# Appendix A Summary Consequence Tables

Below are four consequence tables of results. The actual results are the same in each consequence table. The only difference is that the colour coding changes across the tables depending on which Scenario – A, B, C or D – is chosen as the reference case. The first table, with A as reference, is the one that was discussed during the stakeholder session in November.

The first column of the consequence tables lists the general location and objective of interest. The second column provides a basic summary of the performance measure definition. The third column "Direction" shows the direction of preferred change for each performance measure: ''H" means that more is preferred; "L" means that less is preferred. The "MSIC" column is the minimum amount by which any two alternatives must differ on a performance measure score before one alternative can be considered to perform significantly better than the other.

The final four columns in consequence tables present the results for the four NTS scenarios A, B, C and D. The table is colour-coded to help provide a quick guide to the relative performance of each scenario. In each of the four tables one of the four scenarios is selected to serve as the base case for comparison. For example in the first table Scenario A, which is intended to approximate operations assuming the "full utilization" of Non-Treaty Storage, serves as the base case and is shown in blue. The relative performance of the other three scenarios are colour-coded as "Better" (green), "Worse" (red) or "Not Significantly Different" (yellow) using the MSIC values as shown.

It is important to note that these summary consequence tables of performance measure results contain the mean (average) statistics. Please refer back to the PM Information Sheets in Appendix G for the full series of statistical results for each PM.

# Scenario A as Reference Case (blue).

**Relative performance of scenarios B, C and D displayed as "Better" (green) or "Worse" (red) using significance screening (MSIC values).**

| Objective | Attribute | Direction | Units | MSIC Type | MSIC Val | A (Full Utilization) | B (Moderate & Flex) | C (Low Utilization) | D (none) |
|---|---|---|---|---|---|---|---|---|---|
| Kin - Navigation | Total site-days / year (Downie) | H | days | A | 7 | 343 | 346 | 350 | 360 |
| Kin - Rec - Water - Canoe | 2404 < days < 2475 | H | days | A | 7 | 150 | 151 | 155 | 168 |
| Kin - Rec - Water - Columbia | 2375 < days < 2475 | H | days | A | 7 | 174 | 175 | 176 | 181 |
| Kin - Rec - Shore - Columbia | 2444 < days < 2473 | L | days | A | 7 | 50 | 44 | 45 | 46 |
| Kin - Heritage | Weighted days - Erosion | L | days | A | 7 | 205 | 206 | 213 | 233 |
| Kin - Heritage | Weighted days - Inundation | H | days | A | 7 | 507 | 522 | 543 | 601 |
| Kin - Vegetation | Flooded Weeks (early; 749-751m) | L | weeks | R | 10% | 2.20 | 2.30 | 2.40 | 3.10 |
| Kin - Dust | SqKm - Days (April) | L | sqkm-days | R | 10% | 1,500 | 1,490 | 1,410 | 1,300 |
| Kin - Erosion | days >= 2470 | L | days | A | 7 | 52 | 61 | 64 | 76 |
| Kin - Pelagic Productivity | MMm3-Days | H | MMm3-days | R | 10% | 0.84 | 0.84 | 0.85 | 0.86 |
| Kin - Entrainment | Proportion Juvenile Kokanee | L | total ppn | R | 10% | 0.30 | 0.30 | 0.30 | 0.29 |
| Rev - Entrainment | Proportion Juvenile Kokanee | L | total ppn | R | 10% | 0.90 | 0.89 | 0.89 | 0.88 |
| Rev Reservoir - Stability | 0.25m over 1-day rolling | L | rolling days | R | 10% | 210 | 227 | 212 | 204 |
| Mid-Col - Rec - Boat Access | days > 1435 | H | days | A | 7 | 36 | 30 | 36 | 71 |
| Mid-Col - Rec - Shore Access | days < 1435 | H | days | A | 7 | 146 | 151 | 145 | 109 |
| Mid-Col - Wetlands | Flooded Weeks - Montana - Fall | L | weeks | R | 10% | 5.00 | 5.10 | 5.60 | 14.20 |
| Mid-Col - Wetlands | Flooded Depth - Montana - Fall | L | metres | R | 10% | 1.40 | 1.20 | 1.40 | 2.10 |
| Mid-Col - Aquatic - River Length | kilometres - October | H | km | R | 10% | 24.90 | 24.10 | 24.10 | 16.60 |
| Mid-Col - Sturgeon - WUA | % time > 200 m2 | H | percent | R | 10% | 76% | 75% | 77% | 83% |
| Arr - Fish - Pelagic | MMm3-Days | H | MMm3-days | R | 10% | 1.78 | 1.78 | 1.79 | 1.82 |
| Arr - Rec | Weighted days | H | days | A | 7 | 221 | 220 | 229 | 257 |
| Arr - Heritage | Weighted days - Erosion | L | days | A | 7 | 212 | 209 | 216 | 262 |
| Arr - Heritage | Weighted days - Inundation | H | days | A | 7 | 129 | 115 | 136 | 221 |
| Arr - Dust | days < 1410 | L | days | A | 7 | 43 | 42 | 43 | 28 |
| Arr - Vegetation | Flooded Weeks (latter; 436-437) | L | weeks | R | 10% | 3.50 | 3.70 | 3.90 | 10.70 |
| Arr - Wildlife | % Useabe Habitat - Nesting | H | percent | R | 3% | 6% | 12% | 6% | 1% |
| Arr - Wildlife | % Useabe Habitat - Fall Migration | H | percent | R | 4% | 30% | 28% | 24% | 1% |
| Arr - Navigation | Weighted-Days | H | days | A | 7 | 221 | 220 | 229 | 257 |
| LCR - Boat Access | 40000 < days < 103000 | H | days | A | 7 | 61 | 60 | 61 | 64 |
| LCR - Shoreline Access | 60000 < days < 99000 | H | days | A | 7 | 87 | 87 | 87 | 92 |
| LCR - Flooding at Genelle | days > 165 kcfs | L | days | A | n/a | 0 | 0 | 0 | 0 |
| LCR - Whitefish | % Egg Loss | L | percent | R | 10% | 22% | 22% | 22% | 16% |
| LCR - TGP | days > 115% | L | days | R | 10% | 36 | 31 | 38 | 82 |
| Power Generation | Incremental Cost | L | $M/yr | A | 0.5 | $ 0.00 | $ 0.10 | $ 0.60 | $ 11.80 |
| Greenhouse Gas | Incremental Carbon Benefit | H | Ktonnes/yr | R | 10% | 171 | 153 | 176 | 0 |

# Scenario B as Reference Case (blue).

**Relative performance of scenarios A, C and D displayed as "Better" (green) or "Worse" (red) using significance screening (MSIC values).**

| Objective | Attribute | Direction | Units | MSIC Type | MSIC Val | A (Full Utilization) | B (Moderate & Flex) | C (Low Utilization) | D (none) |
|---|---|---|---|---|---|---|---|---|---|
| Kin - Navigation | Total site-days / year (Downie) | H | days | A | 7 | 343 | 346 | 350 | 360 |
| Kin - Rec - Water - Canoe | 2404 < days < 2475 | H | days | A | 7 | 150 | 151 | 155 | 168 |
| Kin - Rec - Water - Columbia | 2375 < days < 2475 | H | days | A | 7 | 174 | 175 | 176 | 181 |
| Kin - Rec - Shore - Columbia | 2444 < days < 2473 | L | days | A | 7 | 50 | 44 | 45 | 46 |
| Kin - Heritage | Weighted days - Erosion | L | days | A | 7 | 205 | 206 | 213 | 233 |
| Kin - Heritage | Weighted days - Inundation | H | days | A | 7 | 507 | 522 | 543 | 601 |
| Kin - Vegetation | Flooded Weeks (early; 749-751m) | L | weeks | R | 10% | 2.20 | 2.30 | 2.40 | 3.10 |
| Kin - Dust | SqKm - Days (April) | L | sqkm-days | R | 10% | 1,500 | 1,490 | 1,410 | 1,300 |
| Kin - Erosion | days >= 2470 | L | days | A | 7 | 52 | 61 | 64 | 76 |
| Kin - Pelagic Productivity | MMm3-Days | H | MMm3-days | R | 10% | 0.84 | 0.84 | 0.85 | 0.86 |
| Kin - Entrainment | Proportion Juvenile Kokanee | L | total ppn | R | 10% | 0.30 | 0.30 | 0.30 | 0.29 |
| Rev - Entrainment | Proportion Juvenile Kokanee | L | total ppn | R | 10% | 0.90 | 0.89 | 0.89 | 0.88 |
| Rev Reservoir - Stability | 0.25m over 1-day rolling | L | rolling days | R | 10% | 210 | 227 | 212 | 204 |
| Mid-Col - Rec - Boat Access | days > 1435 | H | days | A | 7 | 36 | 30 | 36 | 71 |
| Mid-Col - Rec - Shore Access | days < 1435 | H | days | A | 7 | 146 | 151 | 145 | 109 |
| Mid-Col - Wetlands | Flooded Weeks - Montana - Fall | L | weeks | R | 10% | 5.00 | 5.10 | 5.60 | 14.20 |
| Mid-Col - Wetlands | Flooded Depth - Montana - Fall | L | metres | R | 10% | 1.40 | 1.20 | 1.40 | 2.10 |
| Mid-Col - Aquatic - River Length | kilometres - October | H | km | R | 10% | 24.90 | 24.10 | 24.10 | 16.60 |
| Mid-Col - Sturgeon - WUA | % time > 200 m2 | H | percent | R | 10% | 76% | 75% | 77% | 83% |
| Arr - Fish - Pelagic | MMm3-Days | H | MMm3-days | R | 10% | 1.78 | 1.78 | 1.79 | 1.82 |
| Arr - Rec | Weighted days | H | days | A | 7 | 221 | 220 | 229 | 257 |
| Arr - Heritage | Weighted days - Erosion | L | days | A | 7 | 212 | 209 | 216 | 262 |
| Arr - Heritage | Weighted days - Inundation | H | days | A | 7 | 129 | 115 | 136 | 221 |
| Arr - Dust | days < 1410 | L | days | A | 7 | 43 | 42 | 43 | 28 |
| Arr - Vegetation | Flooded Weeks (latter; 436-437) | L | weeks | R | 10% | 3.50 | 3.70 | 3.90 | 10.70 |
| Arr - Wildlife | % Useabe Habitat - Nesting | H | percent | R | 3% | 6% | 12% | 6% | 1% |
| Arr - Wildlife | % Useabe Habitat - Fall Migration | H | percent | R | 4% | 30% | 28% | 24% | 1% |
| Arr - Navigation | Weighted-Days | H | days | A | 7 | 221 | 220 | 229 | 257 |
| LCR - Boat Access | 40000 < days < 103000 | H | days | A | 7 | 61 | 60 | 61 | 64 |
| LCR - Shoreline Access | 60000 < days < 99000 | H | days | A | 7 | 87 | 87 | 87 | 92 |
| LCR - Flooding at Genelle | days > 165 kcfs | L | days | A | n/a | 0 | 0 | 0 | 0 |
| LCR - Whitefish | % Egg Loss | L | percent | R | 10% | 22% | 22% | 22% | 16% |
| LCR - TGP | days > 115% | L | days | R | 10% | 36 | 31 | 38 | 82 |
| Power Generation | Incremental Cost | L | $M/yr | A | 0.5 | $ 0.00 | $ 0.10 | $ 0.60 | $ 11.80 |
| Greenhouse Gas | Incremental Carbon Benefit | H | Ktonnes/yr | R | 10% | 171 | 153 | 176 | 0 |

# Scenario C as Reference Case (blue).

**Relative performance of scenarios A, B, and D displayed as "Better" (green) or "Worse" (red) using significance screening (MSIC values).**

| Objective | Attribute | Direction | Units | MSIC Type | MSIC Val | A (Full Utilization) | B (Moderate & Flex) | C (Low Utilization) | D (none) |
|---|---|---|---|---|---|---|---|---|---|
| Kin - Navigation | Total site-days / year (Downie) | H | days | A | 7 | 343 | 346 | 350 | 360 |
| Kin - Rec - Water - Canoe | 2404 < days < 2475 | H | days | A | 7 | 150 | 151 | 155 | 168 |
| Kin - Rec - Water - Columbia | 2375 < days < 2475 | H | days | A | 7 | 174 | 175 | 176 | 181 |
| Kin - Rec - Shore - Columbia | 2444 < days < 2473 | L | days | A | 7 | 50 | 44 | 45 | 46 |
| Kin - Heritage | Weighted days - Erosion | L | days | A | 7 | 205 | 206 | 213 | 233 |
| Kin - Heritage | Weighted days - Inundation | H | days | A | 7 | 507 | 522 | 543 | 601 |
| Kin - Vegetation | Flooded Weeks (early; 749-751m) | L | weeks | R | 10% | 2.20 | 2.30 | 2.40 | 3.10 |
| Kin - Dust | SqKm - Days (April) | L | sqkm-days | R | 10% | 1,500 | 1,490 | 1,410 | 1,300 |
| Kin - Erosion | days >= 2470 | L | days | A | 7 | 52 | 61 | 64 | 76 |
| Kin - Pelagic Productivity | MMm3-Days | H | MMm3-days | R | 10% | 0.84 | 0.84 | 0.85 | 0.86 |
| Kin - Entrainment | Proportion Juvenile Kokanee | L | total ppn | R | 10% | 0.30 | 0.30 | 0.30 | 0.29 |
| Rev - Entrainment | Proportion Juvenile Kokanee | L | total ppn | R | 10% | 0.90 | 0.89 | 0.89 | 0.88 |
| Rev Reservoir - Stability | 0.25m over 1-day rolling | L | rolling days | R | 10% | 210 | 227 | 212 | 204 |
| Mid-Col - Rec - Boat Access | days > 1435 | H | days | A | 7 | 36 | 30 | 36 | 71 |
| Mid-Col - Rec - Shore Access | days < 1435 | H | days | A | 7 | 146 | 151 | 145 | 109 |
| Mid-Col - Wetlands | Flooded Weeks - Montana - Fall | L | weeks | R | 10% | 5.00 | 5.10 | 5.60 | 14.20 |
| Mid-Col - Wetlands | Flooded Depth - Montana - Fall | L | metres | R | 10% | 1.40 | 1.20 | 1.40 | 2.10 |
| Mid-Col - Aquatic - River Length | kilometres - October | H | km | R | 10% | 24.90 | 24.10 | 24.10 | 16.60 |
| Mid-Col - Sturgeon - WUA | % time > 200 m2 | H | percent | R | 10% | 76% | 75% | 77% | 83% |
| Arr - Fish - Pelagic | MMm3-Days | H | MMm3-days | R | 10% | 1.78 | 1.78 | 1.79 | 1.82 |
| Arr - Rec | Weighted days | H | days | A | 7 | 221 | 220 | 229 | 257 |
| Arr - Heritage | Weighted days - Erosion | L | days | A | 7 | 212 | 209 | 216 | 262 |
| Arr - Heritage | Weighted days - Inundation | H | days | A | 7 | 129 | 115 | 136 | 221 |
| Arr - Dust | days < 1410 | L | days | A | 7 | 43 | 42 | 43 | 28 |
| Arr - Vegetation | Flooded Weeks (latter; 436-437) | L | weeks | R | 10% | 3.50 | 3.70 | 3.90 | 10.70 |
| Arr - Wildlife | % Useabe Habitat - Nesting | H | percent | R | 3% | 6% | 12% | 6% | 1% |
| Arr - Wildlife | % Useabe Habitat - Fall Migration | H | percent | R | 4% | 30% | 28% | 24% | 1% |
| Arr - Navigation | Weighted-Days | H | days | A | 7 | 221 | 220 | 229 | 257 |
| LCR - Boat Access | 40000 < days < 103000 | H | days | A | 7 | 61 | 60 | 61 | 64 |
| LCR - Shoreline Access | 60000 < days < 99000 | H | days | A | 7 | 87 | 87 | 87 | 92 |
| LCR - Flooding at Genelle | days > 165 kcfs | L | days | A | n/a | 0 | 0 | 0 | 0 |
| LCR - Whitefish | % Egg Loss | L | percent | R | 10% | 22% | 22% | 22% | 16% |
| LCR - TGP | days > 115% | L | days | R | 10% | 36 | 31 | 38 | 82 |
| Power Generation | Incremental Cost | L | $M/yr | A | 0.5 | $ 0.00 | $ 0.10 | $ 0.60 | $ 11.80 |
| Greenhouse Gas | Incremental Carbon Benefit | H | Ktonnes/yr | R | 10% | 171 | 153 | 176 | 0 |

# Scenario D as Reference Case (blue).

**Relative performance of scenarios A, B, and C displayed as "Better" (green) or "Worse" (red) using significance screening (MSIC values).**

| Objective | Attribute | Direction | Units | MSIC Type | MSIC Val | A (Full Utilization) | B (Moderate & Flex) | C (Low Utilization) | D (none) |
|---|---|---|---|---|---|---|---|---|---|
| Kin - Navigation | Total site-days / year (Downie) | H | days | A | 7 | 343 | 346 | 350 | 360 |
| Kin - Rec - Water - Canoe | 2404 < days < 2475 | H | days | A | 7 | 150 | 151 | 155 | 168 |
| Kin - Rec - Water - Columbia | 2375 < days < 2475 | H | days | A | 7 | 174 | 175 | 176 | 181 |
| Kin - Rec - Shore - Columbia | 2444 < days < 2473 | L | days | A | 7 | 50 | 44 | 45 | 46 |
| Kin - Heritage | Weighted days - Erosion | L | days | A | 7 | 205 | 206 | 213 | 233 |
| Kin - Heritage | Weighted days - Inundation | H | days | A | 7 | 507 | 522 | 543 | 601 |
| Kin - Vegetation | Flooded Weeks (early; 749-751m) | L | weeks | R | 10% | 2.20 | 2.30 | 2.40 | 3.10 |
| Kin - Dust | SqKm - Days (April) | L | sqkm-days | R | 10% | 1,500 | 1,490 | 1,410 | 1,300 |
| Kin - Erosion | days >= 2470 | L | days | A | 7 | 52 | 61 | 64 | 76 |
| Kin - Pelagic Productivity | MMm3-Days | H | MMm3-days | R | 10% | 0.84 | 0.84 | 0.85 | 0.86 |
| Kin - Entrainment | Proportion Juvenile Kokanee | L | total ppn | R | 10% | 0.30 | 0.30 | 0.30 | 0.29 |
| Rev - Entrainment | Proportion Juvenile Kokanee | L | total ppn | R | 10% | 0.90 | 0.89 | 0.89 | 0.88 |
| Rev Reservoir - Stability | 0.25m over 1-day rolling | L | rolling days | R | 10% | 210 | 227 | 212 | 204 |
| Mid-Col - Rec - Boat Access | days > 1435 | H | days | A | 7 | 36 | 30 | 36 | 71 |
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| Mid-Col - Wetlands | Flooded Weeks - Montana - Fall | L | weeks | R | 10% | 5.00 | 5.10 | 5.60 | 14.20 |
| Mid-Col - Wetlands | Flooded Depth - Montana - Fall | L | metres | R | 10% | 1.40 | 1.20 | 1.40 | 2.10 |
| Mid-Col - Aquatic - River Length | kilometres - October | H | km | R | 10% | 24.90 | 24.10 | 24.10 | 16.60 |
| Mid-Col - Sturgeon - WUA | % time > 200 m2 | H | percent | R | 10% | 76% | 75% | 77% | 83% |
| Arr - Fish - Pelagic | MMm3-Days | H | MMm3-days | R | 10% | 1.78 | 1.78 | 1.79 | 1.82 |
| Arr - Rec | Weighted days | H | days | A | 7 | 221 | 220 | 229 | 257 |
| Arr - Heritage | Weighted days - Erosion | L | days | A | 7 | 212 | 209 | 216 | 262 |
| Arr - Heritage | Weighted days - Inundation | H | days | A | 7 | 129 | 115 | 136 | 221 |
| Arr - Dust | days < 1410 | L | days | A | 7 | 43 | 42 | 43 | 28 |
| Arr - Vegetation | Flooded Weeks (latter; 436-437) | L | weeks | R | 10% | 3.50 | 3.70 | 3.90 | 10.70 |
| Arr - Wildlife | % Useabe Habitat - Nesting | H | percent | R | 3% | 6% | 12% | 6% | 1% |
| Arr - Wildlife | % Useabe Habitat - Fall Migration | H | percent | R | 4% | 30% | 28% | 24% | 1% |
| Arr - Navigation | Weighted-Days | H | days | A | 7 | 221 | 220 | 229 | 257 |
| LCR - Boat Access | 40000 < days < 103000 | H | days | A | 7 | 61 | 60 | 61 | 64 |
| LCR - Shoreline Access | 60000 < days < 99000 | H | days | A | 7 | 87 | 87 | 87 | 92 |
| LCR - Flooding at Genelle | days > 165 kcfs | L | days | A | n/a | 0 | 0 | 0 | 0 |
| LCR - Whitefish | % Egg Loss | L | percent | R | 10% | 22% | 22% | 22% | 16% |
| LCR - TGP | days > 115% | L | days | R | 10% | 36 | 31 | 38 | 82 |
| Power Generation | Incremental Cost | L | $M/yr | A | 0.5 | $ 0.00 | $ 0.10 | $ 0.60 | $ 11.80 |
| Greenhouse Gas | Incremental Carbon Benefit | H | Ktonnes/yr | R | 10% | 171 | 153 | 176 | 0 |