CMPT Water PT Grading Schemes

Mean cfu/100mL or MPN/100mL or cfu/mL	Table 1: CMPT Grading Scale for PT Drinking Water Samples (including HPC)								
	0	15	25	30	50	60	80	100	200
Scores (see Table 2)	NG = 3	1 - 29 = 3	10 - 42 = 3	16 - 50 = 3	32 - 97 = 3	46 - 119 = 3	52 - 142 = 3	58 – 165 = 3	155 – 248 = 3
	Growth = 0	30 - 59 = 2	1 - 9, 43 - 59 = 2	1 – 15 = 2 51 - 80 = 2	10 - 31, >97 = 2	16 - 45, >119 = 2	25 - 51, >142 = 2	34 - 57, >165 = 2	65 – 154 = 2 ≥ 249 = 2
	0 -<2 = 3	>59 = 1	>59 = 1	>81 = 1	1 - 9 = 1	1 - 15 = 1	1 – 24 = 1	1 - 33 = 1	1 - 64 = 1
		NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0

Table 2: PT Drinking Water Samples Assessment Criteria	
Score	**Assessment Criteria**
3	Result is considered accurate (see Table 1)
2	Result is acceptable with minor error (see Table 1)
1	Major error (see Table 1) False Positive: a sample containing only total coliforms is reported as containing thermotolerant coliforms or *E.coli*
0	Very major error with potential water safety consequences, i - A sample containing thermotolerant bacteria is reported as containing only total coliforms and no *E.coli*, or ii - A sample containing *E.coli* is reported as containing only total coliforms iii - False Negative: a report of no growth when bacteria are present.

Please Note:

- Grading is assessed against the Group Means of Total Coliforms (TC), Thermotolerant Coliforms (ThC) and *E.coli* (EC).
- TC and ThC or EC are a combined score out of 3 for drinking water samples: #1, 2, 3, 4, **Total =12**.
- Additional scores for *E. coli* testing are out of a score of 3 each for drinking water samples #1, 2, 3, 4, **Total = 12**.
- When only one component (ie TC, ThC or EC) of a water sample is reported, a qualitative score is given, eg "correct/incorrect".
- When no definitive MF count is reported, ie count is preceded by > or <, a qualitative score is given, eg "correct/incorrect".
- When no definitive MPN count is reported, ie count is preceded by > or < and the group mean is outside of the MPN reported count, a qualitative comment, incorrect, is given. For example, if the group mean is 20 MPN/100 ml and the report is >23 MPN/100 ml, the report would be graded as incorrect. Similarly, if the group mean is >23 MPN/100 ml, and the reported MPN count is <23, the report would be graded as incorrect, also.
- Recreational water samples for *Enterococci, Pseudomonas* or fresh water beach *E.* coli testing is out of a **total of 3 per sample**.
- Laboratories are graded depending on the scope of testing that is performed.
- Scores are calculated based on 95% confidence limits

	Table 3: CMPT Grading Scale for PT Recreational Samples: Membrane Filtration											
Mean cfu/100ml	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**200**	**300**	**350**	**400**
Scores	1 – 49 = 3	14 - 59 = 3	28 - 69 = 3	38 – 80 = 3	44 – 99 = 3	55 - 103 = 3	62-118 = 3	69 - 134 = 3	155 - 248 = 3	253 - 345 = 3	299-406 = 3	335-467 = 3
		1 - 13 = 2	1 - 28 = 2	1-37 = 2	1- 43 = 2	1 - 54 = 2	1 - 61 = 2	1-68 = 2	1 – 154 = 2	1 - 252 = 2	1 - 298 = 2	1 – 334 = 2
	≥ 50 = 2	≥ 60 = 2	≥ 70 = 2	≥ 81 = 2	≥ 100 = 2	≥ 104 = 2	≥ 119 = 2	≥ 135 = 2	≥ 249 = 2	≥ 346 = 2	≥ 406 = 2	≥ 468 = 2
	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0

Table 4: CMPT Grading Scale for PT Recreational Samples: Colilert Quantitray, Enterolert, Pseudoalert, MPN											
Mean MPN/100ml	**30**	**40**	**50**	**60**	**70**	**80**	**100**	**200**	**300**	**400**	**500**
Scores	1 – 89 = 3	10 - 119 = 3	15 - 150 = 3	22 – 150 = 3	22 -170 = 3	22 -220 = 3	32 - 350 = 3	70 – 710 = 3	100 – 1100 = 3	150 - 1550 = 3	200 - 1999 = 3
		1 - 9 = 2	1 - 14 = 2	1 - 21 = 2	1 - 21 = 2	1 - 21 = 2	1 - 31 = 2	1 – 69 = 2	1 – 99 = 2	1 – 149 = 2	1 – 199 = 2
	≥ 90 = 2	≥ 120 = 2	≥ 151 = 2	≥ 151 = 2	≥ 171 = 2	≥ 221 = 2	≥ 351 = 2	≥ 711 = 2	≥ 1101 = 2	≥ 1551 = 2	≥ 2000 = 2
	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0	NG = 0