	5.0	4.8	5.4	4.9	4.7	4.6
Above Normal Water Years	4.6	4.2	3.6	4.2	4.5	4.3	4.2	4.3	5.1	4.6	4.5	4.4
Below Normal Water Years	4.5	4.3	3.9	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.3	4.4
Dry Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.8	4.0	4.5	4.3	4.5	4.5
Critical Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.9	4.0	4.6	4.6	4.6	4.5

Table 5A-C1.5.3-C. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
40%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.5.3-D. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.5.4-A. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.4	4.1	3.2	3.6	3.6	3.6	3.7	3.9	4.4	4.2	4.2	4.3
20%	4.4	4.2	3.4	3.6	3.7	3.7	3.8	3.9	4.5	4.3	4.3	4.4
30%	4.5	4.2	3.5	3.7	3.8	3.8	3.9	4.0	4.6	4.4	4.4	4.4
40%	4.5	4.3	3.7	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.4	4.4
50%	4.5	4.3	3.8	3.9	4.1	4.0	4.1	4.1	4.7	4.5	4.4	4.5
60%	4.6	4.4	3.8	4.0	4.2	4.1	4.2	4.2	4.8	4.5	4.5	4.5
70%	4.6	4.4	4.0	4.2	4.4	4.3	4.3	4.3	4.9	4.6	4.6	4.5
80%	4.7	4.4	4.1	4.5	4.6	4.6	4.5	4.5	5.2	4.8	4.6	4.6
90%	4.8	4.5	4.3	4.8	5.2	5.5	5.1	4.9	5.7	5.2	5.0	4.8

Table 5A-C1.5.4-B. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Monthly Average Stage (Feet), Alternative 5 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.6	4.4	3.8	4.2	4.3	4.3	4.3	4.3	4.9	4.6	4.5	4.5
Wet Water Years	4.7	4.5	3.8	4.8	5.1	5.2	5.0	4.8	5.4	4.9	4.7	4.6
Above Normal Water Years	4.6	4.2	3.6	4.2	4.5	4.3	4.2	4.3	5.1	4.6	4.5	4.4
Below Normal Water Years	4.5	4.3	3.9	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.3	4.4
Dry Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.8	4.0	4.5	4.3	4.5	4.5
Critical Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.9	4.0	4.6	4.6	4.6	4.5

Table 5A-C1.5.4-C. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
40%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.5.4-D. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.5.5-A. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	4.4	4.1	3.2	3.6	3.6	3.6	3.7	3.9	4.4	4.3	4.2	4.3
20%	4.4	4.2	3.4	3.6	3.7	3.7	3.8	3.9	4.5	4.3	4.3	4.4
30%	4.5	4.2	3.5	3.7	3.8	3.8	3.9	4.0	4.6	4.4	4.4	4.4
40%	4.5	4.3	3.7	3.8	3.9	3.9	4.0	4.1	4.7	4.4	4.4	4.4
50%	4.5	4.3	3.8	3.9	4.1	4.0	4.1	4.1	4.7	4.5	4.4	4.5
60%	4.6	4.4	3.8	4.0	4.2	4.1	4.2	4.2	4.8	4.5	4.5	4.5
70%	4.6	4.4	4.0	4.2	4.4	4.3	4.3	4.3	4.9	4.6	4.6	4.5
80%	4.7	4.4	4.1	4.5	4.6	4.6	4.5	4.5	5.2	4.8	4.6	4.6
90%	4.8	4.5	4.3	4.8	5.2	5.5	5.2	4.9	5.7	5.2	5.0	4.8

Table 5A-C1.5.5-B. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	4.6	4.4	3.8	4.2	4.3	4.3	4.3	4.3	4.9	4.6	4.5	4.5
Wet Water Years	4.7	4.5	3.8	4.8	5.1	5.2	5.0	4.8	5.4	4.9	4.7	4.6
Above Normal Water Years	4.6	4.2	3.6	4.2	4.5	4.3	4.2	4.3	5.1	4.6	4.5	4.4
Below Normal Water Years	4.5	4.3	3.9	3.8	3.9	3.9	4.0	4.1	4.6	4.4	4.3	4.4
Dry Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.8	4.0	4.5	4.3	4.5	4.5
Critical Water Years	4.5	4.3	3.8	3.7	3.8	3.8	3.9	4.0	4.6	4.6	4.6	4.5

Table 5A-C1.5.5-C. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
20%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
40%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

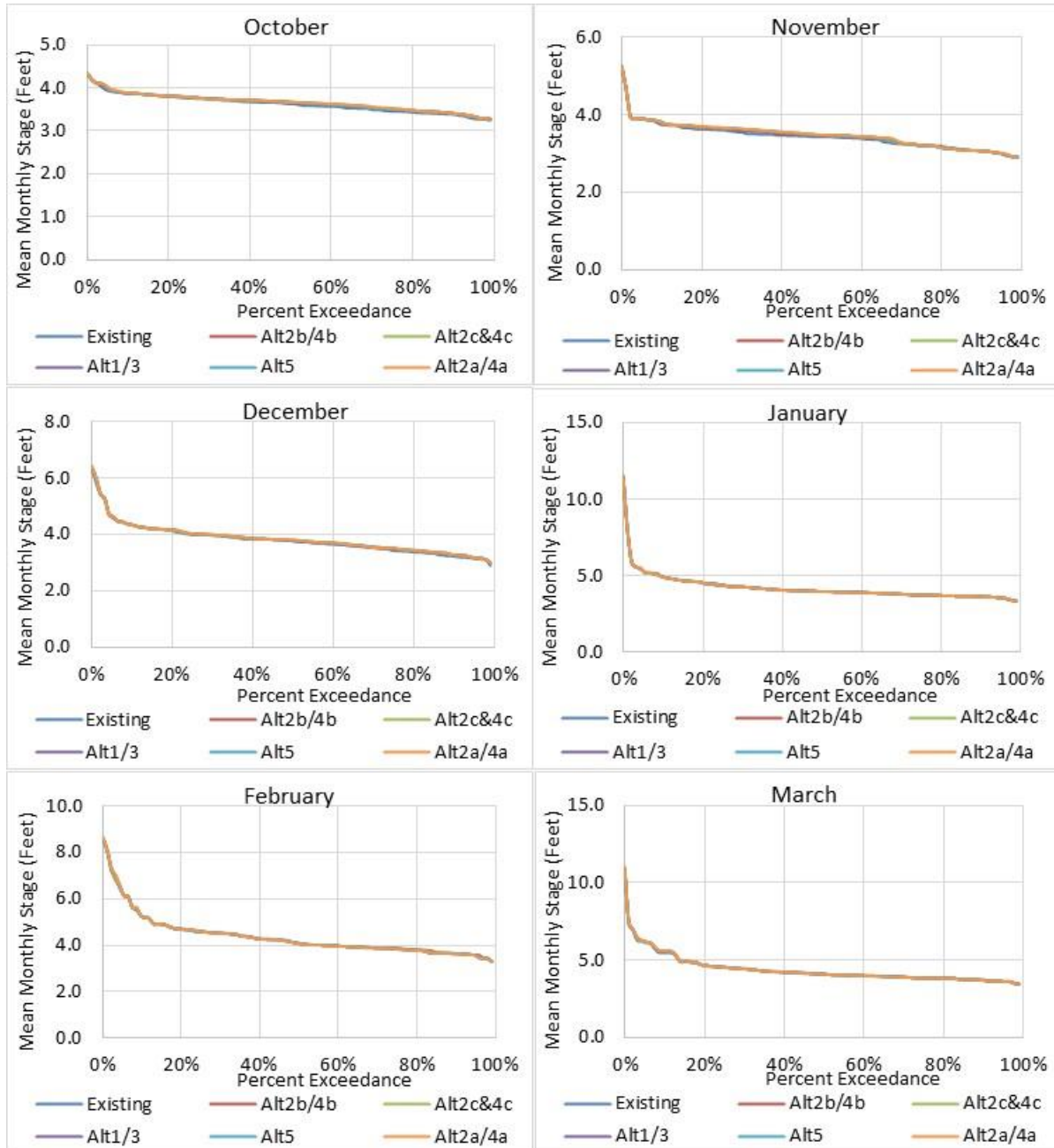
1 **Table 5A-C1.5.5-D. Old River (near Tracy Road Bridge) Mean Monthly Stage Location (ROLD059),**
2 **Difference in Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions**

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Below Normal Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

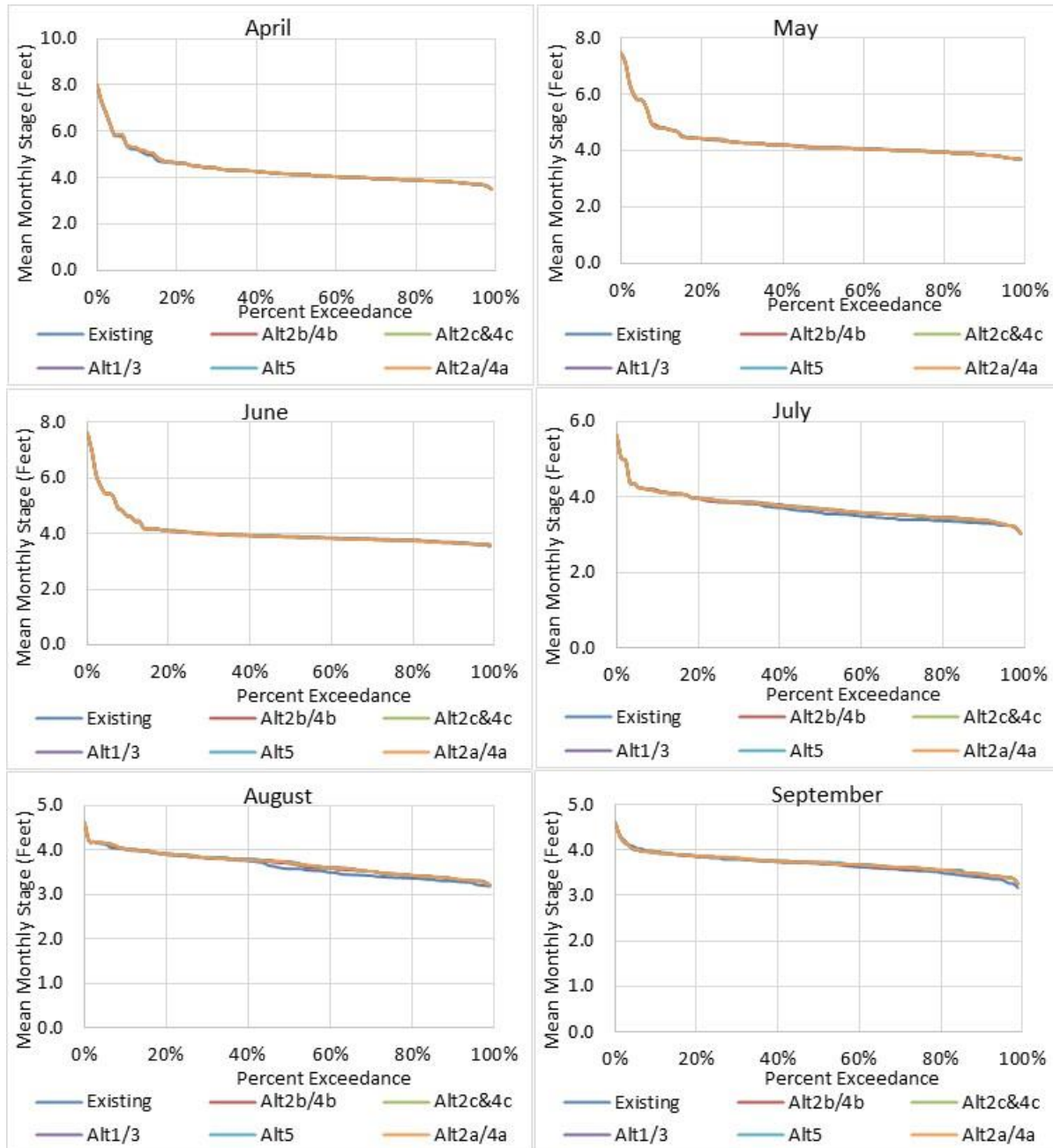
3

C.1.6 Grant Line Canal near Grant Line Canal Barrier

Figure 5A-C1.6.1-A. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Probability of Exceedance for Existing Conditions



1 **Figure 5A-C1.6.1-B. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location**
 2 **(CHGRL009), Probability of Exceedance for Existing Conditions**



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Table 5A-C1.6.1-A. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Exceedance Probabilities for Monthly Average Stage (Feet), Existing Condition

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.2	3.6	3.6	3.7	3.8	3.9	3.7	3.3	3.3	3.4
20%	3.4	3.2	3.4	3.7	3.8	3.8	3.9	4.0	3.7	3.4	3.4	3.5
30%	3.5	3.2	3.6	3.8	3.9	3.9	4.0	4.0	3.8	3.4	3.4	3.6
40%	3.6	3.4	3.7	3.9	4.0	4.0	4.0	4.1	3.8	3.5	3.5	3.6
50%	3.6	3.4	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.6	3.6	3.7
60%	3.7	3.5	3.9	4.1	4.3	4.2	4.3	4.2	3.9	3.7	3.8	3.7
70%	3.7	3.5	4.0	4.3	4.5	4.4	4.4	4.3	4.0	3.8	3.8	3.8
80%	3.8	3.6	4.2	4.5	4.7	4.7	4.6	4.4	4.1	3.9	3.9	3.8
90%	3.9	3.7	4.4	4.9	5.3	5.5	5.2	4.8	4.6	4.1	4.0	4.0

Table 5A-C1.6.1-B. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Monthly Average Stage (Feet), Existing Condition

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.6	3.4	3.8	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.1	5.2	5.0	4.8	4.5	3.9	3.6	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.5	3.6
Below Normal Water Years	3.6	3.4	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.4	3.4	3.5
Dry Water Years	3.7	3.5	3.8	3.7	3.9	3.9	3.9	4.0	3.8	3.5	3.8	3.8
Critical Water Years	3.8	3.6	3.8	3.8	3.8	3.8	3.9	4.0	3.9	4.1	4.0	3.9

Table 5A-C1.6.1-C. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.3	3.5
20%	3.5	3.2	3.4	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.5	3.3	3.5	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	4.0	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.5	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.6	4.2	4.5	4.7	4.7	4.6	4.4	4.1	3.9	3.9	3.9
90%	3.9	3.8	4.3	4.9	5.2	5.5	5.3	4.8	4.6	4.1	4.0	4.0

Table 5A-C1.6.1-D. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.8	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.1	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.8	3.7	3.8	3.9	3.9	4.0	3.8	3.5	3.8	3.8
Critical Water Years	3.8	3.7	3.9	3.8	3.9	3.8	3.9	4.0	3.9	4.0	4.0	3.9

Table 5A-C1.6.1-E. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.6.1-F. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.6.2-A. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.4	3.5
20%	3.5	3.2	3.4	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.5	3.3	3.5	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	3.9	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.5	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.7	4.1	4.5	4.7	4.7	4.6	4.5	4.1	4.0	3.9	3.9
90%	3.9	3.8	4.3	4.9	5.2	5.6	5.3	4.8	4.6	4.1	4.0	4.0

Table 5A-C1.6.2-B. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.8	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.1	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.8	3.7	3.8	3.9	3.9	4.0	3.8	3.5	3.9	3.8
Critical Water Years	3.8	3.7	3.8	3.8	3.9	3.8	3.9	4.0	3.9	4.0	4.0	3.9

Table 5A-C1.6.2-C. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.6.2-D. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.6.3-A. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.4	3.5
20%	3.5	3.2	3.4	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.5	3.3	3.6	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	3.9	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.5	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.7	4.2	4.5	4.7	4.7	4.6	4.5	4.1	4.0	3.9	3.9
90%	3.9	3.8	4.3	4.9	5.2	5.6	5.3	4.8	4.6	4.1	4.0	3.9

Table 5A-C1.6.3-B. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Monthly Average Stage (Feet), Alternative 1/3 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.9	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.2	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.8	3.7	3.8	3.9	3.9	4.0	3.8	3.6	3.9	3.8
Critical Water Years	3.8	3.7	3.8	3.8	3.8	3.8	3.9	4.0	3.9	4.1	4.0	3.9

Table 5A-C1.6.3-C. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.6.3-D. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.6.4-A. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.4	3.5
20%	3.5	3.2	3.5	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.5	3.3	3.6	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	3.9	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.6	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.7	4.2	4.5	4.7	4.6	4.6	4.5	4.1	4.0	3.9	3.9
90%	3.9	3.8	4.4	4.9	5.2	5.6	5.3	4.8	4.6	4.1	4.0	3.9

Table 5A-C1.6.4-B. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Monthly Average Stage (Feet), Alternative 5 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.9	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.1	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.8	3.7	3.8	3.9	3.9	4.0	3.8	3.6	3.9	3.8
Critical Water Years	3.8	3.7	3.8	3.8	3.8	3.8	3.9	4.0	3.9	4.1	4.0	3.9

Table 5A-C1.6.4-C. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.6.4-D. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.6.5-A. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.4	3.5
20%	3.5	3.2	3.5	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.6	3.3	3.6	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	3.9	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.0	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.6	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.7	4.2	4.5	4.7	4.6	4.6	4.5	4.1	4.0	3.9	3.9
90%	3.9	3.8	4.3	4.9	5.3	5.6	5.3	4.8	4.6	4.1	4.0	3.9

Table 5A-C1.6.5-B. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.9	4.2	4.4	4.4	4.4	4.3	4.1	3.8	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.2	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.1	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.7	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.9	3.7	3.8	3.9	3.9	4.0	3.8	3.6	3.8	3.8
Critical Water Years	3.8	3.7	3.8	3.8	3.8	3.8	3.9	4.0	3.9	4.1	4.0	3.9

Table 5A-C1.6.5-C. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location (CHGRL009), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
30%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
50%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

1 **Table 5A-C1.6.5-D. Grant Line Canal (near Grant Line Canal Barrier) Mean Monthly Stage Location**
2 **(CHGRL009), Difference in Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing**
3 **Conditions**

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

4

C.1.7 Middle River near Howard Road Bridge

Figure 5A-C1.7.1-A. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Probability of Exceedance for Existing Conditions

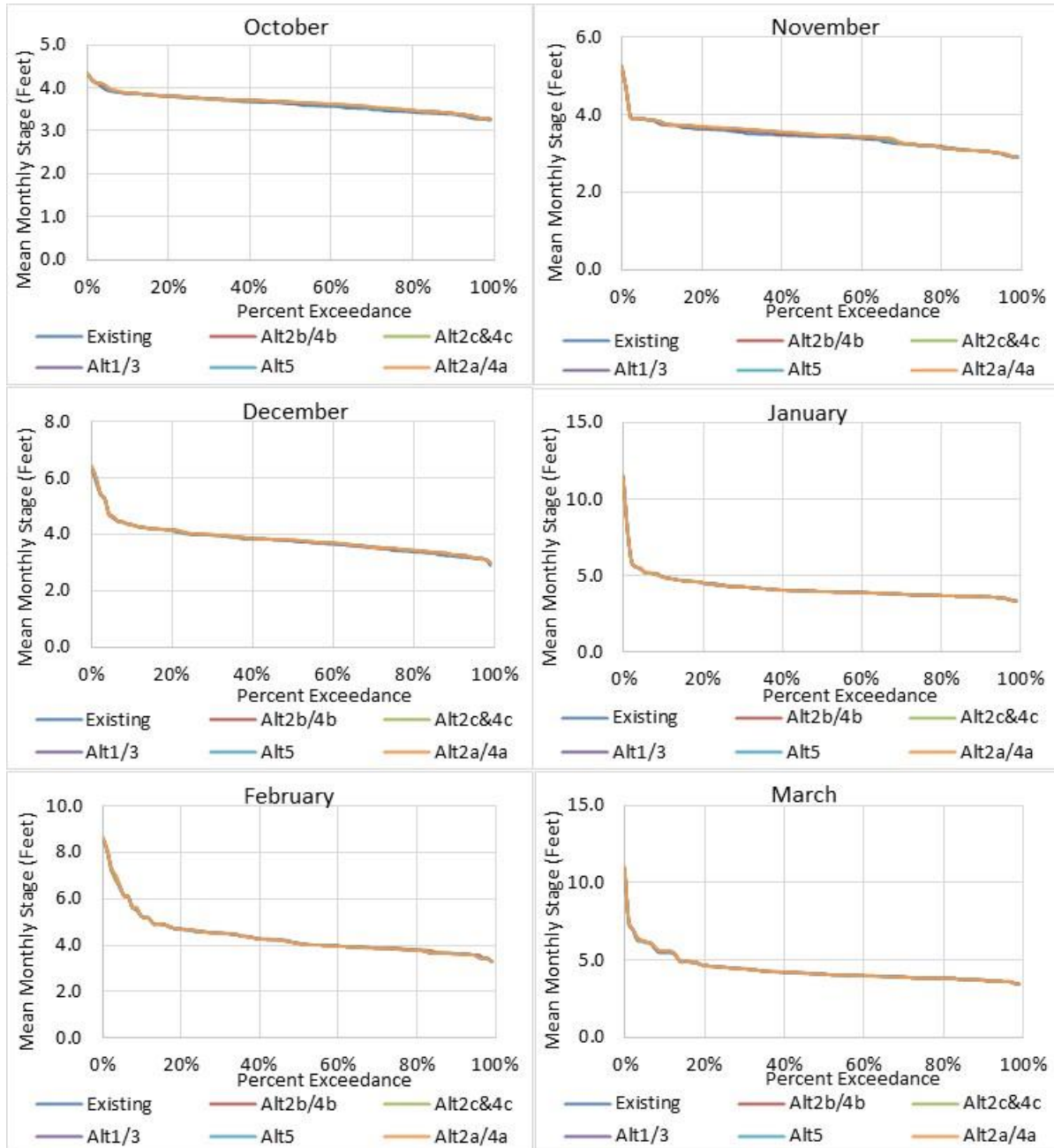


Figure 5A-C1.7.1-B. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Probability of Exceedance for Existing Conditions

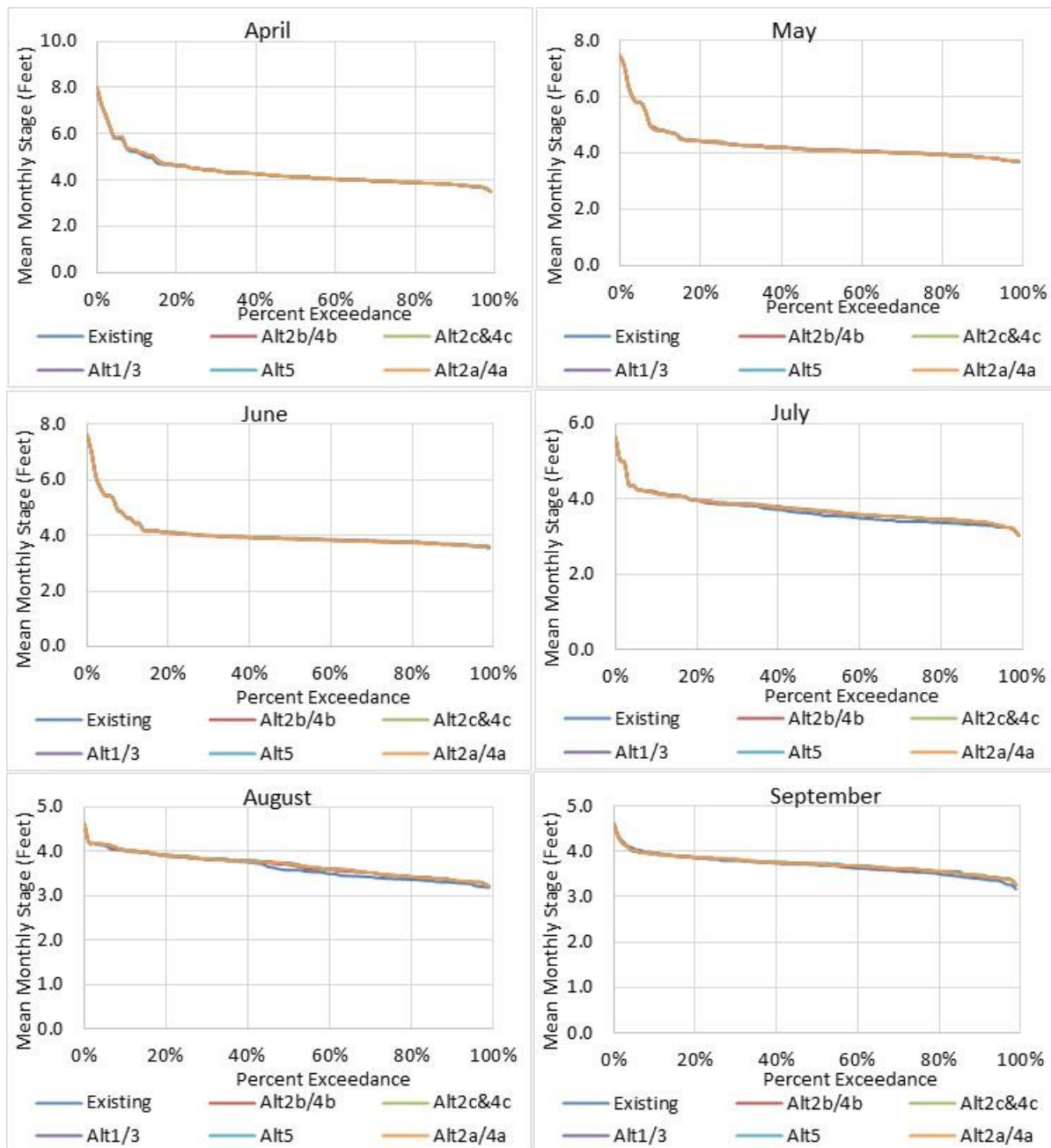


Table 5A-C1.7.1-A. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Exceedance Probabilities for Monthly Average Stage (Feet), Existing Condition

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.2	3.6	3.6	3.7	3.8	3.9	3.7	3.3	3.3	3.4
20%	3.4	3.2	3.4	3.7	3.8	3.8	3.9	4.0	3.7	3.4	3.4	3.5
30%	3.5	3.2	3.6	3.8	3.9	3.9	4.0	4.0	3.8	3.4	3.4	3.6
40%	3.6	3.4	3.7	3.9	4.0	4.0	4.0	4.1	3.8	3.5	3.5	3.6
50%	3.6	3.4	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.6	3.6	3.7
60%	3.7	3.5	3.9	4.1	4.3	4.2	4.3	4.2	3.9	3.7	3.8	3.7
70%	3.7	3.5	4.0	4.3	4.5	4.4	4.4	4.3	4.0	3.8	3.8	3.8
80%	3.8	3.6	4.2	4.5	4.7	4.7	4.6	4.4	4.1	3.9	3.9	3.8
90%	3.9	3.7	4.4	4.9	5.3	5.5	5.2	4.8	4.6	4.1	4.0	4.0

Table 5A-C1.7.1-B. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Monthly Average Stage (Feet), Existing Condition

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.6	3.4	3.8	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.1	5.2	5.0	4.8	4.5	3.9	3.6	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.5	3.6
Below Normal Water Years	3.6	3.4	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.4	3.4	3.5
Dry Water Years	3.7	3.5	3.8	3.7	3.9	3.9	3.9	4.0	3.8	3.5	3.8	3.8
Critical Water Years	3.8	3.6	3.8	3.8	3.8	3.8	3.9	4.0	3.9	4.1	4.0	3.9

Table 5A-C1.7.1-C. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.3	3.5
20%	3.5	3.2	3.4	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.5	3.3	3.5	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	4.0	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.5	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.6	4.2	4.5	4.7	4.7	4.6	4.4	4.1	3.9	3.9	3.9
90%	3.9	3.8	4.3	4.9	5.2	5.5	5.3	4.8	4.6	4.1	4.0	4.0

Table 5A-C1.7.1-D. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Monthly Average Stage (Feet), Alternative 2b/4b (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.8	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.1	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.8	3.7	3.8	3.9	3.9	4.0	3.8	3.5	3.8	3.8
Critical Water Years	3.8	3.7	3.9	3.8	3.9	3.8	3.9	4.0	3.9	4.0	4.0	3.9

Table 5A-C1.7.1-E. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.7.1-F. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Monthly Average Stage (Feet), Alternative 2b/4b (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.7.2-A. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.4	3.5
20%	3.5	3.2	3.4	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.5	3.3	3.5	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	3.9	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.5	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.7	4.1	4.5	4.7	4.7	4.6	4.5	4.1	4.0	3.9	3.9
90%	3.9	3.8	4.3	4.9	5.2	5.6	5.3	4.8	4.6	4.1	4.0	4.0

Table 5A-C1.7.2-B. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Monthly Average Stage (Feet), Alternative 2c/4c (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.8	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.1	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.8	3.7	3.8	3.9	3.9	4.0	3.8	3.5	3.9	3.8
Critical Water Years	3.8	3.7	3.8	3.8	3.9	3.8	3.9	4.0	3.9	4.0	4.0	3.9

Table 5A-C1.7.2-C. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.7.2-D. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Monthly Average Stage (Feet), Alternative 2c/4c (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.7.3-A. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.4	3.5
20%	3.5	3.2	3.4	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.5	3.3	3.6	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	3.9	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.5	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.7	4.2	4.5	4.7	4.7	4.6	4.5	4.1	4.0	3.9	3.9
90%	3.9	3.8	4.3	4.9	5.2	5.6	5.3	4.8	4.6	4.1	4.0	3.9

Table 5A-C1.7.3-B. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Monthly Average Stage (Feet), Alternative 1/3 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.9	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.2	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.8	3.7	3.8	3.9	3.9	4.0	3.8	3.6	3.9	3.8
Critical Water Years	3.8	3.7	3.8	3.8	3.8	3.8	3.9	4.0	3.9	4.1	4.0	3.9

Table 5A-C1.7.3-C. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.7.3-D. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Monthly Average Stage (Feet), Alternative 1/3 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.7.4-A. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.4	3.5
20%	3.5	3.2	3.5	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.5	3.3	3.6	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	3.9	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.1	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.6	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.7	4.2	4.5	4.7	4.6	4.6	4.5	4.1	4.0	3.9	3.9
90%	3.9	3.8	4.4	4.9	5.2	5.6	5.3	4.8	4.6	4.1	4.0	3.9

Table 5A-C1.7.4-B. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Monthly Average Stage (Feet), Alternative 5 (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.9	4.2	4.4	4.4	4.4	4.3	4.1	3.7	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.1	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.2	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.6	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.8	3.7	3.8	3.9	3.9	4.0	3.8	3.6	3.9	3.8
Critical Water Years	3.8	3.7	3.8	3.8	3.8	3.8	3.9	4.0	3.9	4.1	4.0	3.9

Table 5A-C1.7.4-C. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
30%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
50%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.7.4-D. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Monthly Average Stage (Feet), Alternative 5 (2020) minus Existing Conditions

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5A-C1.7.5-A. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	3.4	3.1	3.3	3.6	3.6	3.7	3.8	3.9	3.7	3.4	3.4	3.5
20%	3.5	3.2	3.5	3.7	3.8	3.8	3.9	4.0	3.7	3.5	3.4	3.6
30%	3.6	3.3	3.6	3.8	3.9	3.9	4.0	4.0	3.8	3.5	3.5	3.6
40%	3.6	3.4	3.7	3.9	3.9	3.9	4.0	4.1	3.8	3.6	3.6	3.7
50%	3.7	3.5	3.8	3.9	4.1	4.0	4.1	4.1	3.9	3.7	3.7	3.7
60%	3.7	3.6	3.9	4.0	4.3	4.2	4.3	4.2	3.9	3.8	3.8	3.8
70%	3.7	3.6	4.0	4.2	4.5	4.4	4.4	4.3	4.0	3.9	3.8	3.8
80%	3.8	3.7	4.2	4.5	4.7	4.6	4.6	4.5	4.1	4.0	3.9	3.9
90%	3.9	3.8	4.3	4.9	5.3	5.6	5.3	4.8	4.6	4.1	4.0	3.9

Table 5A-C1.7.5-B. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Monthly Average Stage (Feet), Alternative 2a/4a (2020)

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	3.7	3.5	3.9	4.2	4.4	4.4	4.4	4.3	4.1	3.8	3.7	3.7
Wet Water Years	3.6	3.4	3.9	4.9	5.2	5.2	5.1	4.8	4.5	3.9	3.7	3.7
Above Normal Water Years	3.6	3.1	3.6	4.2	4.5	4.4	4.3	4.3	4.0	3.7	3.6	3.6
Below Normal Water Years	3.6	3.5	4.0	3.9	4.0	3.9	4.1	4.1	3.8	3.6	3.5	3.6
Dry Water Years	3.7	3.6	3.9	3.7	3.8	3.9	3.9	4.0	3.8	3.6	3.8	3.8
Critical Water Years	3.8	3.7	3.8	3.8	3.8	3.8	3.9	4.0	3.9	4.1	4.0	3.9

Table 5A-C1.7.5-C. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027), Difference in Exceedance Probabilities for Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions

Probability of Exceedance	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
10%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
20%	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
30%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
40%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
50%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
60%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
70%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80%	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90%	0.0	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0

1 **Table 5A-C1.7.5-D. Middle River (near Howard Road Bridge) Mean Monthly Stage Location (RMID027),**
2 **Difference in Monthly Average Stage (Feet), Alternative 2a/4a (2020) minus Existing Conditions**

Average	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Full Simulation Period	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Wet Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Above Normal Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0
Below Normal Water Years	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Dry Water Years	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Critical Water Years	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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