

### Chapter 3 – Osmolality Data from Urine Flow Study

SALINITY	ROUTE	BLOCK	FISH	TIME	RUN	URINE	PLASMA	WATER
0	IM	1	1	72	1	108	287	112
0	IM	1	1	72	2	109	285	110
0	IM	1	2	72	1	109	279	95
0	IM	1	2	72	2	106	286	98
0	IM	1	3	72	1	62	312	87
0	IM	1	3	72	2	59	311	88
0	IM	1	4	72	1	44	323	91
0	IM	1	4	72	2	44	340	95
0	IM	1	5	72	1	94	266	101
0	IM	1	5	72	2	94	268	103
0	IM	1	6	72	1	32	279	99
0	IM	1	6	72	2	31	283	100
15	IM	1	1	72	1	272	314	261
15	IM	1	1	72	2	279	318	263
15	IM	1	2	72	1	324	331	349
15	IM	1	2	72	2	324	322	310
15	IM	1	3	72	1	300	319	280
15	IM	1	3	72	2	297	330	329
15	IM	1	4	72	1	203	333	319
15	IM	1	4	72	2	192	334	338
15	IM	1	5	72	1	287	322	373
15	IM	1	5	72	2	285	321	380
15	IM	1	6	72	1	143	337	369
15	IM	1	6	72	2	141	335	346
32	IM	1	1	72	1	364	357	770
32	IM	1	1	72	2	362	362	776
32	IM	1	2	72	1	269	331	742
32	IM	1	2	72	2	268	335	759
32	IM	1	3	72	1	315	339	931
32	IM	1	3	72	2	312	338	888
32	IM	1	4	72	1	378	324	743
32	IM	1	4	72	2	382	330	771
32	IM	1	5	72	1	363	341	670
32	IM	1	5	72	2	364	346	661
32	IM	1	6	72	1	342	326	828
32	IM	1	6	72	2	336	330	780
0	IM	2	1	72	1	31	321	114
0	IM	2	1	72	2	33	314	112
0	IM	2	2	72	1	54	323	90
0	IM	2	2	72	2	54	321	90
0	IM	2	3	72	1	69	312	96
0	IM	2	3	72	2	67	311	98
0	IM	2	4	72	1	44	323	91
0	IM	2	4	72	2	46	322	94
0	IM	2	5	72	1	81	268	94
0	IM	2	5	72	2	81	266	89
0	IM	2	6	72	1	41	298	78
0	IM	2	6	72	2	45	302	80
15	IM	2	1	72	1	272	340	581
15	IM	2	1	72	2	279	351	581

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15	IM	2	2	72	1	165	317	497
15	IM	2	2	72	2	166	314	497
15	IM	2	3	72	1	300	318	521
15	IM	2	3	72	2	304	319	521
15	IM	2	4	72	1	156	319	646
15	IM	2	4	72	2	153	321	651
15	IM	2	5	72	1	285	334	690
15	IM	2	5	72	2		326	691
15	IM	2	6	72	1	97	318	459
15	IM	2	6	72	2	98	326	455
32	IM	2	1	72	1	293	334	1157
32	IM	2	1	72	2	282	332	1160
32	IM	2	2	72	1	314	343	1063
32	IM	2	2	72	2	316	342	1065
32	IM	2	3	72	1	307	328	1207
32	IM	2	3	72	2	308	324	1208
32	IM	2	4	72	1	337	329	1014
32	IM	2	4	72	2	361	324	1007
32	IM	2	5	72	1	334	355	969
32	IM	2	5	72	2	334	355	973
32	IM	2	6	72	1	334	350	1065
32	IM	2	6	72	2	328	343	1065
0	PO	1	1	72	1	35	298	73
0	PO	1	1	72	2	23	295	74
0	PO	1	2	72	1		268	39
0	PO	1	2	72	2		274	38
0	PO	1	3	72	1	34	255	78
0	PO	1	3	72	2	30	256	75
0	PO	1	4	72	1	82	288	33
0	PO	1	4	72	2	78	288	34
0	PO	1	5	72	1	62	266	45
0	PO	1	5	72	2	60	269	45
0	PO	1	6	72	1		233	34
0	PO	1	6	72	2		225	34
15	PO	1	1	72	1		317	589
15	PO	1	1	72	2		313	594
15	PO	1	2	72	1		376	497
15	PO	1	2	72	2		372	500
15	PO	1	3	72	1	147	323	523
15	PO	1	3	72	2	142	301	523
15	PO	1	4	72	1		307	610
15	PO	1	4	72	2		309	609
15	PO	1	5	72	1	225	314	551
15	PO	1	5	72	2	227	314	552
15	PO	1	6	72	1		320	551
15	PO	1	6	72	2		324	551
32	PO	1	1	72	1	271	313	1039
32	PO	1	1	72	2	263	316	1041
32	PO	1	2	72	1		324	1169
32	PO	1	2	72	2		323	1161
32	PO	1	3	72	1		300	1037

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32	PO	1	3	72	2		298	1046
32	PO	1	4	72	1	395	371	983
32	PO	1	4	72	2	399	320	985
32	PO	1	5	72	1	276	304	1118
32	PO	1	5	72	2	280	306	1122
32	PO	1	6	72	1		321	1058
32	PO	1	6	72	2		321	1054
0	PO	2	1	72	1	23	283	66
0	PO	2	1	72	2	22	269	66
0	PO	2	2	72	1	81	248	54
0	PO	2	2	72	2	84	245	50
0	PO	2	3	72	1	78	294	66
0	PO	2	3	72	2	75	296	66
0	PO	2	4	72	1	129	285	30
0	PO	2	4	72	2	126	284	31
0	PO	2	5	72	1	120	298	44
0	PO	2	5	72	2	122	282	45
0	PO	2	6	72	1	209	232	31
0	PO	2	6	72	2	206	237	30
15	PO	2	1	72	1	198	327	583
15	PO	2	1	72	2	198	323	578
15	PO	2	2	72	1		326	574
15	PO	2	2	72	2		326	571
15	PO	2	3	72	1	343	334	538
15	PO	2	3	72	2	352	335	544
15	PO	2	4	72	1	253	331	557
15	PO	2	4	72	2	256	318	565
15	PO	2	5	72	1			639
15	PO	2	5	72	2			656
15	PO	2	6	72	1	276	337	535
15	PO	2	6	72	2	282	329	537
32	PO	2	1	72	1	430	324	1176
32	PO	2	1	72	2	431	324	1179
32	PO	2	2	72	1		341	1120
32	PO	2	2	72	2		345	1132
32	PO	2	3	72	1	358	326	1183
32	PO	2	3	72	2	356	323	1209
32	PO	2	4	72	1	307	331	1121
32	PO	2	4	72	2	305	332	1119
32	PO	2	5	72	1	314	320	1256
32	PO	2	5	72	2	318	321	1224
32	PO	2	6	72	1		326	1087
32	PO	2	6	72	2		342	1074

**Chapter 3** – Urine Characteristics following IM OTC Administration (50 mg/kg)

PPT	Fish	Block	HOURS	Urine Vol	Urine Color	Urine SPG	Urine OTC	Plasma OTC	FISH WEIGHT	WATER SPG	UrineFlow Rate	OTCmlU	OTCFlow
0	1	1	72	0.5	3	1.001	56.39	18.62	0.325	1	0.064	112.8	879.7
0	2	1	72	0.5	3	1.002	4.571	5.166	0.279	1	0.075	9.142	61.21
0	3	1	72	0.5	3	1	17.05	16.31	0.301	1	0.069	34.09	246.3
0	4	1	72						0.31	1			
0	5	1	72	0.5	3	1	13.96	17.3	0.224	1	0.093	27.92	150.1
0	6	1	72	0.25	3	1	10.21	15.99	0.27	1	0.039	40.84	264.6
15	1	1	72	0.2	4	1.005	65.35	13.05	0.27	1.006	0.031	326.7	2117
15	2	1	72	1.5	4	1.011	88.87	13.31	0.295	1.01	0.212	59.25	419.5
15	3	1	72	0.2	2	1.005	61.75	7.489	0.265	1.008	0.031	308.7	1964
15	4	1	72	0.5	4	1.007	106.4	7.388	0.267	1.009	0.078	212.8	1363
15	5	1	72	0.1	3	1.005		9.778	0.297	1.007	0.014		
15	6	1	72	0.2	3	1.004	70.45	13.89	0.32	1.008	0.026	352.3	2705
32	1	1	72	0.5	4	1.014	194.1	12.05	0.248	1.017	0.084	388.2	2311
32	2	1	72	0.75	4	1.013	207.6	11.14	0.273	1.016	0.114	276.8	1814
32	3	1	72	0.25	4	1.011	235.2	11.49	0.308	1.02	0.034	940.8	6955
32	4	1	72	0.5	4	1.011	105.7	9.877	0.338	1.017	0.062	211.4	1715
32	5	1	72	0.4	2	1.01	65.87	10.6	0.236	1.017	0.071	164.7	932.7
32	6	1	72	0.75	4	1.012	152.1	19.43	0.28	1.017	0.112	202.8	1363
0	1	2	72	0.5	3	1.001	47.9	25.13	0.269	1	0.077	95.8	618.5
0	2	2	72	0.5	1	1.001	11.75	9.337	0.254	1	0.082	23.49	143.2
0	3	2	72	5	1	1.001	3.961	3.201	0.338	1	0.616	0.792	6.426
0	4	2	72	0.5	1	1	9.387	11.18	0.352	1	0.059	18.77	158.6
0	5	2	72	0.5		1.001	5.063	4.467	0.197	1	0.106	10.13	47.88
0	6	2	72	0.75	1	1	5.425	3.482	0.35	1	0.089	7.233	60.76
15	1	2	72	0.75	4	1.009		6.484	0.25	1.007	0.125		
15	2	2	72	0.5	4	1.008	353.5	18.11	0.252	1.008	0.083	707	4276
15	3	2	72	0.25	2	1.009	246.8	48.57	0.19	1.008	0.055	987.1	4501
15	4	2	72	0.25	2	1.01	43.3	23.1	0.272	1.009	0.038	173.2	1131
15	5	2	72	0.25		1.01	9.358	4.124	0.245	1.007	0.043	37.43	220.1
15	6	2	72	3.25	4	1.008	44.43	20.48	0.34	1.008	0.398	13.67	111.5
32	1	2	72	1	4	1.019	22.47	13.18	0.192	1.017	0.217	22.47	103.5
32	2	2	72	0.5	4	1.018	90.96	13.85	0.242	1.018	0.086	181.9	1057
32	3	2	72	0.5	1	1.019	17.49	9.233	0.275	1.02	0.076	34.97	230.8
32	4	2	72	0.75	4	1.016	114.8	7.791	0.352	1.019	0.089	153	1293
32	5	2	72	0.25	2	1.016	44.66	5.842	0.265	1.02	0.039	178.7	1136
32	6	2	72	0.25		1.018	115.4	9.007	0.262	1.017	0.04	461.6	2903
0	1	1	48	1.5	2	1.002	42.98		0.325		0.192	28.65	223.5

**Chapter 3** – Urine Characteristics following IM OTC Administration (50 mg/kg)

0	2	1	48	1.25	3	1.001	5.731		0.279		0.187	4.585	30.7
0	3	1	48	0.6	3	1	21.86		0.301		0.083	36.44	263.2
0	4	1	48	2	3	1.001	5.734		0.31		0.269	2.867	21.33
0	5	1	48	0.75	3	1	16.82		0.224		0.14	22.42	120.6
0	6	1	48	1	3	1	18.37		0.27		0.154	18.37	119
15	1	1	48	0.05	3	1.006			0.27		0.008		
15	2	1	48	0.5	4	1.016	106.3		0.295		0.071	212.6	1505
15	3	1	48	0.2	3	1.003	11.35		0.265		0.031	56.76	361
15	4	1	48	0.75	4	1.006	106.5		0.267		0.117	141.9	909.5
15	5	1	48	1.5	4	1.005	130.1		0.297		0.21	86.74	618.3
15	6	1	48	0.5	3	1.003	57.6		0.32		0.065	115.2	884.7
32	1	1	48	0.75	4	1.012	149.2		0.248		0.126	198.9	1184
32	2	1	48	0.5	4	1.011	125.3		0.273		0.076	250.5	1641
32	3	1	48	1	4	1.011	145		0.308		0.135	145	1072
32	4	1	48	0.2	3	1.011	93.5		0.338		0.025	467.5	3793
32	5	1	48	0.25	2	1.01	73.12		0.236		0.044	292.5	1657
32	6	1	48	1.5	4	1.01	61.95		0.28		0.223	41.3	277.5
0	1	2	48	0.5	3	1	56.26		0.269		0.077	112.5	726.4
0	2	2	48	0.25	1	1	6.7		0.254		0.041	26.8	163.4
0	3	2	48	6	1	1	3.331		0.338		0.74	0.555	4.504
0	4	2	48	2	1	1	12.08		0.352		0.237	6.04	51.02
0	5	2	48	0.25		1.004	7.119		0.197		0.053	28.48	134.6
0	6	2	48	1	1	1	3.512		0.35		0.119	3.512	29.5
15	1	2	48	0.25	3	1.007	90.58		0.25		0.042	362.3	2174
15	2	2	48	0.2	4	1.005			0.252		0.033		
15	3	2	48	0.1	3	1.005	164.9		0.19		0.022	1649	7521
15	4	2	48	0.05		1.007			0.272		0.008		
15	5	2	48	0.2		1.02	12.58		0.245		0.034	62.89	369.8
15	6	2	48	0.5	3	1.003	78.4		0.34		0.061	156.8	1279
32	1	2	48	1	3	1.011	11.68		0.192		0.217	11.68	53.8
32	2	2	48	0.5	2	1.009	83.29		0.242		0.086	166.6	967.5
32	3	2	48	0.75	1	1.012	8.953		0.275		0.114	11.94	78.79
32	4	2	48	0.75	4	1.01	100.2		0.352		0.089	133.5	1128
32	5	2	48	0.5	3	1.008	46.16		0.265		0.079	92.33	587.2
32	6	2	48	1	4	1.01	120.2		0.262		0.159	120.2	755.9
0	1	1	24						0.325				
0	2	1	24	1.75		1.001	4.066		0.279		0.261	2.323	15.56
0	3	1	24	3		1	20.38		0.301		0.415	6.793	49.08
0	4	1	24	3		1.001	5.521		0.31		0.403	1.84	13.69

**Chapter 3** – Urine Characteristics following IM OTC Administration (50 mg/kg)

0	5	1	24	0.5		1	8.561		0.224		0.093	17.12	92.05
0	6	1	24	0.8		1.001	13.53		0.27		0.123	16.91	109.6
15	1	1	24	0.1		1.006	37.79		0.27		0.015	377.9	2448
15	2	1	24						0.295				
15	3	1	24	1		1.003	6.77		0.265		0.157	6.77	43.06
15	4	1	24						0.267				
15	5	1	24	0.75		1.006	111.8		0.297		0.105	149	1062
15	6	1	24	0.1		1.004	22.41		0.32		0.013	224.1	1721
32	1	1	24	0.5	4	1.012	106.3		0.248		0.084	212.6	1265
32	2	1	24	0.1	4	1.012	9.137		0.273		0.015	91.37	598.7
32	3	1	24	0.2	4	1.012	159.1		0.308		0.027	795.5	5880
32	4	1	24	0.25	4	1.01	53.89		0.338		0.031	215.6	1749
32	5	1	24	0.5	4	1.01	61.61		0.236		0.088	123.2	697.9
32	6	1	24	1	4	1.01	40.04		0.28		0.149	40.04	269
0	1	2	24	1	3	1	68.84		0.269		0.155	68.84	444.4
0	2	2	24	0.75	1	1	11.33		0.254		0.123	15.11	92.11
0	3	2	24	2.5	1	1	4.136		0.338		0.308	1.654	13.42
0	4	2	24	2	3	1	18.55		0.352		0.237	9.276	78.36
0	5	2	24	0.25		1.003	6.912		0.197		0.053	27.65	130.7
0	6	2	24	1.5	1	1	4.444		0.35		0.179	2.963	24.89
15	1	2	24	1	2	1.006	43.43		0.25		0.167	43.43	260.6
15	2	2	24	0.5	4	1.005	150.6		0.252		0.083	301.2	1821
15	3	2	24	0.5	3	1.003	157.2		0.19		0.11	314.4	1434
15	4	2	24	0.5	4	1.005	86.33		0.272		0.077	172.7	1127
15	5	2	24	0.25		1.02	8.172		0.245		0.043	32.69	192.2
15	6	2	24	3	3	1.002	20.53		0.34		0.368	6.843	55.84
32	1	2	24	1	3	1.011	6.174		0.192		0.217	6.174	28.45
32	2	2	24	0.05	3	1.01			0.242		0.009		
32	3	2	24	1	3	1.012	6.806		0.275		0.152	6.806	44.92
32	4	2	24	0.5	4	1.012	56.73		0.352		0.059	113.5	958.5
32	5	2	24	1	2	1.007	20.15		0.265		0.157	20.15	128.2
32	6	2	24	1	4	1.011	66.65		0.262		0.159	66.65	419.1
0	1	1	0						0.325				
0	2	1	0			1			0.279				
0	3	1	0			1			0.301				
0	4	1	0			1			0.31				
0	5	1	0			1			0.224				
0	6	1	0			1			0.27				
15	1	1	0			1.011			0.27				

**Chapter 3** – Urine Characteristics following IM OTC Administration (50 mg/kg)

15	2	1	0			1.008			0.295				
15	3	1	0			1.006			0.265				
15	4	1	0			1.012			0.267				
15	5	1	0			1.005			0.297				
15	6	1	0			1.004			0.32				
32	1	1	0			1.012			0.248				
32	2	1	0			1.012			0.273				
32	3	1	0			1.013			0.308				
32	4	1	0			1.01			0.338				
32	5	1	0			1.01			0.236				
32	6	1	0			1.007			0.28				
0	1	2	0	4	1	1			0.269				
0	2	2	0	0.25	1	1			0.254				
0	3	2	0	6.5	1	1			0.338				
0	4	2	0	2	1	1			0.352				
0	5	2	0	1	1	1			0.197				
0	6	2	0	3.5	1	1			0.35				
15	1	2	0	1	4	1.009			0.25				
15	2	2	0	2.5	4	1.003			0.252				
15	3	2	0	0.6	3	1.004			0.19				
15	4	2	0	1.25	3	1.005			0.272				
15	5	2	0						0.245				
15	6	2	0	4	3	1.003			0.34				
32	1	2	0	1.25	1	1.011			0.192				
32	2	2	0	1.25	4	1.011			0.242				
32	3	2	0	5	1	1.012			0.275				
32	4	2	0	3.5	4	1.012			0.352				
32	5	2	0	1.75	4	1.011			0.265				
32	6	2	0	1.75	4	1.011			0.262				

**Chapter 3** – Urine Characteristics following PO OTC Administration (50 mg/kg)

PPT	Fish	Block	HOURS	Urine Vol	Urine Color	Urine SPG	Urine OTC	Plasma OTC	FISH WEIGHT	WATER SPG	Urine FlowRate	OTCmIU	OTCFlow
0	1	1	72	2.5	1	1	0.421	0.64	0.381	1	0.27340332	0.1684	1.5398496
0	2	1	72	0.1	1	1.001		0.13	0.303	1	0.01375138	0	0
0	3	1	72	1.5	1	1	0.064	0.084	0.263	1	0.23764259	0.04266667	0.269312
0	4	1	72	1.5	1	1.001	1.058	0.062	0.267	1	0.2340824	0.70533333	4.519776
0	5	1	72	1	1	1	0.559	0.889	0.25	1	0.16666667	0.559	3.354
0	6	1	72	0.5	2	1.004	0.35	0.868	0.189	1	0.11022928	0.7	3.1752
15	1	1	72	0.25	3	1.011	15.773	0.503	0.29	1.01	0.03591954	63.092	439.12032
15	2	1	72	0.1	3	1.024	1.264	0.472	0.337	1.009	0.012364	12.64	102.23232
15	3	1	72	0.75	2	1.004	3.375	0.737	0.34	1.009	0.09191176	4.5	36.72
15	4	1	72	0.01	2	1.012	9.404	0.429	0.261	1.01	0.00159642	940.4	5890.6656
15	5	1	72	0.75	4	1.01	11.517	0.355	0.349	1.01	0.08954155	15.356	128.621856
15	6	1	72					0.426	0.3	1.01			
32	1	1	72	0.5	4	1.01	5.02	0.328	0.303	1.017	0.06875688	10.04	73.01088
32	2	1	72	0.25	2	1.009	5.807	0.141	0.304	1.018	0.03426535	23.228	169.471488
32	3	1	72	0.05	2	1.011		0.029	0.34	1.017	0.00612745	0	0
32	4	1	72	0.5	2	1.018	0.6	0.216	0.325	1.016	0.06410256	1.2	9.36
32	5	1	72	0.75	3	1.005	0.419	0.075	0.207	1.019	0.15096618	0.55866667	2.775456
32	6	1	72	0.25	4	1.012	5.969	0.2	0.297	1.017	0.03507295	23.876	170.188128
0	1	2	72	2	1	1	0.952	0.403	0.304	1	0.27412281	0.476	3.472896
0	2	2	72	0.5		1.002	1.519	0.329	0.27	1	0.07716049	3.038	19.68624
0	3	2	72	2.5	1	1.002	1.378	0.389	0.276	1	0.37741546	0.5512	3.6511488
0	4	2	72	0.25		1.002	1.531	0.518	0.317	1	0.03286015	6.124	46.591392
0	5	2	72	0.5		1.002	1.132	0.254	0.314	1	0.0663482	2.264	17.061504
0	6	2	72	6.5	3	1.01	9.711	0.489	0.307	1	0.88219327	1.494	11.007792
15	1	2	72	0.5	4	1.007		0.453	0.266	1.009	0.0783208		
15	2	2	72	0.05	4	1.009	0.861	0.387	0.254	1.01	0.0082021	17.22	104.97312
15	3	2	72	0.25		1.015	9.596	0.618	0.279	1.009	0.03733572	38.384	257.019264
15	4	2	72	0.5	4	1.01		0.211	0.254	1.009	0.082021		
15	5	2	72						0.279	1.011			
15	6	2	72	0.5	4	1.015	21.63	0.289	0.259	1.009	0.08043758	43.26	268.90416
32	1	2	72	0.5	4	1.02		6.298	0.187	1.018	0.1114082		
32	2	2	72	0.05		1.021		0.701	0.191	1.017	0.0109075		
32	3	2	72	0.2	4	1.009	1.894	0.096	0.277	1.019	0.03008424	9.47	62.95656
32	4	2	72	1.25	4	1.01	0.886	0.13	0.3	1.018	0.17361111	0.7088	5.10336
32	5	2	72	0.25	4	1.012	773.84	0.523	0.248	1.02	0.04200269	3095.36	18423.5827
32	6	2	72					0.495	0.313	1.017			
0	1	1	48	4	1	1	0.303		0.381		0.43744532	0.07575	0.692658



**Chapter 3** – Urine Characteristics following PO OTC Administration (50 mg/kg)

0	2	1	48	0.75	1	1	0.058		0.303		0.10313531	0.07733333	0.562368
0	3	1	48	0.75	1	1	0.033		0.263		0.11882129	0.044	0.277728
0	4	1	48	1	1	1	0		0.267		0.15605493	0	0
0	5	1	48	0.5	1	1	0.762		0.25		0.08333333	1.524	9.144
0	6	1	48	1	2	1.003	0.471		0.189		0.22045855	0.471	2.136456
15	1	1	48	0.05	2		4.667		0.29		0.00718391	93.34	649.6464
15	2	1	48						0.337				
15	3	1	48	1	4	1.007	6.403		0.34		0.12254902	6.403	52.24848
15	4	1	48						0.261				
15	5	1	48	2	4	1.007	7.423		0.349		0.23877746	3.7115	31.087524
15	6	1	48	0.05	4		15.557		0.3		0.00694444	311.14	2240.208
32	1	1	48	0.25	2	1.008	3.352		0.303		0.03437844	13.408	97.502976
32	2	1	48	0.75	4	1.011	5.959		0.304		0.10279605	7.94533333	57.969152
32	3	1	48	0.25	2	1.011	3.217		0.34		0.03063725	12.868	105.00288
32	4	1	48	0.25		1.019	2.411		0.325		0.03205128	9.644	75.2232
32	5	1	48	0.75	3	1.007	1.244		0.207		0.15096618	1.65866667	8.240256
32	6	1	48	0.75	4	1.012	4.216		0.297		0.10521886	5.62133333	40.068864
0	1	2	48	2	1	1	0.35		0.304		0.27412281	0.175	1.2768
0	2	2	48	1		1.001	0.631		0.27		0.15432099	0.631	4.08888
0	3	2	48	1.25	1	1.001	0.41		0.276		0.18870773	0.328	2.172672
0	4	2	48	0.2	1	1.001	0.746		0.317		0.02628812	3.73	28.37784
0	5	2	48	1	1	1.001	0.762		0.314		0.13269639	0.762	5.742432
0	6	2	48	0.5	4	1.004	1.335		0.307		0.06786102	2.67	19.67256
15	1	2	48	0.5	3	1.006	3.161		0.266		0.0783208	6.322	40.359648
15	2	2	48	0.2	4	1.007	8.377		0.254		0.0328084	41.885	255.33096
15	3	2	48	1		1.014	0.879		0.279		0.14934289	0.879	5.885784
15	4	2	48	0.75	4	1.005	1.901		0.254		0.1230315	2.53466667	15.451328
15	5	2	48						0.279				
15	6	2	48	0.75		1.011	11.682		0.259		0.12065637	15.576	96.820416
32	1	2	48	0.1		1.014			0.187		0.02228164		
32	2	2	48	0.1		1.019			0.191		0.02181501		
32	3	2	48	0.1	1	1.009			0.277		0.01504212		
32	4	2	48	1.5	3	1.01	0.944		0.3		0.20833333	0.62933333	4.5312
32	5	2	48	1.5	3	1.012	766.638		0.248		0.25201613	511.092	3042.01958
32	6	2	48	0.1		1.012			0.313		0.01331203		
0	1	1	24	2	1	1	0.349		0.381		0.21872266	0.1745	1.595628
0	2	1	24	0.75	1	1	0.024		0.303		0.10313531	0.032	0.232704
0	3	1	24	0.25	1	1	0		0.263		0.0396071	0	0
0	4	1	24	3.5	1	1	0		0.267		0.54619226	0	0

**Chapter 3** – Urine Characteristics following PO OTC Administration (50 mg/kg)

0	5	1	24	1.5	1	1	0.672		0.25		0.25	0.448	2.688
0	6	1	24	5	1	1	0.45		0.189		1.10229277	0.09	0.40824
15	1	1	24	0.75	2	1.004	9.211		0.29		0.10775862	12.2813333	85.47808
15	2	1	24	0.05	1				0.337		0.006182	0	0
15	3	1	24	0.25	3	1.006	1.793		0.34		0.03063725	7.172	58.52352
15	4	1	24	0.25	4	1.012	7.075		0.261		0.0399106	28.3	177.2712
15	5	1	24	4	4	1.007	2.837		0.349		0.47755492	0.70925	5.940678
15	6	1	24						0.3		0		
32	1	1	24	2	2	1.006	2.013		0.303		0.2750275	1.0065	7.319268
32	2	1	24	0.5	2	1.011	5.015		0.304		0.0685307	10.03	73.17888
32	3	1	24						0.34				
32	4	1	24	0.1	2		4.105		0.325		0.01282051	41.05	320.19
32	5	1	24	0.25	3	1.007	6.198		0.207		0.05032206	24.792	123.166656
32	6	1	24	0.75	4	1.012	3.349		0.297		0.10521886	4.46533333	31.828896
0	1	2	24	0.6	1	1	0.576		0.304		0.08223684	0.96	7.00416
0	2	2	24	3	3	1.001	1.191		0.27		0.46296296	0.397	2.57256
0	3	2	24	3.5	3	1.001	0.873		0.276		0.52838164	0.24942857	1.65221486
0	4	2	24	0.75	3	1.001	1.196		0.317		0.09858044	1.59466667	12.132224
0	5	2	24	0.5	1	1.001	1.372		0.314		0.0663482	2.744	20.678784
0	6	2	24	2	3	1.001	1.745		0.307		0.27144408	0.8725	6.42858
15	1	2	24	1.5	2	1.005	3.552		0.266		0.23496241	2.368	15.117312
15	2	2	24	0.25	3	1.004	3.065		0.254		0.0410105	12.26	74.73696
15	3	2	24	0.1		1.02	1.932		0.279		0.01493429	19.32	129.36672
15	4	2	24	1.5	3	1.003	1.497		0.254		0.24606299	0.998	6.083808
15	5	2	24						0.279				
15	6	2	24	0.5		1.008	10.099		0.259		0.08043758	20.198	125.550768
32	1	2	24						0.187				
32	2	2	24	0.1	3	1.018	575.88		0.191		0.02181501	5758.8	26398.3392
32	3	2	24	0.2	3	1.008	2.007		0.277		0.03008424	10.035	66.71268
32	4	2	24	1.5	3	1.008	4.36		0.3		0.20833333	2.90666667	20.928
32	5	2	24	0.2	4	1.014	1766.156		0.248		0.03360215	8830.78	52560.8026
32	6	2	24	1		1.009	8.153		0.313		0.13312034	8.153	61.245336
0	1	1	0	1	3	1			0.381				
0	2	1	0	1.25	3	1			0.303				
0	3	1	0						0.263				
0	4	1	0	1.25	3	1			0.267				
0	5	1	0	1.25	2	1			0.25				
0	6	1	0	0.5	1	1			0.189				
15	1	1	0	1.25	4	1.008			0.29				

**Chapter 3** – Urine Characteristics following PO OTC Administration (50 mg/kg)

15	2	1	0	0.25	3	1.009			0.337				
15	3	1	0	1.5	3	1.005			0.34				
15	4	1	0	0.75	4	1.011			0.261				
15	5	1	0	4.5	3	1.006			0.349				
15	6	1	0	0.75	4	1.014			0.3				
32	1	1	0	2	4	1.008			0.303				
32	2	1	0	0.75	4	1.011			0.304				
32	3	1	0	2	4	1.011			0.34				
32	4	1	0						0.325				
32	5	1	0	0.25	3	1.012			0.207				
32	6	1	0	1	4	1.012			0.297				
0	1	2	0	2	3	1			304				
0	2	2	0	0.5	1	1.001			270				
0	3	2	0	0.25	1	1			276				
0	4	2	0	0.75	1	1			317				
0	5	2	0	0.5	1	1			314				
0	6	2	0	1	3	1			307				
15	1	2	0	0.75	4	1.002			266				
15	2	2	0						254				
15	3	2	0	0.25		1.019			279				
15	4	2	0	0.25	4	1.004			254				
15	5	2	0	0.25	4	1.014			279				
15	6	2	0	0.25		1.006			259				
32	1	2	0	0.4	3	1.013			187				
32	2	2	0	0.2					191				
32	3	2	0						277				
32	4	2	0	0.75	4	1.011			300				
32	5	2	0	0.2	1	1.013			248				
32	6	2	0	0.25	4	1.015			313				

### Chapter 3 – Plasma Protein Binding

Route	Salinity	PB	Plasma Protein (mg/dl)	Plasma OTC Fil	Plasma OTC unfil	F/U	Means	SD	OSMOLALITY
PO	0	22.8224917	4.61	2.8	3.628	0.7717751	24.3	1.9770986	311
PO	0	26.5687583	4.83	2.75	3.745	0.7343124			307
PO	0	23.5997825	4.78	2.81	3.678	0.7640022			
PO	15	34.5558015	3.98	2.07	3.163	0.654442	33.2	1.9278515	309
PO	15	33.9735099	3.68	1.994	3.02	0.6602649			305
PO	15	30.9638168	3.73	2.156	3.123	0.6903618			
PO	32	53.5564854	4.53	1.554	3.346	0.4644351	54.6	1.9182653	342
PO	32	56.8088837	4.58	1.478	3.422	0.4319112			332
PO	32	53.420398	4.81	1.498	3.216	0.465796			
IM	0	31.091802	4.36	1.824	2.647	0.689082	34.2	2.8328559	309
IM	0	36.5936556	4.31	1.679	2.648	0.6340634			308
IM	0	35.0142334	4.41	1.598	2.459	0.6498577			
IM	15	34.0697365	4.28	4.954	7.514	0.6593026	32.1	2.6378011	323
IM	15	29.1384318	4.33	5.124	7.231	0.7086157			327
IM	15	33.2275552	4.41	5.05	7.563	0.6677244			
IM	32	61.1917199	4.93	2.006	5.169	0.3880828	60.4	1.5615558	326
IM	32	58.5848875	4.86	2.154	5.201	0.4141511			326
IM	32	61.3778298	4.88	1.979	5.124	0.3862217			

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

<b>Time</b>	<b>Group</b>	<b>Area Count</b>	<b>Size Area</b>	<b>Size (units)</b>	<b>Size (um)</b>	<b>(Size)2</b>
0	A1	1	1	3	11.4	129.96
0	A1	1	2	3	11.4	129.96
0	A1	1	3	3	11.4	129.96
0	A1	1	4	3	11.4	129.96
0	A1	1	5	2	7.6	57.76
0	A1	1	6	3	11.4	129.96
0	A1	1	7	3	11.4	129.96
0	A1	1	8	2	7.6	57.76
0	A1	1	9	3	11.4	129.96
0	A1	1	10	2	7.6	57.76
0	A1	2	1	2	7.6	57.76
0	A1	2	2	2	7.6	57.76
0	A1	2	3	3	11.4	129.96
0	A1	2	4	2	7.6	57.76
0	A1	2	5	3	11.4	129.96
0	A1	2	6	2	7.6	57.76
0	A1	2	7	2	7.6	57.76
0	A1	2	8	2	7.6	57.76
0	A1	2	9	2	7.6	57.76
0	A1	2	10	2	7.6	57.76
0	A1	3	1	2	7.6	57.76
0	A1	3	2	2	7.6	57.76
0	A1	3	3	2	7.6	57.76
0	A1	3	4	2	7.6	57.76
0	A1	3	5	3	11.4	129.96
0	A1	3	6	3	11.4	129.96
0	A1	3	7	2	7.6	57.76
0	A1	3	8	3	11.4	129.96
0	A1	3	9	2	7.6	57.76
0	A1	3	10	3	11.4	129.96
0	A1	4	1	2	7.6	57.76
0	A1	4	2	2	7.6	57.76
0	A1	4	3	2	7.6	57.76
0	A1	4	4	2	7.6	57.76
0	A1	4	5	2	7.6	57.76
0	A1	4	6	3	11.4	129.96
0	A1	4	7	3	11.4	129.96
0	A1	4	8	2	7.6	57.76
0	A1	4	9	2	7.6	57.76
0	A1	4	10	3	11.4	129.96
0	A1	5	1	1	3.8	14.44
0	A1	5	2	2	7.6	57.76
0	A1	5	3	2	7.6	57.76
0	A1	5	4	2	7.6	57.76
0	A1	5	5	2	7.6	57.76
0	A1	5	6	2	7.6	57.76
0	A1	5	7	2	7.6	57.76
0	A1	5	8	2	7.6	57.76
0	A1	5	9	3	11.4	129.96
0	A1	5	10	2	7.6	57.76
0	A2	1	1	2	7.6	57.76
0	A2	1	2	2	7.6	57.76
0	A2	1	3	2	7.6	57.76
0	A2	1	4	2	7.6	57.76
0	A2	1	5	2	7.6	57.76
0	A2	1	6	2	7.6	57.76
0	A2	1	7	2	7.6	57.76
0	A2	1	8	1	3.8	14.44
0	A2	1	9	2	7.6	57.76
0	A2	1	10	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	A2	2	1	2	7.6	57.76
0	A2	2	2	2	7.6	57.76
0	A2	2	3	2	7.6	57.76
0	A2	2	4	2	7.6	57.76
0	A2	2	5	3	11.4	129.96
0	A2	2	6	2	7.6	57.76
0	A2	2	7	2	7.6	57.76
0	A2	2	8	2	7.6	57.76
0	A2	2	9	2	7.6	57.76
0	A2	2	10	3	11.4	129.96
0	A2	3	1	2	7.6	57.76
0	A2	3	2	3	11.4	129.96
0	A2	3	3	2	7.6	57.76
0	A2	3	4	3	11.4	129.96
0	A2	3	5	2	7.6	57.76
0	A2	3	6	2	7.6	57.76
0	A2	3	7	3	11.4	129.96
0	A2	3	8	2	7.6	57.76
0	A2	3	9	3	11.4	129.96
0	A2	3	10	2	7.6	57.76
0	A2	4	1	1	3.8	14.44
0	A2	4	2	2	7.6	57.76
0	A2	4	3	3	11.4	129.96
0	A2	4	4	2	7.6	57.76
0	A2	4	5	2	7.6	57.76
0	A2	4	6	1	3.8	14.44
0	A2	4	7	2	7.6	57.76
0	A2	4	8	2	7.6	57.76
0	A2	4	9	2	7.6	57.76
0	A2	4	10	2	7.6	57.76
0	A2	5	1	3	11.4	129.96
0	A2	5	2	3	11.4	129.96
0	A2	5	3	3	11.4	129.96
0	A2	5	4	2	7.6	57.76
0	A2	5	5	2	7.6	57.76
0	A2	5	6	3	11.4	129.96
0	A2	5	7	3	11.4	129.96
0	A2	5	8	2	7.6	57.76
0	A2	5	9	2	7.6	57.76
0	A2	5	10	2	7.6	57.76
0	A3	1	1	3	11.4	129.96
0	A3	1	2	3	11.4	129.96
0	A3	1	3	2	7.6	57.76
0	A3	1	4	2	7.6	57.76
0	A3	1	5	2	7.6	57.76
0	A3	1	6	1	3.8	14.44
0	A3	1	7	2	7.6	57.76
0	A3	1	8	2	7.6	57.76
0	A3	2	1	3	11.4	129.96
0	A3	2	2	2	7.6	57.76
0	A3	2	3	3	11.4	129.96
0	A3	2	4	3	11.4	129.96
0	A3	2	5	2	7.6	57.76
0	A3	2	6	2	7.6	57.76
0	A3	2	7	2	7.6	57.76
0	A3	2	8	3	11.4	129.96
0	A3	2	9	2	7.6	57.76
0	A3	2	10	2	7.6	57.76
0	A3	3	1	3	11.4	129.96
0	A3	3	2	3	11.4	129.96
0	A3	3	3	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	A3	3	4	2	7.6	57.76
0	A3	3	5	2	7.6	57.76
0	A3	3	6	3	11.4	129.96
0	A3	3	7	2	7.6	57.76
0	A3	3	8	3	11.4	129.96
0	A3	3	9	2	7.6	57.76
0	A3	3	10	2	7.6	57.76
0	A3	4	1	3	11.4	129.96
0	A3	4	2	3	11.4	129.96
0	A3	4	3	2	7.6	57.76
0	A3	4	4	3	11.4	129.96
0	A3	4	5	3	11.4	129.96
0	A3	4	6	3	11.4	129.96
0	A3	4	7	2	7.6	57.76
0	A3	4	8	2	7.6	57.76
0	A3	4	9	1	3.8	14.44
0	A3	4	10	2	7.6	57.76
0	A3	5	1	3	11.4	129.96
0	A3	5	2	2	7.6	57.76
0	A3	5	3	2	7.6	57.76
0	A3	5	4	3	11.4	129.96
0	A3	5	5	3	11.4	129.96
0	A3	5	6	2	7.6	57.76
0	A3	5	7	3	11.4	129.96
0	A3	5	8	2	7.6	57.76
0	A3	5	9	2	7.6	57.76
0	A3	5	10	2	7.6	57.76
0	A4	1	1	3	11.4	129.96
0	A4	1	2	2	7.6	57.76
0	A4	1	3	2	7.6	57.76
0	A4	1	4	2	7.6	57.76
0	A4	1	5	3	11.4	129.96
0	A4	1	6	3	11.4	129.96
0	A4	1	7	2	7.6	57.76
0	A4	1	8	3	11.4	129.96
0	A4	1	9	2	7.6	57.76
0	A4	1	10	3	11.4	129.96
0	A4	2	1	3	11.4	129.96
0	A4	2	2	2	7.6	57.76
0	A4	2	3	2	7.6	57.76
0	A4	2	4	2	7.6	57.76
0	A4	2	5	3	11.4	129.96
0	A4	2	6	2	7.6	57.76
0	A4	2	7	2	7.6	57.76
0	A4	2	8	3	11.4	129.96
0	A4	2	9	2	7.6	57.76
0	A4	2	10	3	11.4	129.96
0	A4	3	1	2	7.6	57.76
0	A4	3	2	2	7.6	57.76
0	A4	3	3	2	7.6	57.76
0	A4	3	4	3	11.4	129.96
0	A4	3	5	3	11.4	129.96
0	A4	3	6	2	7.6	57.76
0	A4	3	7	3	11.4	129.96
0	A4	3	8	3	11.4	129.96
0	A4	3	9	2	7.6	57.76
0	A4	3	10	3	11.4	129.96
0	A4	4	1	2	7.6	57.76
0	A4	4	2	2	7.6	57.76
0	A4	4	3	2	7.6	57.76
0	A4	4	4	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	A4	4	5	3	11.4	129.96
0	A4	4	6	2	7.6	57.76
0	A4	4	7	1	3.8	14.44
0	A4	4	8	2	7.6	57.76
0	A4	4	9	3	11.4	129.96
0	A4	4	10	2	7.6	57.76
0	A4	5	1	3	11.4	129.96
0	A4	5	2	3	11.4	129.96
0	A4	5	3	3	11.4	129.96
0	A4	5	4	2	7.6	57.76
0	A4	5	5	3	11.4	129.96
0	A4	5	6	2	7.6	57.76
0	A4	5	7	3	11.4	129.96
0	A4	5	8	2	7.6	57.76
0	A4	5	9	3	11.4	129.96
0	A4	5	10	2	7.6	57.76
0	A5	1	1	2	7.6	57.76
0	A5	1	2	2	7.6	57.76
0	A5	1	3	1	3.8	14.44
0	A5	1	4	2	7.6	57.76
0	A5	1	5	3	11.4	129.96
0	A5	1	6	2	7.6	57.76
0	A5	1	7	2	7.6	57.76
0	A5	1	8	1	3.8	14.44
0	A5	1	9	2	7.6	57.76
0	A5	1	10	2	7.6	57.76
0	A5	2	1	3	11.4	129.96
0	A5	2	2	2	7.6	57.76
0	A5	2	3	2	7.6	57.76
0	A5	2	4	2	7.6	57.76
0	A5	2	5	3	11.4	129.96
0	A5	2	6	2	7.6	57.76
0	A5	2	7	2	7.6	57.76
0	A5	2	8	2	7.6	57.76
0	A5	2	9	2	7.6	57.76
0	A5	2	10	2	7.6	57.76
0	A5	3	1	3	11.4	129.96
0	A5	3	2	2	7.6	57.76
0	A5	3	3	2	7.6	57.76
0	A5	3	4	3	11.4	129.96
0	A5	3	5	2	7.6	57.76
0	A5	3	6	3	11.4	129.96
0	A5	3	7	2	7.6	57.76
0	A5	3	8	2	7.6	57.76
0	A5	3	9	3	11.4	129.96
0	A5	3	10	3	11.4	129.96
0	A5	4	1	3	11.4	129.96
0	A5	4	2	2	7.6	57.76
0	A5	4	3	2	7.6	57.76
0	A5	4	4	3	11.4	129.96
0	A5	4	5	2	7.6	57.76
0	A5	4	6	2	7.6	57.76
0	A5	4	7	2	7.6	57.76
0	A5	4	8	2	7.6	57.76
0	A5	4	9	2	7.6	57.76
0	A5	4	10	2	7.6	57.76
0	A5	5	1	2	7.6	57.76
0	A5	5	2	2	7.6	57.76
0	A5	5	3	2	7.6	57.76
0	A5	5	4	3	11.4	129.96
0	A5	5	5	2	7.6	57.76



**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	A5	5	6	2	7.6	57.76
0	A5	5	7	2	7.6	57.76
0	A5	5	8	2	7.6	57.76
0	A5	5	9	2	7.6	57.76
0	A5	5	10	2	7.6	57.76
0	A6	1	1	3	11.4	129.96
0	A6	1	2	3	11.4	129.96
0	A6	1	3	2	7.6	57.76
0	A6	1	4	3	11.4	129.96
0	A6	1	5	2	7.6	57.76
0	A6	1	6	3	11.4	129.96
0	A6	1	7	2	7.6	57.76
0	A6	1	8	2	7.6	57.76
0	A6	1	9	2	7.6	57.76
0	A6	1	10	2	7.6	57.76
0	A6	2	1	2	7.6	57.76
0	A6	2	2	2	7.6	57.76
0	A6	2	3	3	11.4	129.96
0	A6	2	4	2	7.6	57.76
0	A6	2	5	2	7.6	57.76
0	A6	2	6	3	11.4	129.96
0	A6	2	7	2	7.6	57.76
0	A6	2	8	3	11.4	129.96
0	A6	2	9	2	7.6	57.76
0	A6	2	10	3	11.4	129.96
0	A6	3	1	3	11.4	129.96
0	A6	3	2	2	7.6	57.76
0	A6	3	3	3	11.4	129.96
0	A6	3	4	2	7.6	57.76
0	A6	3	5	3	11.4	129.96
0	A6	3	6	2	7.6	57.76
0	A6	3	7	2	7.6	57.76
0	A6	3	8	3	11.4	129.96
0	A6	4	1	2	7.6	57.76
0	A6	4	2	1	3.8	14.44
0	A6	4	3	3	11.4	129.96
0	A6	4	4	2	7.6	57.76
0	A6	4	5	2	7.6	57.76
0	A6	4	6	2	7.6	57.76
0	A6	5	1	2	7.6	57.76
0	A6	5	2	2	7.6	57.76
0	A6	5	3	2	7.6	57.76
0	A6	5	4	2	7.6	57.76
0	A6	5	5	1	3.8	14.44
0	A6	5	6	1	3.8	14.44
0	A6	5	7	2	7.6	57.76
0	A6	5	8	2	7.6	57.76
0	A6	5	9	1	3.8	14.44
0	A6	5	10	2	7.6	57.76
0	B1	1	1	3	11.4	129.96
0	B1	1	2	2	7.6	57.76
0	B1	1	3	2	7.6	57.76
0	B1	1	4	2	7.6	57.76
0	B1	1	5	3	11.4	129.96
0	B1	1	6	2	7.6	57.76
0	B1	1	7	2	7.6	57.76
0	B1	1	8	2	7.6	57.76
0	B1	1	9	2	7.6	57.76
0	B1	1	10	2	7.6	57.76
0	B1	2	1	3	11.4	129.96
0	B1	2	2	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	B1	2	3	3	11.4	129.96
0	B1	2	4	2	7.6	57.76
0	B1	2	5	3	11.4	129.96
0	B1	2	6	2	7.6	57.76
0	B1	2	7	2	7.6	57.76
0	B1	2	8	2	7.6	57.76
0	B1	2	9	2	7.6	57.76
0	B1	2	10	2	7.6	57.76
0	B1	3	1	3	11.4	129.96
0	B1	3	2	2	7.6	57.76
0	B1	3	3	3	11.4	129.96
0	B1	3	4	2	7.6	57.76
0	B1	3	5	2	7.6	57.76
0	B1	3	6	2	7.6	57.76
0	B1	3	7	3	11.4	129.96
0	B1	3	8	2	7.6	57.76
0	B1	3	9	2	7.6	57.76
0	B1	3	10	3	11.4	129.96
0	B1	4	1	3	11.4	129.96
0	B1	4	2	2	7.6	57.76
0	B1	4	3	3	11.4	129.96
0	B1	4	4	2	7.6	57.76
0	B1	4	5	2	7.6	57.76
0	B1	4	6	2	7.6	57.76
0	B1	4	7	2	7.6	57.76
0	B1	4	8	3	11.4	129.96
0	B1	4	9	2	7.6	57.76
0	B1	4	10	3	11.4	129.96
0	B1	5	1	3	11.4	129.96
0	B1	5	2	3	11.4	129.96
0	B1	5	3	3	11.4	129.96
0	B1	5	4	2	7.6	57.76
0	B1	5	5	2	7.6	57.76
0	B1	5	6	2	7.6	57.76
0	B1	5	7	3	11.4	129.96
0	B1	5	8	3	11.4	129.96
0	B2	1	1	3	11.4	129.96
0	B2	1	2	3	11.4	129.96
0	B2	1	3	3	11.4	129.96
0	B2	1	4	3	11.4	129.96
0	B2	1	5	2	7.6	57.76
0	B2	1	6	3	11.4	129.96
0	B2	1	7	3	11.4	129.96
0	B2	1	8	3	11.4	129.96
0	B2	1	9	3	11.4	129.96
0	B2	1	10	3	11.4	129.96
0	B2	2	1	3	11.4	129.96
0	B2	2	2	4	15.2	231.04
0	B2	2	3	3	11.4	129.96
0	B2	2	4	2	7.6	57.76
0	B2	2	5	3	11.4	129.96
0	B2	2	6	2	7.6	57.76
0	B2	2	7	3	11.4	129.96
0	B2	2	8	3	11.4	129.96
0	B2	2	9	3	11.4	129.96
0	B2	2	10	2	7.6	57.76
0	B2	3	1	4	15.2	231.04
0	B2	3	2	2	7.6	57.76
0	B2	3	3	3	11.4	129.96
0	B2	3	4	3	11.4	129.96
0	B2	3	5	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	B2	3	6	2	7.6	57.76
0	B2	3	7	2	7.6	57.76
0	B2	3	8	3	11.4	129.96
0	B2	3	9	2	7.6	57.76
0	B2	3	10	2	7.6	57.76
0	B2	4	1	3	11.4	129.96
0	B2	4	2	3	11.4	129.96
0	B2	4	3	2	7.6	57.76
0	B2	4	4	2	7.6	57.76
0	B2	4	5	3	11.4	129.96
0	B2	4	6	2	7.6	57.76
0	B2	4	7	3	11.4	129.96
0	B2	4	8	2	7.6	57.76
0	B2	4	9	2	7.6	57.76
0	B2	4	10	2	7.6	57.76
0	B2	5	1	3	11.4	129.96
0	B2	5	2	3	11.4	129.96
0	B2	5	3	2	7.6	57.76
0	B2	5	4	2	7.6	57.76
0	B2	5	5	3	11.4	129.96
0	B2	5	6	2	7.6	57.76
0	B2	5	7	3	11.4	129.96
0	B2	5	8	2	7.6	57.76
0	B2	5	9	2	7.6	57.76
0	B2	5	10	2	7.6	57.76
0	B3	1	1	3	11.4	129.96
0	B3	1	2	2	7.6	57.76
0	B3	1	3	3	11.4	129.96
0	B3	1	4	2	7.6	57.76
0	B3	1	5	3	11.4	129.96
0	B3	1	6	2	7.6	57.76
0	B3	1	7	2	7.6	57.76
0	B3	1	8	2	7.6	57.76
0	B3	1	9	2	7.6	57.76
0	B3	1	10	2	7.6	57.76
0	B3	2	1	2	7.6	57.76
0	B3	2	2	2	7.6	57.76
0	B3	2	3	2	7.6	57.76
0	B3	2	4	2	7.6	57.76
0	B3	2	5	3	11.4	129.96
0	B3	2	6	2	7.6	57.76
0	B3	2	7	2	7.6	57.76
0	B3	2	8	2	7.6	57.76
0	B3	2	9	2	7.6	57.76
0	B3	2	10	2	7.6	57.76
0	B3	3	1	2	7.6	57.76
0	B3	3	2	3	11.4	129.96
0	B3	3	3	2	7.6	57.76
0	B3	3	4	3	11.4	129.96
0	B3	3	5	2	7.6	57.76
0	B3	3	6	2	7.6	57.76
0	B3	3	7	3	11.4	129.96
0	B3	3	8	2	7.6	57.76
0	B3	3	9	3	11.4	129.96
0	B3	3	10	2	7.6	57.76
0	B3	4	1	2	7.6	57.76
0	B3	4	2	3	11.4	129.96
0	B3	4	3	2	7.6	57.76
0	B3	4	4	2	7.6	57.76
0	B3	4	5	2	7.6	57.76
0	B3	4	6	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	B3	4	7	2	7.6	57.76
0	B3	4	8	2	7.6	57.76
0	B3	4	9	3	11.4	129.96
0	B3	4	10	2	7.6	57.76
0	B3	5	1	2	7.6	57.76
0	B3	5	2	3	11.4	129.96
0	B3	5	3	3	11.4	129.96
0	B3	5	4	3	11.4	129.96
0	B3	5	5	2	7.6	57.76
0	B3	5	6	3	11.4	129.96
0	B3	5	7	2	7.6	57.76
0	B3	5	8	3	11.4	129.96
0	B3	5	9	2	7.6	57.76
0	B3	5	10	3	11.4	129.96
0	B4	1	1	2	7.6	57.76
0	B4	1	2	2	7.6	57.76
0	B4	1	3	2	7.6	57.76
0	B4	1	4	2	7.6	57.76
0	B4	1	5	2	7.6	57.76
0	B4	1	6	2	7.6	57.76
0	B4	1	7	3	11.4	129.96
0	B4	1	8	2	7.6	57.76
0	B4	1	9	3	11.4	129.96
0	B4	1	10	3	11.4	129.96
0	B4	2	1	2	7.6	57.76
0	B4	2	2	2	7.6	57.76
0	B4	2	3	3	11.4	129.96
0	B4	2	4	2	7.6	57.76
0	B4	2	5	3	11.4	129.96
0	B4	2	6	2	7.6	57.76
0	B4	2	7	2	7.6	57.76
0	B4	2	8	2	7.6	57.76
0	B4	2	9	2	7.6	57.76
0	B4	2	10	2	7.6	57.76
0	B4	3	1	3	11.4	129.96
0	B4	3	2	3	11.4	129.96
0	B4	3	3	3	11.4	129.96
0	B4	3	4	3	11.4	129.96
0	B4	3	5	3	11.4	129.96
0	B4	3	6	2	7.6	57.76
0	B4	3	7	2	7.6	57.76
0	B4	3	8	3	11.4	129.96
0	B4	3	9	3	11.4	129.96
0	B4	3	10	3	11.4	129.96
0	B4	4	1	2	7.6	57.76
0	B4	4	2	2	7.6	57.76
0	B4	4	3	2	7.6	57.76
0	B4	4	4	2	7.6	57.76
0	B4	4	5	3	11.4	129.96
0	B4	4	6	2	7.6	57.76
0	B4	4	7	4	15.2	231.04
0	B4	4	8	3	11.4	129.96
0	B4	4	9	3	11.4	129.96
0	B4	4	10	3	11.4	129.96
0	B4	5	1	3	11.4	129.96
0	B4	5	2	2	7.6	57.76
0	B4	5	3	2	7.6	57.76
0	B4	5	4	2	7.6	57.76
0	B4	5	5	3	11.4	129.96
0	B4	5	6	2	7.6	57.76
0	B4	5	7	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	B4	5	8	2	7.6	57.76
0	B4	5	9	2	7.6	57.76
0	B4	5	10	2	7.6	57.76
0	B5	1	1	3	11.4	129.96
0	B5	1	2	3	11.4	129.96
0	B5	1	3	3	11.4	129.96
0	B5	1	4	3	11.4	129.96
0	B5	1	5	3	11.4	129.96
0	B5	1	6	3	11.4	129.96
0	B5	1	7	2	7.6	57.76
0	B5	1	8	2	7.6	57.76
0	B5	1	9	3	11.4	129.96
0	B5	1	10	3	11.4	129.96
0	B5	2	1	2	7.6	57.76
0	B5	2	2	2	7.6	57.76
0	B5	2	3	2	7.6	57.76
0	B5	2	4	2	7.6	57.76
0	B5	2	5	3	11.4	129.96
0	B5	2	6	2	7.6	57.76
0	B5	2	7	2	7.6	57.76
0	B5	2	8	2	7.6	57.76
0	B5	2	9	2	7.6	57.76
0	B5	2	10	3	11.4	129.96
0	B5	3	1	2	7.6	57.76
0	B5	3	2	2	7.6	57.76
0	B5	3	3	2	7.6	57.76
0	B5	3	4	2	7.6	57.76
0	B5	3	5	2	7.6	57.76
0	B5	3	6	2	7.6	57.76
0	B5	3	7	2	7.6	57.76
0	B5	3	8	2	7.6	57.76
0	B5	3	9	2	7.6	57.76
0	B5	3	10	2	7.6	57.76
0	B5	4	1	3	11.4	129.96
0	B5	4	2	3	11.4	129.96
0	B5	4	3	3	11.4	129.96
0	B5	4	4	2	7.6	57.76
0	B5	4	5	2	7.6	57.76
0	B5	4	6	2	7.6	57.76
0	B5	4	7	2	7.6	57.76
0	B5	4	8	2	7.6	57.76
0	B5	4	9	2	7.6	57.76
0	B5	4	10	2	7.6	57.76
0	B5	5	1	2	7.6	57.76
0	B5	5	2	3	11.4	129.96
0	B5	5	3	2	7.6	57.76
0	B5	5	4	3	11.4	129.96
0	B5	5	5	2	7.6	57.76
0	B5	5	6	2	7.6	57.76
0	B5	5	7	2	7.6	57.76
0	B5	5	8	2	7.6	57.76
0	B5	5	9	2	7.6	57.76
0	B5	5	10	2	7.6	57.76
0	B6	1	1	3	11.4	129.96
0	B6	1	2	3	11.4	129.96
0	B6	1	3	2	7.6	57.76
0	B6	1	4	3	11.4	129.96
0	B6	1	5	2	7.6	57.76
0	B6	1	6	2	7.6	57.76
0	B6	1	7	2	7.6	57.76
0	B6	1	8	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	B6	1	9	3	11.4	129.96
0	B6	1	10	2	7.6	57.76
0	B6	2	1	3	11.4	129.96
0	B6	2	2	3	11.4	129.96
0	B6	2	3	3	11.4	129.96
0	B6	2	4	3	11.4	129.96
0	B6	2	5	3	11.4	129.96
0	B6	2	6	3	11.4	129.96
0	B6	2	7	3	11.4	129.96
0	B6	2	8	3	11.4	129.96
0	B6	2	9	2	7.6	57.76
0	B6	2	10	3	11.4	129.96
0	B6	3	1	4	15.2	231.04
0	B6	3	2	3	11.4	129.96
0	B6	3	3	3	11.4	129.96
0	B6	3	4	3	11.4	129.96
0	B6	3	5	2	7.6	57.76
0	B6	3	6	3	11.4	129.96
0	B6	3	7	2	7.6	57.76
0	B6	3	8	2	7.6	57.76
0	B6	3	9	3	11.4	129.96
0	B6	3	10	3	11.4	129.96
0	B6	4	1	4	15.2	231.04
0	B6	4	2	3	11.4	129.96
0	B6	4	3	3	11.4	129.96
0	B6	4	4	3	11.4	129.96
0	B6	4	5	3	11.4	129.96
0	B6	4	6	3	11.4	129.96
0	B6	4	7	3	11.4	129.96
0	B6	4	8	3	11.4	129.96
0	B6	4	9	2	7.6	57.76
0	B6	4	10	2	7.6	57.76
0	B6	5	1	3	11.4	129.96
0	B6	5	2	2	7.6	57.76
0	B6	5	3	2	7.6	57.76
0	B6	5	4	3	11.4	129.96
0	B6	5	5	2	7.6	57.76
0	B6	5	6	3	11.4	129.96
0	B6	5	7	3	11.4	129.96
0	B6	5	8	3	11.4	129.96
0	B6	5	9	3	11.4	129.96
0	B6	5	10	3	11.4	129.96
0	C1	1	1	2	7.6	57.76
0	C1	1	2	2	7.6	57.76
0	C1	1	3	3	11.4	129.96
0	C1	1	4	2	7.6	57.76
0	C1	1	5	2	7.6	57.76
0	C1	1	6	2	7.6	57.76
0	C1	1	7	3	11.4	129.96
0	C1	1	8	3	11.4	129.96
0	C1	1	9	3	11.4	129.96
0	C1	1	10	3	11.4	129.96
0	C1	2	1	2	7.6	57.76
0	C1	2	2	2	7.6	57.76
0	C1	2	3	2	7.6	57.76
0	C1	2	4	2	7.6	57.76
0	C1	2	5	2	7.6	57.76
0	C1	2	6	2	7.6	57.76
0	C1	2	7	2	7.6	57.76
0	C1	2	8	2	7.6	57.76
0	C1	2	9	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	C1	2	10	2	7.6	57.76
0	C1	3	1	2	7.6	57.76
0	C1	3	2	2	7.6	57.76
0	C1	3	3	3	11.4	129.96
0	C1	3	4	2	7.6	57.76
0	C1	3	5	2	7.6	57.76
0	C1	3	6	2	7.6	57.76
0	C1	3	7	2	7.6	57.76
0	C1	3	8	2	7.6	57.76
0	C1	3	9	2	7.6	57.76
0	C1	3	10	2	7.6	57.76
0	C1	4	1	2	7.6	57.76
0	C1	4	2	3	11.4	129.96
0	C1	4	3	2	7.6	57.76
0	C1	4	4	3	11.4	129.96
0	C1	4	5	2	7.6	57.76
0	C1	4	6	3	11.4	129.96
0	C1	4	7	2	7.6	57.76
0	C1	4	8	3	11.4	129.96
0	C1	4	9	2	7.6	57.76
0	C1	4	10	3	11.4	129.96
0	C1	5	1	2	7.6	57.76
0	C1	5	2	3	11.4	129.96
0	C1	5	3	2	7.6	57.76
0	C1	5	4	3	11.4	129.96
0	C1	5	5	2	7.6	57.76
0	C1	5	6	3	11.4	129.96
0	C1	5	7	3	11.4	129.96
0	C1	5	8	2	7.6	57.76
0	C1	5	9	3	11.4	129.96
0	C1	5	10	2	7.6	57.76
0	C2	1	1	4	15.2	231.04
0	C2	1	2	3	11.4	129.96
0	C2	1	3	2	7.6	57.76
0	C2	1	4	3	11.4	129.96
0	C2	1	5	2	7.6	57.76
0	C2	1	6	2	7.6	57.76
0	C2	1	7	2	7.6	57.76
0	C2	1	8	2	7.6	57.76
0	C2	1	9	2	7.6	57.76
0	C2	1	10	2	7.6	57.76
0	C2	2	1	4	15.2	231.04
0	C2	2	2	4	15.2	231.04
0	C2	2	3	3	11.4	129.96
0	C2	2	4	3	11.4	129.96
0	C2	2	5	2	7.6	57.76
0	C2	2	6	3	11.4	129.96
0	C2	2	7	2	7.6	57.76
0	C2	2	8	2	7.6	57.76
0	C2	2	9	2	7.6	57.76
0	C2	2	10	2	7.6	57.76
0	C2	3	1	4	15.2	231.04
0	C2	3	2	3	11.4	129.96
0	C2	3	3	2	7.6	57.76
0	C2	3	4	2	7.6	57.76
0	C2	3	5	2	7.6	57.76
0	C2	3	6	3	11.4	129.96
0	C2	3	7	2	7.6	57.76
0	C2	3	8	2	7.6	57.76
0	C2	3	9	2	7.6	57.76
0	C2	3	10	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	C2	4	1	4	15.2	231.04
0	C2	4	2	2	7.6	57.76
0	C2	4	3	3	11.4	129.96
0	C2	4	4	4	15.2	231.04
0	C2	4	5	2	7.6	57.76
0	C2	4	6	3	11.4	129.96
0	C2	4	7	3	11.4	129.96
0	C2	4	8	3	11.4	129.96
0	C2	4	9	3	11.4	129.96
0	C2	4	10	3	11.4	129.96
0	C2	5	1	3	11.4	129.96
0	C2	5	2	2	7.6	57.76
0	C2	5	3	3	11.4	129.96
0	C2	5	4	2	7.6	57.76
0	C2	5	5	2	7.6	57.76
0	C2	5	6	2	7.6	57.76
0	C2	5	7	3	11.4	129.96
0	C2	5	8	2	7.6	57.76
0	C2	5	9	2	7.6	57.76
0	C2	5	10	2	7.6	57.76
0	C3	1	1	3	11.4	129.96
0	C3	1	2	4	15.2	231.04
0	C3	1	3	3	11.4	129.96
0	C3	1	4	4	15.2	231.04
0	C3	1	5	3	11.4	129.96
0	C3	1	6	2	7.6	57.76
0	C3	1	7	3	11.4	129.96
0	C3	1	8	3	11.4	129.96
0	C3	1	9	2	7.6	57.76
0	C3	1	10	3	11.4	129.96
0	C3	2	1	4	15.2	231.04
0	C3	2	2	4	15.2	231.04
0	C3	2	3	3	11.4	129.96
0	C3	2	4	2	7.6	57.76
0	C3	2	5	3	11.4	129.96
0	C3	2	6	3	11.4	129.96
0	C3	2	7	3	11.4	129.96
0	C3	2	8	3	11.4	129.96
0	C3	2	9	3	11.4	129.96
0	C3	2	10	3	11.4	129.96
0	C3	3	1	4	15.2	231.04
0	C3	3	2	4	15.2	231.04
0	C3	3	3	4	15.2	231.04
0	C3	3	4	2	7.6	57.76
0	C3	3	5	3	11.4	129.96
0	C3	3	6	2	7.6	57.76
0	C3	3	7	2	7.6	57.76
0	C3	3	8	2	7.6	57.76
0	C3	3	9	3	11.4	129.96
0	C3	3	10	3	11.4	129.96
0	C3	4	1	4	15.2	231.04
0	C3	4	2	3	11.4	129.96
0	C3	4	3	2	7.6	57.76
0	C3	4	4	2	7.6	57.76
0	C3	4	5	3	11.4	129.96
0	C3	4	6	2	7.6	57.76
0	C3	4	7	2	7.6	57.76
0	C3	4	8	2	7.6	57.76
0	C3	4	9	3	11.4	129.96
0	C3	4	10	3	11.4	129.96
0	C3	5	1	3	11.4	129.96



**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	C3	5	2	3	11.4	129.96
0	C3	5	3	3	11.4	129.96
0	C3	5	4	3	11.4	129.96
0	C3	5	5	3	11.4	129.96
0	C3	5	6	3	11.4	129.96
0	C3	5	7	3	11.4	129.96
0	C3	5	8	3	11.4	129.96
0	C3	5	9	3	11.4	129.96
0	C3	5	10	3	11.4	129.96
0	C4	1	1	3	11.4	129.96
0	C4	1	2	4	15.2	231.04
0	C4	1	3	4	15.2	231.04
0	C4	1	4	3	11.4	129.96
0	C4	1	5	3	11.4	129.96
0	C4	1	6	3	11.4	129.96
0	C4	1	7	4	15.2	231.04
0	C4	1	8	3	11.4	129.96
0	C4	1	9	2	7.6	57.76
0	C4	1	10	4	15.2	231.04
0	C4	2	1	4	15.2	231.04
0	C4	2	2	4	15.2	231.04
0	C4	2	3	3	11.4	129.96
0	C4	2	4	2	7.6	57.76
0	C4	2	5	2	7.6	57.76
0	C4	2	6	2	7.6	57.76
0	C4	2	7	4	15.2	231.04
0	C4	2	8	3	11.4	129.96
0	C4	2	9	3	11.4	129.96
0	C4	2	10	3	11.4	129.96
0	C4	3	1	3	11.4	129.96
0	C4	3	2	2	7.6	57.76
0	C4	3	3	2	7.6	57.76
0	C4	3	4	3	11.4	129.96
0	C4	3	5	2	7.6	57.76
0	C4	3	6	3	11.4	129.96
0	C4	3	7	2	7.6	57.76
0	C4	3	8	2	7.6	57.76
0	C4	3	9	2	7.6	57.76
0	C4	3	10	2	7.6	57.76
0	C4	4	1	4	15.2	231.04
0	C4	4	2	4	15.2	231.04
0	C4	4	3	4	15.2	231.04
0	C4	4	4	2	7.6	57.76
0	C4	4	5	4	15.2	231.04
0	C4	4	6	3	11.4	129.96
0	C4	4	7	3	11.4	129.96
0	C4	4	8	4	15.2	231.04
0	C4	4	9	3	11.4	129.96
0	C4	4	10	3	11.4	129.96
0	C4	5	1	3	11.4	129.96
0	C4	5	2	3	11.4	129.96
0	C4	5	3	3	11.4	129.96
0	C4	5	4	2	7.6	57.76
0	C4	5	5	2	7.6	57.76
0	C4	5	6	3	11.4	129.96
0	C4	5	7	2	7.6	57.76
0	C4	5	8	2	7.6	57.76
0	C4	5	9	2	7.6	57.76
0	C4	5	10	2	7.6	57.76
0	C5	1	1	4	15.2	231.04
0	C5	1	2	4	15.2	231.04

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	C5	1	3	4	15.2	231.04
0	C5	1	4	4	15.2	231.04
0	C5	1	5	4	15.2	231.04
0	C5	1	6	4	15.2	231.04
0	C5	1	7	4	15.2	231.04
0	C5	1	8	4	15.2	231.04
0	C5	1	9	4	15.2	231.04
0	C5	1	10	4	15.2	231.04
0	C5	2	1	4	15.2	231.04
0	C5	2	2	3	11.4	129.96
0	C5	2	3	4	15.2	231.04
0	C5	2	4	3	11.4	129.96
0	C5	2	5	4	15.2	231.04
0	C5	2	6	4	15.2	231.04
0	C5	2	7	3	11.4	129.96
0	C5	2	8	4	15.2	231.04
0	C5	2	9	3	11.4	129.96
0	C5	2	10	3	11.4	129.96
0	C5	3	1	4	15.2	231.04
0	C5	3	2	4	15.2	231.04
0	C5	3	3	4	15.2	231.04
0	C5	3	4	4	15.2	231.04
0	C5	3	5	3	11.4	129.96
0	C5	3	6	2	7.6	57.76
0	C5	3	7	3	11.4	129.96
0	C5	3	8	4	15.2	231.04
0	C5	3	9	4	15.2	231.04
0	C5	3	10	4	15.2	231.04
0	C5	4	1	2	7.6	57.76
0	C5	4	2	2	7.6	57.76
0	C5	4	3	2	7.6	57.76
0	C5	4	4	2	7.6	57.76
0	C5	4	5	3	11.4	129.96
0	C5	4	6	4	15.2	231.04
0	C5	4	7	4	15.2	231.04
0	C5	4	8	4	15.2	231.04
0	C5	4	9	4	15.2	231.04
0	C5	4	10	3	11.4	129.96
0	C5	5	1	3	11.4	129.96
0	C5	5	2	3	11.4	129.96
0	C5	5	3	2	7.6	57.76
0	C5	5	4	3	11.4	129.96
0	C5	5	5	2	7.6	57.76
0	C5	5	6	4	15.2	231.04
0	C5	5	7	4	15.2	231.04
0	C5	5	8	3	11.4	129.96
0	C5	5	9	3	11.4	129.96
0	C5	5	10	2	7.6	57.76
0	C6	1	1	3	11.4	129.96
0	C6	1	2	3	11.4	129.96
0	C6	1	3	2	7.6	57.76
0	C6	1	4	2	7.6	57.76
0	C6	1	5	2	7.6	57.76
0	C6	1	6	2	7.6	57.76
0	C6	1	7	2	7.6	57.76
0	C6	1	8	2	7.6	57.76
0	C6	1	9	2	7.6	57.76
0	C6	1	10	2	7.6	57.76
0	C6	2	1	2	7.6	57.76
0	C6	2	2	2	7.6	57.76
0	C6	2	3	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

0	C6	2	4	2	7.6	57.76
0	C6	2	5	2	7.6	57.76
0	C6	2	6	2	7.6	57.76
0	C6	2	7	2	7.6	57.76
0	C6	2	8	2	7.6	57.76
0	C6	2	9	2	7.6	57.76
0	C6	2	10	2	7.6	57.76
0	C6	3	1	2	7.6	57.76
0	C6	3	2	2	7.6	57.76
0	C6	3	3	2	7.6	57.76
0	C6	3	4	2	7.6	57.76
0	C6	3	5	2	7.6	57.76
0	C6	3	6	2	7.6	57.76
0	C6	3	7	2	7.6	57.76
0	C6	3	8	2	7.6	57.76
0	C6	3	9	2	7.6	57.76
0	C6	3	10	2	7.6	57.76
0	C6	4	1	3	11.4	129.96
0	C6	4	2	3	11.4	129.96
0	C6	4	3	3	11.4	129.96
0	C6	4	4	2	7.6	57.76
0	C6	4	5	2	7.6	57.76
0	C6	4	6	2	7.6	57.76
0	C6	4	7	2	7.6	57.76
0	C6	4	8	2	7.6	57.76
0	C6	4	9	2	7.6	57.76
0	C6	5	1	2	7.6	57.76
0	C6	5	2	2	7.6	57.76
0	C6	5	3	2	7.6	57.76
0	C6	5	4	2	7.6	57.76
0	C6	5	5	2	7.6	57.76
0	C6	5	6	2	7.6	57.76
8	A1	1	1	3	11.4	129.96
8	A1	1	2	3	11.4	129.96
8	A1	1	3	3	11.4	129.96
8	A1	1	4	3	11.4	129.96
8	A1	1	5	2	7.6	57.76
8	A1	1	6	2	7.6	57.76
8	A1	1	7	2	7.6	57.76
8	A1	1	8	2	7.6	57.76
8	A1	1	9	2	7.6	57.76
8	A1	1	10	2	7.6	57.76
8	A1	2	1	2	7.6	57.76
8	A1	2	2	2	7.6	57.76
8	A1	2	3	2	7.6	57.76
8	A1	2	4	2	7.6	57.76
8	A1	2	5	2	7.6	57.76
8	A1	2	6	2	7.6	57.76
8	A1	2	7	2	7.6	57.76
8	A1	2	8	2	7.6	57.76
8	A1	2	9	3	11.4	129.96
8	A1	2	10	3	11.4	129.96
8	A1	3	1	2	7.6	57.76
8	A1	3	2	2	7.6	57.76
8	A1	3	3	3	11.4	129.96
8	A1	3	4	3	11.4	129.96
8	A1	3	5	2	7.6	57.76
8	A1	3	6	2	7.6	57.76
8	A1	3	7	2	7.6	57.76
8	A1	3	8	2	7.6	57.76
8	A1	3	9	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	A1	3	10	2	7.6	57.76
8	A1	4	1	2	7.6	57.76
8	A1	4	2	3	11.4	129.96
8	A1	4	3	3	11.4	129.96
8	A1	4	4	2	7.6	57.76
8	A1	4	5	1	3.8	14.44
8	A1	4	6	2	7.6	57.76
8	A1	4	7	1	3.8	14.44
8	A1	4	8	2	7.6	57.76
8	A1	4	9	3	11.4	129.96
8	A1	4	10	2	7.6	57.76
8	A1	5	1	2	7.6	57.76
8	A1	5	2	3	11.4	129.96
8	A1	5	3	2	7.6	57.76
8	A1	5	4	2	7.6	57.76
8	A1	5	5	2	7.6	57.76
8	A1	5	6	2	7.6	57.76
8	A1	5	7	1	3.8	14.44
8	A1	5	8	2	7.6	57.76
8	A1	5	9	3	11.4	129.96
8	A1	5	10	2	7.6	57.76
8	A2	1	1	2	7.6	57.76
8	A2	1	2	2	7.6	57.76
8	A2	1	3	2	7.6	57.76
8	A2	1	4	2	7.6	57.76
8	A2	1	5	2	7.6	57.76
8	A2	1	6	2	7.6	57.76
8	A2	1	7	2	7.6	57.76
8	A2	1	8	2	7.6	57.76
8	A2	1	9	2	7.6	57.76
8	A2	1	10	2	7.6	57.76
8	A2	2	1	2	7.6	57.76
8	A2	2	2	2	7.6	57.76
8	A2	2	3	2	7.6	57.76
8	A2	2	4	2	7.6	57.76
8	A2	2	5	2	7.6	57.76
8	A2	2	6	2	7.6	57.76
8	A2	2	7	2	7.6	57.76
8	A2	2	8	2	7.6	57.76
8	A2	2	9	2	7.6	57.76
8	A2	2	10	2	7.6	57.76
8	A2	3	1	2	7.6	57.76
8	A2	3	2	2	7.6	57.76
8	A2	3	3	2	7.6	57.76
8	A2	3	4	2	7.6	57.76
8	A2	3	5	2	7.6	57.76
8	A2	3	6	2	7.6	57.76
8	A2	3	7	2	7.6	57.76
8	A2	3	8	2	7.6	57.76
8	A2	3	9	2	7.6	57.76
8	A2	3	10	2	7.6	57.76
8	A2	4	1	2	7.6	57.76
8	A2	4	2	3	11.4	129.96
8	A2	4	3	3	11.4	129.96
8	A2	4	4	2	7.6	57.76
8	A2	4	5	2	7.6	57.76
8	A2	4	6	2	7.6	57.76
8	A2	4	7	2	7.6	57.76
8	A2	4	8	2	7.6	57.76
8	A2	4	9	2	7.6	57.76
8	A2	4	10	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	A2	5	1	3	11.4	129.96
8	A2	5	2	3	11.4	129.96
8	A2	5	3	3	11.4	129.96
8	A2	5	4	3	11.4	129.96
8	A2	5	5	2	7.6	57.76
8	A2	5	6	2	7.6	57.76
8	A2	5	7	2	7.6	57.76
8	A2	5	8	2	7.6	57.76
8	A2	5	9	2	7.6	57.76
8	A2	5	10	2	7.6	57.76
8	A3	1	1	3	11.4	129.96
8	A3	1	2	3	11.4	129.96
8	A3	1	3	3	11.4	129.96
8	A3	1	4	2	7.6	57.76
8	A3	1	5	2	7.6	57.76
8	A3	1	6	3	11.4	129.96
8	A3	1	7	2	7.6	57.76
8	A3	1	8	2	7.6	57.76
8	A3	1	9	2	7.6	57.76
8	A3	1	10	2	7.6	57.76
8	A3	2	1	3	11.4	129.96
8	A3	2	2	3	11.4	129.96
8	A3	2	3	3	11.4	129.96
8	A3	2	4	2	7.6	57.76
8	A3	2	5	2	7.6	57.76
8	A3	2	6	2	7.6	57.76
8	A3	2	7	2	7.6	57.76
8	A3	2	8	2	7.6	57.76
8	A3	2	9	2	7.6	57.76
8	A3	2	10	2	7.6	57.76
8	A3	3	1	3	11.4	129.96
8	A3	3	2	3	11.4	129.96
8	A3	3	3	3	11.4	129.96
8	A3	3	4	2	7.6	57.76
8	A3	3	5	3	11.4	129.96
8	A3	3	6	2	7.6	57.76
8	A3	3	7	2	7.6	57.76
8	A3	3	8	2	7.6	57.76
8	A3	3	9	2	7.6	57.76
8	A3	3	10	2	7.6	57.76
8	A3	4	1	3	11.4	129.96
8	A3	4	2	3	11.4	129.96
8	A3	4	3	3	11.4	129.96
8	A3	4	4	2	7.6	57.76
8	A3	4	5	2	7.6	57.76
8	A3	4	6	3	11.4	129.96
8	A3	4	7	2	7.6	57.76
8	A3	4	8	3	11.4	129.96
8	A3	4	9	2	7.6	57.76
8	A3	4	10	2	7.6	57.76
8	A3	5	1	3	11.4	129.96
8	A3	5	2	3	11.4	129.96
8	A3	5	3	3	11.4	129.96
8	A3	5	4	3	11.4	129.96
8	A3	5	5	3	11.4	129.96
8	A3	5	6	3	11.4	129.96
8	A3	5	7	2	7.6	57.76
8	A3	5	8	2	7.6	57.76
8	A3	5	9	3	11.4	129.96
8	A3	5	10	2	7.6	57.76
8	A4	1	1	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	A4	1	2	2	7.6	57.76
8	A4	1	3	3	11.4	129.96
8	A4	1	4	2	7.6	57.76
8	A4	1	5	3	11.4	129.96
8	A4	1	6	2	7.6	57.76
8	A4	1	7	2	7.6	57.76
8	A4	1	8	2	7.6	57.76
8	A4	1	9	2	7.6	57.76
8	A4	1	10	2	7.6	57.76
8	A4	2	1	2	7.6	57.76
8	A4	2	2	3	11.4	129.96
8	A4	2	3	2	7.6	57.76
8	A4	2	4	3	11.4	129.96
8	A4	2	5	2	7.6	57.76
8	A4	2	6	2	7.6	57.76
8	A4	2	7	2	7.6	57.76
8	A4	2	8	2	7.6	57.76
8	A4	2	9	2	7.6	57.76
8	A4	2	10	2	7.6	57.76
8	A4	3	1	2	7.6	57.76
8	A4	3	2	2	7.6	57.76
8	A4	3	3	2	7.6	57.76
8	A4	3	4	2	7.6	57.76
8	A4	3	5	2	7.6	57.76
8	A4	3	6	2	7.6	57.76
8	A4	3	7	3	11.4	129.96
8	A4	3	8	2	7.6	57.76
8	A4	3	9	2	7.6	57.76
8	A4	3	10	2	7.6	57.76
8	A4	4	1	3	11.4	129.96
8	A4	4	2	3	11.4	129.96
8	A4	4	3	2	7.6	57.76
8	A4	4	4	2	7.6	57.76
8	A4	4	5	2	7.6	57.76
8	A4	4	6	2	7.6	57.76
8	A4	4	7	2	7.6	57.76
8	A4	4	8	3	11.4	129.96
8	A4	4	9	2	7.6	57.76
8	A4	4	10	2	7.6	57.76
8	A4	5	1	3	11.4	129.96
8	A4	5	2	2	7.6	57.76
8	A4	5	3	2	7.6	57.76
8	A4	5	4	3	11.4	129.96
8	A4	5	5	2	7.6	57.76
8	A4	5	6	2	7.6	57.76
8	A4	5	7	2	7.6	57.76
8	A4	5	8	2	7.6	57.76
8	A4	5	9	2	7.6	57.76
8	A4	5	10	2	7.6	57.76
8	A5	1	1	2	7.6	57.76
8	A5	1	2	2	7.6	57.76
8	A5	1	3	2	7.6	57.76
8	A5	1	4	2	7.6	57.76
8	A5	1	5	3	11.4	129.96
8	A5	1	6	2	7.6	57.76
8	A5	1	7	3	11.4	129.96
8	A5	1	8	2	7.6	57.76
8	A5	1	9	2	7.6	57.76
8	A5	1	10	2	7.6	57.76
8	A5	2	1	2	7.6	57.76
8	A5	2	2	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	A5	2	3	2	7.6	57.76
8	A5	2	4	2	7.6	57.76
8	A5	2	5	2	7.6	57.76
8	A5	2	6	3	11.4	129.96
8	A5	2	7	2	7.6	57.76
8	A5	2	8	2	7.6	57.76
8	A5	2	9	2	7.6	57.76
8	A5	2	10	2	7.6	57.76
8	A5	3	1	3	11.4	129.96
8	A5	3	2	3	11.4	129.96
8	A5	3	3	3	11.4	129.96
8	A5	3	4	3	11.4	129.96
8	A5	3	5	2	7.6	57.76
8	A5	3	6	2	7.6	57.76
8	A5	3	7	3	11.4	129.96
8	A5	3	8	2	7.6	57.76
8	A5	3	9	2	7.6	57.76
8	A5	3	10	3	11.4	129.96
8	A5	4	1	3	11.4	129.96
8	A5	4	2	3	11.4	129.96
8	A5	4	3	3	11.4	129.96
8	A5	4	4	3	11.4	129.96
8	A5	4	5	2	7.6	57.76
8	A5	4	6	2	7.6	57.76
8	A5	4	7	2	7.6	57.76
8	A5	4	8	3	11.4	129.96
8	A5	4	9	2	7.6	57.76
8	A5	4	10	2	7.6	57.76
8	A5	5	1	3	11.4	129.96
8	A5	5	2	3	11.4	129.96
8	A5	5	3	3	11.4	129.96
8	A5	5	4	3	11.4	129.96
8	A5	5	5	3	11.4	129.96
8	A5	5	6	3	11.4	129.96
8	A5	5	7	2	7.6	57.76
8	A5	5	8	2	7.6	57.76
8	A5	5	9	2	7.6	57.76
8	A5	5	10	3	11.4	129.96
8	A6	1	1	3	11.4	129.96
8	A6	1	2	2	7.6	57.76
8	A6	1	3	2	7.6	57.76
8	A6	1	4	2	7.6	57.76
8	A6	1	5	3	11.4	129.96
8	A6	1	6	3	11.4	129.96
8	A6	1	7	2	7.6	57.76
8	A6	1	8	2	7.6	57.76
8	A6	1	9	2	7.6	57.76
8	A6	1	10	2	7.6	57.76
8	A6	2	1	2	7.6	57.76
8	A6	2	2	2	7.6	57.76
8	A6	2	3	2	7.6	57.76
8	A6	2	4	2	7.6	57.76
8	A6	2	5	2	7.6	57.76
8	A6	2	6	3	11.4	129.96
8	A6	2	7	2	7.6	57.76
8	A6	2	8	2	7.6	57.76
8	A6	2	9	2	7.6	57.76
8	A6	2	10	2	7.6	57.76
8	A6	3	1	3	11.4	129.96
8	A6	3	2	3	11.4	129.96
8	A6	3	3	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	A6	3	4	2	7.6	57.76
8	A6	3	5	2	7.6	57.76
8	A6	3	6	2	7.6	57.76
8	A6	3	7	2	7.6	57.76
8	A6	3	8	2	7.6	57.76
8	A6	3	9	2	7.6	57.76
8	A6	3	10	2	7.6	57.76
8	A6	4	1	3	11.4	129.96
8	A6	4	2	3	11.4	129.96
8	A6	4	3	2	7.6	57.76
8	A6	4	4	2	7.6	57.76
8	A6	4	5	2	7.6	57.76
8	A6	4	6	2	7.6	57.76
8	A6	4	7	2	7.6	57.76
8	A6	4	8	2	7.6	57.76
8	A6	4	9	2	7.6	57.76
8	A6	4	10	2	7.6	57.76
8	A6	5	1	3	11.4	129.96
8	A6	5	2	2	7.6	57.76
8	A6	5	3	2	7.6	57.76
8	A6	5	4	2	7.6	57.76
8	A6	5	5	2	7.6	57.76
8	A6	5	6	2	7.6	57.76
8	A6	5	7	2	7.6	57.76
8	A6	5	8	2	7.6	57.76
8	A6	5	9	2	7.6	57.76
8	A6	5	10	2	7.6	57.76
8	B1	1	1	3	11.4	129.96
8	B1	1	2	2	7.6	57.76
8	B1	1	3	2	7.6	57.76
8	B1	1	4	2	7.6	57.76
8	B1	1	5	2	7.6	57.76
8	B1	1	6	3	11.4	129.96
8	B1	1	7	2	7.6	57.76
8	B1	1	8	2	7.6	57.76
8	B1	1	9	2	7.6	57.76
8	B1	1	10	2	7.6	57.76
8	B1	2	1	2	7.6	57.76
8	B1	2	2	2	7.6	57.76
8	B1	2	3	2	7.6	57.76
8	B1	2	4	2	7.6	57.76
8	B1	2	5	2	7.6	57.76
8	B1	2	6	2	7.6	57.76
8	B1	2	7	2	7.6	57.76
8	B1	2	8	2	7.6	57.76
8	B1	2	9	2	7.6	57.76
8	B1	2	10	2	7.6	57.76
8	B1	3	1	2	7.6	57.76
8	B1	3	2	2	7.6	57.76
8	B1	3	3	2	7.6	57.76
8	B1	3	4	2	7.6	57.76
8	B1	3	5	2	7.6	57.76
8	B1	3	6	2	7.6	57.76
8	B1	3	7	2	7.6	57.76
8	B1	3	8	2	7.6	57.76
8	B1	3	9	2	7.6	57.76
8	B1	3	10	2	7.6	57.76
8	B1	4	1	2	7.6	57.76
8	B1	4	2	2	7.6	57.76
8	B1	4	3	2	7.6	57.76
8	B1	4	4	2	7.6	57.76



**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	B1	4	5	2	7.6	57.76
8	B1	4	6	2	7.6	57.76
8	B1	4	7	2	7.6	57.76
8	B1	4	8	2	7.6	57.76
8	B1	4	9	2	7.6	57.76
8	B1	4	10	2	7.6	57.76
8	B1	5	1	3	11.4	129.96
8	B1	5	2	2	7.6	57.76
8	B1	5	3	2	7.6	57.76
8	B1	5	4	2	7.6	57.76
8	B1	5	5	2	7.6	57.76
8	B1	5	6	2	7.6	57.76
8	B1	5	7	2	7.6	57.76
8	B1	5	8	2	7.6	57.76
8	B1	5	9	2	7.6	57.76
8	B1	5	10	2	7.6	57.76
8	B2	1	1	2	7.6	57.76
8	B2	1	2	2	7.6	57.76
8	B2	1	3	2	7.6	57.76
8	B2	1	4	2	7.6	57.76
8	B2	1	5	2	7.6	57.76
8	B2	1	6	2	7.6	57.76
8	B2	1	7	2	7.6	57.76
8	B2	1	8	2	7.6	57.76
8	B2	1	9	2	7.6	57.76
8	B2	1	10	2	7.6	57.76
8	B2	2	1	2	7.6	57.76
8	B2	2	2	2	7.6	57.76
8	B2	2	3	2	7.6	57.76
8	B2	2	4	2	7.6	57.76
8	B2	2	5	2	7.6	57.76
8	B2	2	6	2	7.6	57.76
8	B2	2	7	2	7.6	57.76
8	B2	2	8	2	7.6	57.76
8	B2	2	9	2	7.6	57.76
8	B2	2	10	2	7.6	57.76
8	B2	3	1	3	11.4	129.96
8	B2	3	2	3	11.4	129.96
8	B2	3	3	2	7.6	57.76
8	B2	3	4	2	7.6	57.76
8	B2	3	5	2	7.6	57.76
8	B2	3	6	2	7.6	57.76
8	B2	3	7	2	7.6	57.76
8	B2	3	8	2	7.6	57.76
8	B2	3	9	2	7.6	57.76
8	B2	4	1	2	7.6	57.76
8	B2	4	2	2	7.6	57.76
8	B2	4	3	2	7.6	57.76
8	B2	4	4	2	7.6	57.76
8	B2	4	5	2	7.6	57.76
8	B2	4	6	2	7.6	57.76
8	B2	4	7	2	7.6	57.76
8	B2	4	8	2	7.6	57.76
8	B2	4	9	2	7.6	57.76
8	B2	4	10	2	7.6	57.76
8	B2	5	1	2	7.6	57.76
8	B2	5	2	2	7.6	57.76
8	B2	5	3	2	7.6	57.76
8	B2	5	4	2	7.6	57.76
8	B2	5	5	2	7.6	57.76
8	B2	5	6	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	B2	5	7	2	7.6	57.76
8	B2	5	8	2	7.6	57.76
8	B2	5	9	2	7.6	57.76
8	B2	5	10	2	7.6	57.76
8	B3	1	1	3	11.4	129.96
8	B3	1	2	2	7.6	57.76
8	B3	1	3	3	11.4	129.96
8	B3	1	4	3	11.4	129.96
8	B3	1	5	2	7.6	57.76
8	B3	1	6	2	7.6	57.76
8	B3	1	7	2	7.6	57.76
8	B3	1	8	2	7.6	57.76
8	B3	1	9	2	7.6	57.76
8	B3	1	10	2	7.6	57.76
8	B3	2	1	3	11.4	129.96
8	B3	2	2	3	11.4	129.96
8	B3	2	3	3	11.4	129.96
8	B3	2	4	2	7.6	57.76
8	B3	2	5	2	7.6	57.76
8	B3	2	6	2	7.6	57.76
8	B3	2	7	2	7.6	57.76
8	B3	2	8	2	7.6	57.76
8	B3	2	9	2	7.6	57.76
8	B3	2	10	2	7.6	57.76
8	B3	3	1	3	11.4	129.96
8	B3	3	2	2	7.6	57.76
8	B3	3	3	2	7.6	57.76
8	B3	3	4	2	7.6	57.76
8	B3	3	5	2	7.6	57.76
8	B3	3	6	2	7.6	57.76
8	B3	3	7	2	7.6	57.76
8	B3	3	8	2	7.6	57.76
8	B3	3	9	2	7.6	57.76
8	B3	3	10	2	7.6	57.76
8	B3	4	1	3	11.4	129.96
8	B3	4	2	3	11.4	129.96
8	B3	4	3	3	11.4	129.96
8	B3	4	4	3	11.4	129.96
8	B3	4	5	3	11.4	129.96
8	B3	4	6	3	11.4	129.96
8	B3	4	7	2	7.6	57.76
8	B3	4	8	2	7.6	57.76
8	B3	4	9	2	7.6	57.76
8	B3	4	10	2	7.6	57.76
8	B3	5	1	2	7.6	57.76
8	B3	5	2	2	7.6	57.76
8	B3	5	3	2	7.6	57.76
8	B3	5	4	2	7.6	57.76
8	B3	5	5	2	7.6	57.76
8	B3	5	6	2	7.6	57.76
8	B3	5	7	2	7.6	57.76
8	B3	5	8	2	7.6	57.76
8	B3	5	9	2	7.6	57.76
8	B3	5	10	2	7.6	57.76
8	B4	1	1	3	11.4	129.96
8	B4	1	2	3	11.4	129.96
8	B4	1	3	3	11.4	129.96
8	B4	1	4	2	7.6	57.76
8	B4	1	5	3	11.4	129.96
8	B4	1	6	2	7.6	57.76
8	B4	1	7	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	B4	1	8	2	7.6	57.76
8	B4	1	9	3	11.4	129.96
8	B4	1	10	2	7.6	57.76
8	B4	2	1	3	11.4	129.96
8	B4	2	2	3	11.4	129.96
8	B4	2	3	3	11.4	129.96
8	B4	2	4	3	11.4	129.96
8	B4	2	5	3	11.4	129.96
8	B4	2	6	3	11.4	129.96
8	B4	2	7	2	7.6	57.76
8	B4	2	8	2	7.6	57.76
8	B4	2	9	3	11.4	129.96
8	B4	2	10	3	11.4	129.96
8	B4	3	1	3	11.4	129.96
8	B4	3	2	2	7.6	57.76
8	B4	3	3	2	7.6	57.76
8	B4	3	4	2	7.6	57.76
8	B4	3	5	3	11.4	129.96
8	B4	3	6	3	11.4	129.96
8	B4	3	7	3	11.4	129.96
8	B4	3	8	3	11.4	129.96
8	B4	3	9	3	11.4	129.96
8	B4	3	10	3	11.4	129.96
8	B4	4	1	2	7.6	57.76
8	B4	4	2	2	7.6	57.76
8	B4	4	3	3	11.4	129.96
8	B4	4	4	3	11.4	129.96
8	B4	4	5	2	7.6	57.76
8	B4	4	6	2	7.6	57.76
8	B4	4	7	2	7.6	57.76
8	B4	4	8	2	7.6	57.76
8	B4	4	9	2	7.6	57.76
8	B4	4	10	2	7.6	57.76
8	B4	5	1	2	7.6	57.76
8	B4	5	2	3	11.4	129.96
8	B4	5	3	3	11.4	129.96
8	B4	5	4	3	11.4	129.96
8	B4	5	5	3	11.4	129.96
8	B4	5	6	2	7.6	57.76
8	B4	5	7	2	7.6	57.76
8	B4	5	8	2	7.6	57.76
8	B4	5	9	2	7.6	57.76
8	B4	5	10	2	7.6	57.76
8	B5	1	1	3	11.4	129.96
8	B5	1	2	3	11.4	129.96
8	B5	1	3	3	11.4	129.96
8	B5	1	4	2	7.6	57.76
8	B5	1	5	2	7.6	57.76
8	B5	1	6	3	11.4	129.96
8	B5	1	7	2	7.6	57.76
8	B5	1	8	3	11.4	129.96
8	B5	1	9	3	11.4	129.96
8	B5	1	10	3	11.4	129.96
8	B5	2	1	2	7.6	57.76
8	B5	2	2	2	7.6	57.76
8	B5	2	3	2	7.6	57.76
8	B5	2	4	2	7.6	57.76
8	B5	2	5	2	7.6	57.76
8	B5	2	6	2	7.6	57.76
8	B5	2	7	2	7.6	57.76
8	B5	2	8	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	B5	2	9	2	7.6	57.76
8	B5	2	10	2	7.6	57.76
8	B5	3	1	3	11.4	129.96
8	B5	3	2	3	11.4	129.96
8	B5	3	3	3	11.4	129.96
8	B5	3	4	2	7.6	57.76
8	B5	3	5	2	7.6	57.76
8	B5	3	6	3	11.4	129.96
8	B5	3	7	3	11.4	129.96
8	B5	3	8	2	7.6	57.76
8	B5	3	9	2	7.6	57.76
8	B5	3	10	2	7.6	57.76
8	B5	4	1	3	11.4	129.96
8	B5	4	2	4	15.2	231.04
8	B5	4	3	3	11.4	129.96
8	B5	4	4	2	7.6	57.76
8	B5	4	5	2	7.6	57.76
8	B5	4	6	3	11.4	129.96
8	B5	4	7	3	11.4	129.96
8	B5	4	8	3	11.4	129.96
8	B5	4	9	2	7.6	57.76
8	B5	4	10	2	7.6	57.76
8	B5	5	1	3	11.4	129.96
8	B5	5	2	2	7.6	57.76
8	B5	5	3	2	7.6	57.76
8	B5	5	4	2	7.6	57.76
8	B5	5	5	2	7.6	57.76
8	B5	5	6	2	7.6	57.76
8	B5	5	7	2	7.6	57.76
8	B5	5	8	2	7.6	57.76
8	B5	5	9	2	7.6	57.76
8	B5	5	10	2	7.6	57.76
8	C1	1	1	3	11.4	129.96
8	C1	1	2	3	11.4	129.96
8	C1	1	3	3	11.4	129.96
8	C1	1	4	3	11.4	129.96
8	C1	1	5	3	11.4	129.96
8	C1	1	6	2	7.6	57.76
8	C1	1	7	3	11.4	129.96
8	C1	1	8	2	7.6	57.76
8	C1	1	9	2	7.6	57.76
8	C1	1	10	3	11.4	129.96
8	C1	2	1	4	15.2	231.04
8	C1	2	2	4	15.2	231.04
8	C1	2	3	3	11.4	129.96
8	C1	2	4	3	11.4	129.96
8	C1	2	5	2	7.6	57.76
8	C1	2	6	3	11.4	129.96
8	C1	2	7	3	11.4	129.96
8	C1	2	8	3	11.4	129.96
8	C1	2	9	2	7.6	57.76
8	C1	2	10	3	11.4	129.96
8	C1	3	1	4	15.2	231.04
8	C1	3	2	3	11.4	129.96
8	C1	3	3	3	11.4	129.96
8	C1	3	4	3	11.4	129.96
8	C1	3	5	3	11.4	129.96
8	C1	3	6	2	7.6	57.76
8	C1	3	7	2	7.6	57.76
8	C1	3	8	3	11.4	129.96
8	C1	3	9	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	C1	3	10	2	7.6	57.76
8	C1	4	1	2	7.6	57.76
8	C1	4	2	2	7.6	57.76
8	C1	4	3	2	7.6	57.76
8	C1	4	4	2	7.6	57.76
8	C1	4	5	3	11.4	129.96
8	C1	4	6	2	7.6	57.76
8	C1	4	7	2	7.6	57.76
8	C1	4	8	3	11.4	129.96
8	C1	4	9	2	7.6	57.76
8	C1	4	10	2	7.6	57.76
8	C1	5	1	2	7.6	57.76
8	C1	5	2	2	7.6	57.76
8	C1	5	3	2	7.6	57.76
8	C1	5	4	2	7.6	57.76
8	C1	5	5	2	7.6	57.76
8	C1	5	6	2	7.6	57.76
8	C1	5	7	2	7.6	57.76
8	C1	5	8	2	7.6	57.76
8	C1	5	9	2	7.6	57.76
8	C1	5	10	2	7.6	57.76
8	C2	1	1	2	7.6	57.76
8	C2	1	2	2	7.6	57.76
8	C2	1	3	2	7.6	57.76
8	C2	1	4	2	7.6	57.76
8	C2	1	5	2	7.6	57.76
8	C2	1	6	2	7.6	57.76
8	C2	1	7	2	7.6	57.76
8	C2	1	8	2	7.6	57.76
8	C2	1	9	2	7.6	57.76
8	C2	1	10	2	7.6	57.76
8	C2	2	1	3	11.4	129.96
8	C2	2	2	3	11.4	129.96
8	C2	2	3	2	7.6	57.76
8	C2	2	4	2	7.6	57.76
8	C2	2	5	2	7.6	57.76
8	C2	2	6	2	7.6	57.76
8	C2	2	7	2	7.6	57.76
8	C2	2	8	2	7.6	57.76
8	C2	2	9	2	7.6	57.76
8	C2	2	10	2	7.6	57.76
8	C2	3	1	3	11.4	129.96
8	C2	3	2	3	11.4	129.96
8	C2	3	3	3	11.4	129.96
8	C2	3	4	3	11.4	129.96
8	C2	3	5	2	7.6	57.76
8	C2	3	6	2	7.6	57.76
8	C2	3	7	3	11.4	129.96
8	C2	3	8	3	11.4	129.96
8	C2	3	9	3	11.4	129.96
8	C2	3	10	3	11.4	129.96
8	C2	4	1	3	11.4	129.96
8	C2	4	2	3	11.4	129.96
8	C2	4	3	2	7.6	57.76
8	C2	4	4	2	7.6	57.76
8	C2	4	5	2	7.6	57.76
8	C2	4	6	2	7.6	57.76
8	C2	4	7	2	7.6	57.76
8	C2	4	8	2	7.6	57.76
8	C2	4	9	2	7.6	57.76
8	C2	4	10	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	C2	5	1	2	7.6	57.76
8	C2	5	2	2	7.6	57.76
8	C2	5	3	2	7.6	57.76
8	C2	5	4	2	7.6	57.76
8	C2	5	5	2	7.6	57.76
8	C2	5	6	2	7.6	57.76
8	C2	5	7	2	7.6	57.76
8	C2	5	8	2	7.6	57.76
8	C2	5	9	2	7.6	57.76
8	C3	1	1	2	7.6	57.76
8	C3	1	2	2	7.6	57.76
8	C3	1	3	2	7.6	57.76
8	C3	1	4	2	7.6	57.76
8	C3	1	5	2	7.6	57.76
8	C3	1	6	2	7.6	57.76
8	C3	1	7	2	7.6	57.76
8	C3	1	8	2	7.6	57.76
8	C3	1	9	2	7.6	57.76
8	C3	1	10	2	7.6	57.76
8	C3	2	1	2	7.6	57.76
8	C3	2	2	2	7.6	57.76
8	C3	2	3	2	7.6	57.76
8	C3	2	4	2	7.6	57.76
8	C3	2	5	2	7.6	57.76
8	C3	2	6	2	7.6	57.76
8	C3	2	7	2	7.6	57.76
8	C3	2	8	2	7.6	57.76
8	C3	2	9	2	7.6	57.76
8	C3	2	10	2	7.6	57.76
8	C3	3	1	2	7.6	57.76
8	C3	3	2	2	7.6	57.76
8	C3	3	3	2	7.6	57.76
8	C3	3	4	2	7.6	57.76
8	C3	3	5	2	7.6	57.76
8	C3	3	6	2	7.6	57.76
8	C3	3	7	2	7.6	57.76
8	C3	3	8	2	7.6	57.76
8	C3	3	9	2	7.6	57.76
8	C3	3	10	2	7.6	57.76
8	C3	4	1	2	7.6	57.76
8	C3	4	2	2	7.6	57.76
8	C3	4	3	2	7.6	57.76
8	C3	4	4	2	7.6	57.76
8	C3	4	5	2	7.6	57.76
8	C3	4	6	2	7.6	57.76
8	C3	4	7	2	7.6	57.76
8	C3	4	8	2	7.6	57.76
8	C3	4	9	2	7.6	57.76
8	C3	4	10	2	7.6	57.76
8	C3	5	1	2	7.6	57.76
8	C3	5	2	2	7.6	57.76
8	C3	5	3	2	7.6	57.76
8	C3	5	4	2	7.6	57.76
8	C3	5	5	2	7.6	57.76
8	C3	5	6	2	7.6	57.76
8	C3	5	7	2	7.6	57.76
8	C3	5	8	2	7.6	57.76
8	C3	5	9	2	7.6	57.76
8	C3	5	10	2	7.6	57.76
8	C4	1	1	2	7.6	57.76
8	C4	1	2	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

8	C4	1	3	2	7.6	57.76
8	C4	1	4	2	7.6	57.76
8	C4	1	5	2	7.6	57.76
8	C4	1	6	2	7.6	57.76
8	C4	1	7	2	7.6	57.76
8	C4	1	8	2	7.6	57.76
8	C4	1	9	2	7.6	57.76
8	C4	1	10	2	7.6	57.76
8	C4	2	1	2	7.6	57.76
8	C4	2	2	2	7.6	57.76
8	C4	2	3	2	7.6	57.76
8	C4	2	4	2	7.6	57.76
8	C4	2	5	2	7.6	57.76
8	C4	2	6	2	7.6	57.76
8	C4	2	7	2	7.6	57.76
8	C4	2	8	2	7.6	57.76
8	C4	2	9	2	7.6	57.76
8	C4	2	10	2	7.6	57.76
8	C4	3	1	2	7.6	57.76
8	C4	3	2	2	7.6	57.76
8	C4	3	3	2	7.6	57.76
8	C4	3	4	2	7.6	57.76
8	C4	3	5	2	7.6	57.76
8	C4	3	6	2	7.6	57.76
8	C4	3	7	2	7.6	57.76
8	C4	3	8	2	7.6	57.76
8	C4	3	9	2	7.6	57.76
8	C4	3	10	2	7.6	57.76
8	C4	4	1	2	7.6	57.76
8	C4	4	2	2	7.6	57.76
8	C4	4	3	2	7.6	57.76
8	C4	4	4	2	7.6	57.76
8	C4	4	5	2	7.6	57.76
8	C4	4	6	2	7.6	57.76
8	C4	4	7	2	7.6	57.76
8	C4	4	8	2	7.6	57.76
8	C4	4	9	2	7.6	57.76
8	C4	4	10	2	7.6	57.76
8	C4	5	1	2	7.6	57.76
8	C4	5	2	2	7.6	57.76
8	C4	5	3	2	7.6	57.76
8	C4	5	4	2	7.6	57.76
8	C4	5	5	2	7.6	57.76
8	C4	5	6	2	7.6	57.76
8	C4	5	7	2	7.6	57.76
8	C4	5	8	2	7.6	57.76
8	C4	5	9	2	7.6	57.76
8	C4	5	10	2	7.6	57.76
552	A1	1	1	3	11.4	129.96
552	A1	1	2	3	11.4	129.96
552	A1	1	3	3	11.4	129.96
552	A1	1	4	3	11.4	129.96
552	A1	1	5	2	7.6	57.76
552	A1	1	6	2	7.6	57.76
552	A1	1	7	2	7.6	57.76
552	A1	1	8	2	7.6	57.76
552	A1	1	9	2	7.6	57.76
552	A1	1	10	2	7.6	57.76
552	A1	2	1	2	7.6	57.76
552	A1	2	2	2	7.6	57.76
552	A1	2	3	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	A1	2	4	2	7.6	57.76
552	A1	2	5	2	7.6	57.76
552	A1	2	6	2	7.6	57.76
552	A1	2	7	2	7.6	57.76
552	A1	2	8	2	7.6	57.76
552	A1	2	9	2	7.6	57.76
552	A1	2	10	2	7.6	57.76
552	A1	3	1	2	7.6	57.76
552	A1	3	2	3	11.4	129.96
552	A1	3	3	2	7.6	57.76
552	A1	3	4	2	7.6	57.76
552	A1	3	5	2	7.6	57.76
552	A1	3	6	3	11.4	129.96
552	A1	3	7	2	7.6	57.76
552	A1	3	8	2	7.6	57.76
552	A1	3	9	2	7.6	57.76
552	A1	3	10	2	7.6	57.76
552	A1	4	1	2	7.6	57.76
552	A1	4	2	2	7.6	57.76
552	A1	4	3	2	7.6	57.76
552	A1	4	4	2	7.6	57.76
552	A1	4	5	2	7.6	57.76
552	A1	4	6	2	7.6	57.76
552	A1	4	7	2	7.6	57.76
552	A1	4	8	2	7.6	57.76
552	A1	4	9	2	7.6	57.76
552	A1	4	10	2	7.6	57.76
552	A1	5	1	3	11.4	129.96
552	A1	5	2	3	11.4	129.96
552	A1	5	3	2	7.6	57.76
552	A1	5	4	2	7.6	57.76
552	A1	5	5	2	7.6	57.76
552	A1	5	6	2	7.6	57.76
552	A1	5	7	2	7.6	57.76
552	A1	5	8	2	7.6	57.76
552	A1	5	9	2	7.6	57.76
552	A1	5	10	2	7.6	57.76
552	A2	1	1	2	7.6	57.76
552	A2	1	2	2	7.6	57.76
552	A2	1	3	2	7.6	57.76
552	A2	1	4	2	7.6	57.76
552	A2	1	5	2	7.6	57.76
552	A2	1	6	2	7.6	57.76
552	A2	1	7	2	7.6	57.76
552	A2	1	8	2	7.6	57.76
552	A2	1	9	2	7.6	57.76
552	A2	1	10	2	7.6	57.76
552	A2	2	1	1	3.8	14.44
552	A2	2	2	1	3.8	14.44
552	A2	2	3	1	3.8	14.44
552	A2	2	4	2	7.6	57.76
552	A2	2	5	1	3.8	14.44
552	A2	2	6	2	7.6	57.76
552	A2	2	7	2	7.6	57.76
552	A2	2	8	2	7.6	57.76
552	A2	2	9	2	7.6	57.76
552	A2	2	10	2	7.6	57.76
552	A2	3	1	1	3.8	14.44
552	A2	3	2	1	3.8	14.44
552	A2	3	3	2	7.6	57.76
552	A2	3	4	2	7.6	57.76



**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	A2	3	5	1	3.8	14.44
552	A2	3	6	2	7.6	57.76
552	A2	3	7	1	3.8	14.44
552	A2	3	8	1	3.8	14.44
552	A2	3	9	2	7.6	57.76
552	A2	3	10	1	3.8	14.44
552	A2	4	1	2	7.6	57.76
552	A2	4	2	2	7.6	57.76
552	A2	4	3	2	7.6	57.76
552	A2	4	4	2	7.6	57.76
552	A2	4	5	2	7.6	57.76
552	A2	4	6	2	7.6	57.76
552	A2	4	7		0	0
552	A2	4	8		0	0
552	A2	4	9		0	0
552	A2	4	10		0	0
552	A2	5	1	2	7.6	57.76
552	A2	5	2	2	7.6	57.76
552	A2	5	3	2	7.6	57.76
552	A2	5	4	2	7.6	57.76
552	A2	5	5	2	7.6	57.76
552	A2	5	6	2	7.6	57.76
552	A2	5	7	2	7.6	57.76
552	A2	5	8	2	7.6	57.76
552	A2	5	9	2	7.6	57.76
552	A2	5	10	2	7.6	57.76
552	A3	1	1	1	3.8	14.44
552	A3	1	2	1	3.8	14.44
552	A3	1	3	2	7.6	57.76
552	A3	1	4	2	7.6	57.76
552	A3	1	5	1	3.8	14.44
552	A3	1	6	1	3.8	14.44
552	A3	1	7	2	7.6	57.76
552	A3	1	8	1	3.8	14.44
552	A3	1	9	2	7.6	57.76
552	A3	1	10	1	3.8	14.44
552	A3	2	1	1	3.8	14.44
552	A3	2	2	2	7.6	57.76
552	A3	2	3	2	7.6	57.76
552	A3	2	4	2	7.6	57.76
552	A3	2	5	2	7.6	57.76
552	A3	2	6	2	7.6	57.76
552	A3	2	7	2	7.6	57.76
552	A3	2	8	2	7.6	57.76
552	A3	2	9	2	7.6	57.76
552	A3	2	10	2	7.6	57.76
552	A3	3	1	1	3.8	14.44
552	A3	3	2	2	7.6	57.76
552	A3	3	3	2	7.6	57.76
552	A3	3	4	2	7.6	57.76
552	A3	4	1	2	7.6	57.76
552	A3	4	2	2	7.6	57.76
552	A3	4	3	2	7.6	57.76
552	A3	4	4	2	7.6	57.76
552	A3	4	5	2	7.6	57.76
552	A3	4	6	2	7.6	57.76
552	A3	4	7	2	7.6	57.76
552	A3	4	8	2	7.6	57.76
552	A3	4	9	2	7.6	57.76
552	A3	4	10	2	7.6	57.76
552	A3	5	1	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	A3	5	2	2	7.6	57.76
552	A3	5	3	2	7.6	57.76
552	A3	5	4	3	11.4	129.96
552	A3	5	5	2	7.6	57.76
552	A3	5	6	1	3.8	14.44
552	A3	5	7	1	3.8	14.44
552	A3	5	8	1	3.8	14.44
552	A3	5	9	2	7.6	57.76
552	A3	5	10	1	3.8	14.44
552	A4	1	1	2	7.6	57.76
552	A4	1	2	2	7.6	57.76
552	A4	1	3	2	7.6	57.76
552	A4	1	4	2	7.6	57.76
552	A4	1	5	2	7.6	57.76
552	A4	1	6	2	7.6	57.76
552	A4	1	7	2	7.6	57.76
552	A4	1	8	2	7.6	57.76
552	A4	1	9	2	7.6	57.76
552	A4	1	10	2	7.6	57.76
552	A4	2	1	2	7.6	57.76
552	A4	2	2	2	7.6	57.76
552	A4	2	3	2	7.6	57.76
552	A4	2	4	2	7.6	57.76
552	A4	2	5	2	7.6	57.76
552	A4	2	6	2	7.6	57.76
552	A4	2	7	2	7.6	57.76
552	A4	2	8	2	7.6	57.76
552	A4	2	9	2	7.6	57.76
552	A4	2	10	2	7.6	57.76
552	A4	3	1	2	7.6	57.76
552	A4	3	2	2	7.6	57.76
552	A4	3	3	2	7.6	57.76
552	A4	3	4	2	7.6	57.76
552	A4	3	5	2	7.6	57.76
552	A4	3	6	2	7.6	57.76
552	A4	4	1	2	7.6	57.76
552	A4	4	2	2	7.6	57.76
552	A4	4	3	2	7.6	57.76
552	A4	4	4	2	7.6	57.76
552	A4	4	5	2	7.6	57.76
552	A4	4	6	2	7.6	57.76
552	A4	4	7	2	7.6	57.76
552	A4	4	8	2	7.6	57.76
552	A4	4	9	2	7.6	57.76
552	A4	4	10	2	7.6	57.76
552	A4	5	1	2	7.6	57.76
552	A4	5	2	2	7.6	57.76
552	A4	5	3	2	7.6	57.76
552	A4	5	4	2	7.6	57.76
552	A4	5	5	2	7.6	57.76
552	A4	5	6	2	7.6	57.76
552	A4	5	7	2	7.6	57.76
552	A4	5	8	2	7.6	57.76
552	A4	5	9	2	7.6	57.76
552	A4	5	10	2	7.6	57.76
552	A5	1	1	2	7.6	57.76
552	A5	1	2	2	7.6	57.76
552	A5	1	3	2	7.6	57.76
552	A5	1	4	2	7.6	57.76
552	A5	1	5	2	7.6	57.76
552	A5	1	6	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	A5	1	7	2	7.6	57.76
552	A5	1	8	2	7.6	57.76
552	A5	1	9	2	7.6	57.76
552	A5	1	10	2	7.6	57.76
552	A5	2	1	1	3.8	14.44
552	A5	2	2	2	7.6	57.76
552	A5	2	3	2	7.6	57.76
552	A5	2	4	2	7.6	57.76
552	A5	3	1	2	7.6	57.76
552	A5	3	2	2	7.6	57.76
552	A5	3	3	2	7.6	57.76
552	A5	3	4	2	7.6	57.76
552	A5	3	5	2	7.6	57.76
552	A5	3	6	2	7.6	57.76
552	A5	3	7	2	7.6	57.76
552	A5	3	8	2	7.6	57.76
552	A5	3	9	2	7.6	57.76
552	A5	3	10	2	7.6	57.76
552	A5	4	1	2	7.6	57.76
552	A5	4	2	2	7.6	57.76
552	A5	4	3	2	7.6	57.76
552	A5	4	4	2	7.6	57.76
552	A5	4	5	2	7.6	57.76
552	A5	4	6	2	7.6	57.76
552	A5	5	1	2	7.6	57.76
552	A5	5	2	2	7.6	57.76
552	A5	5	3	2	7.6	57.76
552	A5	5	4	2	7.6	57.76
552	A5	5	5	2	7.6	57.76
552	A5	5	6	2	7.6	57.76
552	B1	1	1	2	7.6	57.76
552	B1	1	2	1	3.8	14.44
552	B1	1	3	2	7.6	57.76
552	B1	1	4	1	3.8	14.44
552	B1	1	5	2	7.6	57.76
552	B1	1	6	2	7.6	57.76
552	B1	1	7	2	7.6	57.76
552	B1	1	8	1	3.8	14.44
552	B1	1	9	2	7.6	57.76
552	B1	1	10	2	7.6	57.76
552	B1	2	1	2	7.6	57.76
552	B1	2	2	3	11.4	129.96
552	B1	2	3	2	7.6	57.76
552	B1	2	4	2	7.6	57.76
552	B1	2	5	1	3.8	14.44
552	B1	2	6	2	7.6	57.76
552	B1	2	7	2	7.6	57.76
552	B1	2	8	2	7.6	57.76
552	B1	2	9	2	7.6	57.76
552	B1	2	10	2	7.6	57.76
552	B1	3	1	2	7.6	57.76
552	B1	3	2	2	7.6	57.76
552	B1	3	3	2	7.6	57.76
552	B1	3	4	2	7.6	57.76
552	B1	3	5	2	7.6	57.76
552	B1	3	6	2	7.6	57.76
552	B1	3	7	2	7.6	57.76
552	B1	3	8	2	7.6	57.76
552	B1	3	9	2	7.6	57.76
552	B1	3	10	2	7.6	57.76
552	B1	4	1	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	B1	4	2	3	11.4	129.96
552	B1	4	3	3	11.4	129.96
552	B1	4	4	3	11.4	129.96
552	B1	4	5	3	11.4	129.96
552	B1	4	6	3	11.4	129.96
552	B1	4	7	3	11.4	129.96
552	B1	4	8	2	7.6	57.76
552	B1	4	9	2	7.6	57.76
552	B1	4	10	23	87.4	7638.76
552	B1	5	1	3	11.4	129.96
552	B1	5	2	3	11.4	129.96
552	B1	5	3	3	11.4	129.96
552	B1	5	4	32	121.6	14786.56
552	B1	5	5	3	11.4	129.96
552	B1	5	6	2	7.6	57.76
552	B1	5	7	2	7.6	57.76
552	B1	5	8	3	11.4	129.96
552	B1	5	9	2	7.6	57.76
552	B1	5	10	2	7.6	57.76
552	B2	1	1	2	7.6	57.76
552	B2	1	2	2	7.6	57.76
552	B2	1	3	2	7.6	57.76
552	B2	1	4	2	7.6	57.76
552	B2	1	5	3	11.4	129.96
552	B2	1	6	2	7.6	57.76
552	B2	1	7	2	7.6	57.76
552	B2	1	8	2	7.6	57.76
552	B2	1	9	3	11.4	129.96
552	B2	1	10	2	7.6	57.76
552	B2	2	1	3	11.4	129.96
552	B2	2	2	3	11.4	129.96
552	B2	2	3	3	11.4	129.96
552	B2	2	4	2	7.6	57.76
552	B2	2	5	3	11.4	129.96
552	B2	2	6	2	7.6	57.76
552	B2	2	7	3	11.4	129.96
552	B2	2	8	2	7.6	57.76
552	B2	2	9	2	7.6	57.76
552	B2	2	10	2	7.6	57.76
552	B2	3	1	3	11.4	129.96
552	B2	3	2	3	11.4	129.96
552	B2	3	3	2	7.6	57.76
552	B2	3	4	2	7.6	57.76
552	B2	3	5	2	7.6	57.76
552	B2	3	6	2	7.6	57.76
552	B2	3	7	2	7.6	57.76
552	B2	3	8	2	7.6	57.76
552	B2	3	9	2	7.6	57.76
552	B2	3	10	2	7.6	57.76
552	B2	4	1	3	11.4	129.96
552	B2	4	2	3	11.4	129.96
552	B2	4	3	3	11.4	129.96
552	B2	4	4	3	11.4	129.96
552	B2	4	5	3	11.4	129.96
552	B2	4	6	2	7.6	57.76
552	B2	4	7	2	7.6	57.76
552	B2	4	8	2	7.6	57.76
552	B2	4	9	2	7.6	57.76
552	B2	4	10	2	7.6	57.76
552	B2	5	1	3	11.4	129.96
552	B2	5	2	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	B2	5	3	3	11.4	129.96
552	B2	5	4	2	7.6	57.76
552	B2	5	5	2	7.6	57.76
552	B2	5	6	3	11.4	129.96
552	B2	5	7	2	7.6	57.76
552	B2	5	8	2	7.6	57.76
552	B2	5	9	3	11.4	129.96
552	B2	5	10	3	11.4	129.96
552	B3	1	1	2	7.6	57.76
552	B3	1	2	2	7.6	57.76
552	B3	1	3	2	7.6	57.76
552	B3	1	4	2	7.6	57.76
552	B3	1	5	3	11.4	129.96
552	B3	1	6	3	11.4	129.96
552	B3	1	7	3	11.4	129.96
552	B3	1	8	2	7.6	57.76
552	B3	1	9	3	11.4	129.96
552	B3	1	10	2	7.6	57.76
552	B3	2	1	2	7.6	57.76
552	B3	2	2	3	11.4	129.96
552	B3	2	3	3	11.4	129.96
552	B3	2	4	3	11.4	129.96
552	B3	2	5	3	11.4	129.96
552	B3	2	6	3	11.4	129.96
552	B3	2	7	3	11.4	129.96
552	B3	2	8	2	7.6	57.76
552	B3	2	9	2	7.6	57.76
552	B3	2	10	2	7.6	57.76
552	B3	3	1	2	7.6	57.76
552	B3	3	2	3	11.4	129.96
552	B3	3	3	3	11.4	129.96
552	B3	3	4	3	11.4	129.96
552	B3	3	5	3	11.4	129.96
552	B3	3	6	2	7.6	57.76
552	B3	3	7	2	7.6	57.76
552	B3	3	8	2	7.6	57.76
552	B3	3	9	2	7.6	57.76
552	B3	3	10	2	7.6	57.76
552	B3	4	1	3	11.4	129.96
552	B3	4	2	3	11.4	129.96
552	B3	4	3	3	11.4	129.96
552	B3	4	4	3	11.4	129.96
552	B3	4	5	3	11.4	129.96
552	B3	4	6	3	11.4	129.96
552	B3	4	7	2	7.6	57.76
552	B3	4	8	2	7.6	57.76
552	B3	4	9	2	7.6	57.76
552	B3	4	10	2	7.6	57.76
552	B3	5	1	3	11.4	129.96
552	B3	5	2	3	11.4	129.96
552	B3	5	3	3	11.4	129.96
552	B3	5	4	3	11.4	129.96
552	B3	5	5	3	11.4	129.96
552	B3	5	6	3	11.4	129.96
552	B3	5	7	2	7.6	57.76
552	B3	5	8	2	7.6	57.76
552	B3	5	9	3	11.4	129.96
552	B3	5	10	3	11.4	129.96
552	B4	1	1	3	11.4	129.96
552	B4	1	2	3	11.4	129.96
552	B4	1	3	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	B4	1	4	3	11.4	129.96
552	B4	1	5	2	7.6	57.76
552	B4	1	6	3	11.4	129.96
552	B4	1	7	2	7.6	57.76
552	B4	1	8	3	11.4	129.96
552	B4	1	9	2	7.6	57.76
552	B4	1	10	2	7.6	57.76
552	B4	2	1	3	11.4	129.96
552	B4	2	2	3	11.4	129.96
552	B4	2	3	2	7.6	57.76
552	B4	2	4	2	7.6	57.76
552	B4	2	5	3	11.4	129.96
552	B4	2	6	2	7.6	57.76
552	B4	2	7	2	7.6	57.76
552	B4	2	8	2	7.6	57.76
552	B4	2	9	3	11.4	129.96
552	B4	2	10	3	11.4	129.96
552	B4	3	1	3	11.4	129.96
552	B4	3	2	2	7.6	57.76
552	B4	3	3	2	7.6	57.76
552	B4	3	4	3	11.4	129.96
552	B4	3	5	2	7.6	57.76
552	B4	3	6	2	7.6	57.76
552	B4	3	7	2	7.6	57.76
552	B4	3	8	2	7.6	57.76
552	B4	3	9	3	11.4	129.96
552	B4	3	10	3	11.4	129.96
552	B4	4	1	3	11.4	129.96
552	B4	4	2	3	11.4	129.96
552	B4	4	3	3	11.4	129.96
552	B4	4	4	2	7.6	57.76
552	B4	4	5	3	11.4	129.96
552	B4	4	6	2	7.6	57.76
552	B4	4	7	2	7.6	57.76
552	B4	4	8	3	11.4	129.96
552	B4	4	9	2	7.6	57.76
552	B4	4	10	2	7.6	57.76
552	B4	5	1	3	11.4	129.96
552	B4	5	2	2	7.6	57.76
552	B4	5	3	3	11.4	129.96
552	B4	5	4	3	11.4	129.96
552	B4	5	5	2	7.6	57.76
552	B4	5	6	3	11.4	129.96
552	B4	5	7	2	7.6	57.76
552	B4	5	8	3	11.4	129.96
552	B4	5	9	2	7.6	57.76
552	B4	5	10	3	11.4	129.96
552	B5	1	1	2	7.6	57.76
552	B5	1	2	2	7.6	57.76
552	B5	1	3	2	7.6	57.76
552	B5	1	4	2	7.6	57.76
552	B5	1	5	2	7.6	57.76
552	B5	1	6	2	7.6	57.76
552	B5	1	7	2	7.6	57.76
552	B5	1	8	2	7.6	57.76
552	B5	1	9	2	7.6	57.76
552	B5	1	10	2	7.6	57.76
552	B5	2	1	3	11.4	129.96
552	B5	2	2	3	11.4	129.96
552	B5	2	3	3	11.4	129.96
552	B5	2	4	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	B5	2	5	3	11.4	129.96
552	B5	2	6	3	11.4	129.96
552	B5	2	7	3	11.4	129.96
552	B5	2	8	2	7.6	57.76
552	B5	2	9	2	7.6	57.76
552	B5	2	10	2	7.6	57.76
552	B5	3	1	3	11.4	129.96
552	B5	3	2	2	7.6	57.76
552	B5	3	3	2	7.6	57.76
552	B5	3	4	2	7.6	57.76
552	B5	3	5	2	7.6	57.76
552	B5	3	6	2	7.6	57.76
552	B5	3	7	2	7.6	57.76
552	B5	3	8	3	11.4	129.96
552	B5	3	9	3	11.4	129.96
552	B5	3	10	3	11.4	129.96
552	B5	4	1	3	11.4	129.96
552	B5	4	2	3	11.4	129.96
552	B5	4	3	2	7.6	57.76
552	B5	4	4	3	11.4	129.96
552	B5	4	5	3	11.4	129.96
552	B5	4	6	3	11.4	129.96
552	B5	4	7	2	7.6	57.76
552	B5	4	8	2	7.6	57.76
552	B5	4	9	2	7.6	57.76
552	B5	4	10	2	7.6	57.76
552	B5	5	1	3	11.4	129.96
552	B5	5	2	2	7.6	57.76
552	B5	5	3	2	7.6	57.76
552	B5	5	4	3	11.4	129.96
552	B5	5	5	2	7.6	57.76
552	B5	5	6	3	11.4	129.96
552	B5	5	7	2	7.6	57.76
552	B5	5	8	3	11.4	129.96
552	B5	5	9	2	7.6	57.76
552	B5	5	10	2	7.6	57.76
552	C1	1	1	3	11.4	129.96
552	C1	1	2	3	11.4	129.96
552	C1	1	3	3	11.4	129.96
552	C1	1	4	2	7.6	57.76
552	C1	1	5	2	7.6	57.76
552	C1	1	6	3	11.4	129.96
552	C1	1	7	3	11.4	129.96
552	C1	1	8	2	7.6	57.76
552	C1	1	9	2	7.6	57.76
552	C1	1	10	3	11.4	129.96
552	C1	2	1	3	11.4	129.96
552	C1	2	2	3	11.4	129.96
552	C1	2	3	3	11.4	129.96
552	C1	2	4	3	11.4	129.96
552	C1	2	5	3	11.4	129.96
552	C1	2	6	2	7.6	57.76
552	C1	2	7	2	7.6	57.76
552	C1	2	8	2	7.6	57.76
552	C1	2	9	2	7.6	57.76
552	C1	2	10	2	7.6	57.76
552	C1	3	1	3	11.4	129.96
552	C1	3	2	2	7.6	57.76
552	C1	3	3	3	11.4	129.96
552	C1	3	4	3	11.4	129.96
552	C1	3	5	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	C1	3	6	3	11.4	129.96
552	C1	3	7	2	7.6	57.76
552	C1	3	8	3	11.4	129.96
552	C1	3	9	3	11.4	129.96
552	C1	3	10	2	7.6	57.76
552	C1	4	1	3	11.4	129.96
552	C1	4	2	2	7.6	57.76
552	C1	4	3	3	11.4	129.96
552	C1	4	4	3	11.4	129.96
552	C1	4	5	3	11.4	129.96
552	C1	4	6	3	11.4	129.96
552	C1	4	7	2	7.6	57.76
552	C1	4	8	2	7.6	57.76
552	C1	4	9	3	11.4	129.96
552	C1	4	10	2	7.6	57.76
552	C1	5	1	2	7.6	57.76
552	C1	5	2	3	11.4	129.96
552	C1	5	3	3	11.4	129.96
552	C1	5	4	3	11.4	129.96
552	C1	5	5	3	11.4	129.96
552	C1	5	6	2	7.6	57.76
552	C1	5	7	3	11.4	129.96
552	C1	5	8	2	7.6	57.76
552	C1	5	9	3	11.4	129.96
552	C1	5	10	2	7.6	57.76
552	C2	1	1	3	11.4	129.96
552	C2	1	2	2	7.6	57.76
552	C2	1	3	3	11.4	129.96
552	C2	1	4	2	7.6	57.76
552	C2	1	5	2	7.6	57.76
552	C2	1	6	3	11.4	129.96
552	C2	1	7	2	7.6	57.76
552	C2	1	8	3	11.4	129.96
552	C2	1	9	2	7.6	57.76
552	C2	1	10	2	7.6	57.76
552	C2	2	1	3	11.4	129.96
552	C2	2	2	2	7.6	57.76
552	C2	2	3	2	7.6	57.76
552	C2	2	4	3	11.4	129.96
552	C2	2	5	2	7.6	57.76
552	C2	2	6	2	7.6	57.76
552	C2	2	7	2	7.6	57.76
552	C2	2	8	2	7.6	57.76
552	C2	2	9	2	7.6	57.76
552	C2	2	10	2	7.6	57.76
552	C2	3	1	3	11.4	129.96
552	C2	3	2	2	7.6	57.76
552	C2	3	3	2	7.6	57.76
552	C2	3	4	2	7.6	57.76
552	C2	3	5	3	11.4	129.96
552	C2	3	6	2	7.6	57.76
552	C2	3	7	2	7.6	57.76
552	C2	3	8	3	11.4	129.96
552	C2	3	9	3	11.4	129.96
552	C2	3	10	2	7.6	57.76
552	C2	4	1	3	11.4	129.96
552	C2	4	2	3	11.4	129.96
552	C2	4	3	3	11.4	129.96
552	C2	4	4	3	11.4	129.96
552	C2	4	5	3	11.4	129.96
552	C2	4	6	3	11.4	129.96



**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	C2	4	7	3	11.4	129.96
552	C2	4	8	3	11.4	129.96
552	C2	4	9	3	11.4	129.96
552	C2	4	10	3	11.4	129.96
552	C2	5	1	3	11.4	129.96
552	C2	5	2	3	11.4	129.96
552	C2	5	3	3	11.4	129.96
552	C2	5	4	3	11.4	129.96
552	C2	5	5	3	11.4	129.96
552	C2	5	6	3	11.4	129.96
552	C2	5	7	3	11.4	129.96
552	C2	5	8	3	11.4	129.96
552	C2	5	9	3	11.4	129.96
552	C2	5	10	3	11.4	129.96
552	C3	1	1	3	11.4	129.96
552	C3	1	2	3	11.4	129.96
552	C3	1	3	3	11.4	129.96
552	C3	1	4	3	11.4	129.96
552	C3	1	5	3	11.4	129.96
552	C3	1	6	3	11.4	129.96
552	C3	1	7	3	11.4	129.96
552	C3	1	8	3	11.4	129.96
552	C3	1	9	3	11.4	129.96
552	C3	1	10	3	11.4	129.96
552	C3	2	1	3	11.4	129.96
552	C3	2	2	3	11.4	129.96
552	C3	2	3	3	11.4	129.96
552	C3	2	4	3	11.4	129.96
552	C3	2	5	3	11.4	129.96
552	C3	2	6	3	11.4	129.96
552	C3	2	7	3	11.4	129.96
552	C3	2	8	3	11.4	129.96
552	C3	2	9	3	11.4	129.96
552	C3	2	10	3	11.4	129.96
552	C3	3	1	2	7.6	57.76
552	C3	3	2	2	7.6	57.76
552	C3	3	3	3	11.4	129.96
552	C3	3	4	3	11.4	129.96
552	C3	3	5	3	11.4	129.96
552	C3	3	6	3	11.4	129.96
552	C3	3	7	3	11.4	129.96
552	C3	3	8	3	11.4	129.96
552	C3	3	9	3	11.4	129.96
552	C3	3	10	3	11.4	129.96
552	C3	4	1	3	11.4	129.96
552	C3	4	2	2	7.6	57.76
552	C3	4	3	3	11.4	129.96
552	C3	4	4	3	11.4	129.96
552	C3	4	5	3	11.4	129.96
552	C3	4	6	3	11.4	129.96
552	C3	4	7	2	7.6	57.76
552	C3	4	8	2	7.6	57.76
552	C3	4	9	2	7.6	57.76
552	C3	4	10	3	11.4	129.96
552	C3	5	1	3	11.4	129.96
552	C3	5	2	3	11.4	129.96
552	C3	5	3	3	11.4	129.96
552	C3	5	4	3	11.4	129.96
552	C3	5	5	3	11.4	129.96
552	C3	5	6	3	11.4	129.96
552	C3	5	7	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	C3	5	8	3	11.4	129.96
552	C3	5	9	3	11.4	129.96
552	C3	5	10	3	11.4	129.96
552	C4	1	1	3	11.4	129.96
552	C4	1	2	2	7.6	57.76
552	C4	1	3	2	7.6	57.76
552	C4	1	4	3	11.4	129.96
552	C4	1	5	2	7.6	57.76
552	C4	1	6	3	11.4	129.96
552	C4	1	7	3	11.4	129.96
552	C4	1	8	2	7.6	57.76
552	C4	1	9	2	7.6	57.76
552	C4	1	10	3	11.4	129.96
552	C4	2	1	3	11.4	129.96
552	C4	2	2	2	7.6	57.76
552	C4	2	3	2	7.6	57.76
552	C4	2	4	3	11.4	129.96
552	C4	2	5	2	7.6	57.76
552	C4	2	6	3	11.4	129.96
552	C4	2	7	3	11.4	129.96
552	C4	2	8	2	7.6	57.76
552	C4	2	9	2	7.6	57.76
552	C4	2	10	2	7.6	57.76
552	C4	3	1	3	11.4	129.96
552	C4	3	2	2	7.6	57.76
552	C4	3	3	2	7.6	57.76
552	C4	3	4	2	7.6	57.76
552	C4	3	5	3	11.4	129.96
552	C4	3	6	2	7.6	57.76
552	C4	3	7	3	11.4	129.96
552	C4	3	8	2	7.6	57.76
552	C4	3	9	3	11.4	129.96
552	C4	3	10	2	7.6	57.76
552	C4	4	1	3	11.4	129.96
552	C4	4	2	3	11.4	129.96
552	C4	4	3	2	7.6	57.76
552	C4	4	4	2	7.6	57.76
552	C4	4	5	2	7.6	57.76
552	C4	4	6	3	11.4	129.96
552	C4	4	7	2	7.6	57.76
552	C4	4	8	2	7.6	57.76
552	C4	4	9	2	7.6	57.76
552	C4	4	10	2	7.6	57.76
552	C4	5	1	3	11.4	129.96
552	C4	5	2	3	11.4	129.96
552	C4	5	3	2	7.6	57.76
552	C4	5	4	2	7.6	57.76
552	C4	5	5	2	7.6	57.76
552	C4	5	6	3	11.4	129.96
552	C4	5	7	2	7.6	57.76
552	C4	5	8	2	7.6	57.76
552	C4	5	9	2	7.6	57.76
552	C4	5	10	3	11.4	129.96
552	C5	1	1	3	11.4	129.96
552	C5	1	2	3	11.4	129.96
552	C5	1	3	3	11.4	129.96
552	C5	1	4	3	11.4	129.96
552	C5	1	5	3	11.4	129.96
552	C5	1	6	3	11.4	129.96
552	C5	1	7	2	7.6	57.76
552	C5	1	8	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	C5	1	9	3	11.4	129.96
552	C5	1	10	3	11.4	129.96
552	C5	2	1	3	11.4	129.96
552	C5	2	2	2	7.6	57.76
552	C5	2	3	3	11.4	129.96
552	C5	2	4	3	11.4	129.96
552	C5	2	5	3	11.4	129.96
552	C5	2	6	3	11.4	129.96
552	C5	2	7	3	11.4	129.96
552	C5	2	8	3	11.4	129.96
552	C5	2	9	2	7.6	57.76
552	C5	2	10	3	11.4	129.96
552	C5	3	1	3	11.4	129.96
552	C5	3	2	2	7.6	57.76
552	C5	3	3	2	7.6	57.76
552	C5	3	4	2	7.6	57.76
552	C5	3	5	3	11.4	129.96
552	C5	3	6	2	7.6	57.76
552	C5	3	7	3	11.4	129.96
552	C5	3	8	3	11.4	129.96
552	C5	3	9	2	7.6	57.76
552	C5	3	10	3	11.4	129.96
552	C5	4	1	3	11.4	129.96
552	C5	4	2	2	7.6	57.76
552	C5	4	3	3	11.4	129.96
552	C5	4	4	3	11.4	129.96
552	C5	4	5	3	11.4	129.96
552	C5	4	6	3	11.4	129.96
552	C5	4	7	2	7.6	57.76
552	C5	4	8	2	7.6	57.76
552	C5	4	9	2	7.6	57.76
552	C5	4	10	2	7.6	57.76
552	C5	5	1	3	11.4	129.96
552	C5	5	2	2	7.6	57.76
552	C5	5	3	3	11.4	129.96
552	C5	5	4	3	11.4	129.96
552	C5	5	5	2	7.6	57.76
552	C5	5	6	2	7.6	57.76
552	C5	5	7	3	11.4	129.96
552	C5	5	8	2	7.6	57.76
552	C5	5	9	2	7.6	57.76
552	C5	5	10	2	7.6	57.76
552	C6	1	1	3	11.4	129.96
552	C6	1	2	3	11.4	129.96
552	C6	1	3	3	11.4	129.96
552	C6	1	4	3	11.4	129.96
552	C6	1	5	3	11.4	129.96
552	C6	1	6	3	11.4	129.96
552	C6	1	7	2	7.6	57.76
552	C6	1	8	2	7.6	57.76
552	C6	1	9	2	7.6	57.76
552	C6	1	10	2	7.6	57.76
552	C6	2	1	3	11.4	129.96
552	C6	2	2	3	11.4	129.96
552	C6	2	3	3	11.4	129.96
552	C6	2	4	3	11.4	129.96
552	C6	2	5	3	11.4	129.96
552	C6	2	6	3	11.4	129.96
552	C6	2	7	3	11.4	129.96
552	C6	2	8	2	7.6	57.76
552	C6	2	9	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

552	C6	2	10	2	7.6	57.76
552	C6	3	1	3	11.4	129.96
552	C6	3	2	3	11.4	129.96
552	C6	3	3	3	11.4	129.96
552	C6	3	4	3	11.4	129.96
552	C6	3	5	3	11.4	129.96
552	C6	3	6	3	11.4	129.96
552	C6	3	7	2	7.6	57.76
552	C6	3	8	2	7.6	57.76
552	C6	3	9	3	11.4	129.96
552	C6	3	10	3	11.4	129.96
552	C6	4	1	2	7.6	57.76
552	C6	4	2	3	11.4	129.96
552	C6	4	3	3	11.4	129.96
552	C6	4	4	3	11.4	129.96
552	C6	4	5	3	11.4	129.96
552	C6	4	6	3	11.4	129.96
552	C6	4	7	3	11.4	129.96
552	C6	4	8	3	11.4	129.96
552	C6	4	9	3	11.4	129.96
552	C6	4	10	3	11.4	129.96
552	C6	5	1	2	7.6	57.76
552	C6	5	2	3	11.4	129.96
552	C6	5	3	2	7.6	57.76
552	C6	5	4	3	11.4	129.96
552	C6	5	5	2	7.6	57.76
552	C6	5	6	3	11.4	129.96
552	C6	5	7	2	7.6	57.76
552	C6	5	8	3	11.4	129.96
552	C6	5	9	3	11.4	129.96
552	C6	5	10	3	11.4	129.96
1128	A1	1	1	2	7.6	57.76
1128	A1	1	2	1	3.8	14.44
1128	A1	1	3	2	7.6	57.76
1128	A1	1	4	1	3.8	14.44
1128	A1	1	5	2	7.6	57.76
1128	A1	1	6	1	3.8	14.44
1128	A1	1	7	1	3.8	14.44
1128	A1	1	8	2	7.6	57.76
1128	A1	1	9	1	3.8	14.44
1128	A1	1	10	2	7.6	57.76
1128	A1	2	1	2	7.6	57.76
1128	A1	2	2	1	3.8	14.44
1128	A1	2	3	2	7.6	57.76
1128	A1	2	4	1	3.8	14.44
1128	A1	2	5	2	7.6	57.76
1128	A1	2	6	1	3.8	14.44
1128	A1	3	1	2	7.6	57.76
1128	A1	3	2	2	7.6	57.76
1128	A1	3	3	2	7.6	57.76
1128	A1	3	4	2	7.6	57.76
1128	A1	3	5	2	7.6	57.76
1128	A1	3	6	2	7.6	57.76
1128	A1	3	7	2	7.6	57.76
1128	A1	3	8	2	7.6	57.76
1128	A1	3	9	2	7.6	57.76
1128	A1	3	10	2	7.6	57.76
1128	A1	4	1	2	7.6	57.76
1128	A1	4	2	2	7.6	57.76
1128	A1	4	3	2	7.6	57.76
1128	A1	4	4	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	A1	4	5	2	7.6	57.76
1128	A1	4	6	2	7.6	57.76
1128	A1	4	7	2	7.6	57.76
1128	A1	4	8	2	7.6	57.76
1128	A1	4	9	2	7.6	57.76
1128	A1	4	10	2	7.6	57.76
1128	A1	5	1	2	7.6	57.76
1128	A1	5	2	2	7.6	57.76
1128	A1	5	3	2	7.6	57.76
1128	A1	5	4	2	7.6	57.76
1128	A1	5	5	2	7.6	57.76
1128	A1	5	6	2	7.6	57.76
1128	A1	5	7	2	7.6	57.76
1128	A1	5	8	2	7.6	57.76
1128	A1	5	9	2	7.6	57.76
1128	A1	5	10	2	7.6	57.76
1128	A2	1	1	2	7.6	57.76
1128	A2	1	2	2	7.6	57.76
1128	A2	1	3	2	7.6	57.76
1128	A2	1	4	2	7.6	57.76
1128	A2	1	5	2	7.6	57.76
1128	A2	1	6	2	7.6	57.76
1128	A2	1	7	2	7.6	57.76
1128	A2	1	8	2	7.6	57.76
1128	A2	1	9	2	7.6	57.76
1128	A2	1	10	2	7.6	57.76
1128	A2	2	1	2	7.6	57.76
1128	A2	2	2	2	7.6	57.76
1128	A2	2	3	2	7.6	57.76
1128	A2	2	4	2	7.6	57.76
1128	A2	2	5	2	7.6	57.76
1128	A2	2	6	2	7.6	57.76
1128	A2	2	7	2	7.6	57.76
1128	A2	2	8	2	7.6	57.76
1128	A2	2	9	2	7.6	57.76
1128	A2	2	10	2	7.6	57.76
1128	A2	3	1	2	7.6	57.76
1128	A2	3	2	3	11.4	129.96
1128	A2	3	3	3	11.4	129.96
1128	A2	3	4	3	11.4	129.96
1128	A2	3	5	3	11.4	129.96
1128	A2	3	6	2	7.6	57.76
1128	A2	3	7	2	7.6	57.76
1128	A2	3	8	2	7.6	57.76
1128	A2	3	9	2	7.6	57.76
1128	A2	3	10	2	7.6	57.76
1128	A2	4	1	2	7.6	57.76
1128	A2	4	2	2	7.6	57.76
1128	A2	4	3	2	7.6	57.76
1128	A2	4	4	3	11.4	129.96
1128	A2	4	5	3	11.4	129.96
1128	A2	4	6	3	11.4	129.96
1128	A2	4	7	2	7.6	57.76
1128	A2	4	8	2	7.6	57.76
1128	A2	4	9	2	7.6	57.76
1128	A2	4	10	2	7.6	57.76
1128	A2	5	1	2	7.6	57.76
1128	A2	5	2	3	11.4	129.96
1128	A2	5	3	3	11.4	129.96
1128	A2	5	4	3	11.4	129.96
1128	A2	5	5	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	A2	5	6	2	7.6	57.76
1128	A2	5	7	2	7.6	57.76
1128	A2	5	8	2	7.6	57.76
1128	A2	5	9	2	7.6	57.76
1128	A2	5	10	2	7.6	57.76
1128	A3	1	1	2	7.6	57.76
1128	A3	1	2	2	7.6	57.76
1128	A3	1	3	2	7.6	57.76
1128	A3	1	4	2	7.6	57.76
1128	A3	1	5	2	7.6	57.76
1128	A3	1	6	2	7.6	57.76
1128	A3	1	7	2	7.6	57.76
1128	A3	1	8	2	7.6	57.76
1128	A3	1	9	2	7.6	57.76
1128	A3	1	10	2	7.6	57.76
1128	A3	2	1	2	7.6	57.76
1128	A3	2	2	2	7.6	57.76
1128	A3	2	3	2	7.6	57.76
1128	A3	2	4	2	7.6	57.76
1128	A3	2	5	2	7.6	57.76
1128	A3	2	6	2	7.6	57.76
1128	A3	2	7	2	7.6	57.76
1128	A3	2	8	2	7.6	57.76
1128	A3	2	9	2	7.6	57.76
1128	A3	2	10	2	7.6	57.76
1128	A3	3	1	2	7.6	57.76
1128	A3	3	2	2	7.6	57.76
1128	A3	3	3	2	7.6	57.76
1128	A3	3	4	2	7.6	57.76
1128	A3	3	5	2	7.6	57.76
1128	A3	3	6	2	7.6	57.76
1128	A3	3	7	2	7.6	57.76
1128	A3	3	8	2	7.6	57.76
1128	A3	3	9	2	7.6	57.76
1128	A3	3	10	2	7.6	57.76
1128	A3	4	1	2	7.6	57.76
1128	A3	4	2	2	7.6	57.76
1128	A3	4	3	2	7.6	57.76
1128	A3	4	4	2	7.6	57.76
1128	A3	4	5	2	7.6	57.76
1128	A3	4	6	2	7.6	57.76
1128	A3	4	7	2	7.6	57.76
1128	A3	4	8	2	7.6	57.76
1128	A3	4	9	2	7.6	57.76
1128	A3	4	10	2	7.6	57.76
1128	A3	5	1	2	7.6	57.76
1128	A3	5	2	2	7.6	57.76
1128	A3	5	3	2	7.6	57.76
1128	A3	5	4	2	7.6	57.76
1128	A3	5	5	2	7.6	57.76
1128	A3	5	6	2	7.6	57.76
1128	A3	5	7	2	7.6	57.76
1128	A3	5	8	2	7.6	57.76
1128	A3	5	9	2	7.6	57.76
1128	A3	5	10	2	7.6	57.76
1128	A4	1	1	2	7.6	57.76
1128	A4	1	2	2	7.6	57.76
1128	A4	1	3	2	7.6	57.76
1128	A4	1	4	2	7.6	57.76
1128	A4	1	5	2	7.6	57.76
1128	A4	1	6	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	A4	1	7	2	7.6	57.76
1128	A4	1	8	2	7.6	57.76
1128	A4	1	9	2	7.6	57.76
1128	A4	1	10	2	7.6	57.76
1128	A4	2	1	3	11.4	129.96
1128	A4	2	2	3	11.4	129.96
1128	A4	2	3	2	7.6	57.76
1128	A4	2	4	2	7.6	57.76
1128	A4	2	5	2	7.6	57.76
1128	A4	2	6	2	7.6	57.76
1128	A4	2	7	2	7.6	57.76
1128	A4	2	8	2	7.6	57.76
1128	A4	2	9	2	7.6	57.76
1128	A4	2	10	2	7.6	57.76
1128	A4	3	1	3	11.4	129.96
1128	A4	3	2	2	7.6	57.76
1128	A4	3	3	2	7.6	57.76
1128	A4	3	4	2	7.6	57.76
1128	A4	3	5	2	7.6	57.76
1128	A4	3	6	2	7.6	57.76
1128	A4	3	7	2	7.6	57.76
1128	A4	3	8	2	7.6	57.76
1128	A4	3	9	2	7.6	57.76
1128	A4	3	10	2	7.6	57.76
1128	A4	4	1	2	7.6	57.76
1128	A4	4	2	3	11.4	129.96
1128	A4	4	3	3	11.4	129.96
1128	A4	4	4	2	7.6	57.76
1128	A4	4	5	2	7.6	57.76
1128	A4	4	6	2	7.6	57.76
1128	A4	4	7	2	7.6	57.76
1128	A4	4	8	3	11.4	129.96
1128	A4	4	9	2	7.6	57.76
1128	A4	4	10	2	7.6	57.76
1128	A4	5	1	2	7.6	57.76
1128	A4	5	2	2	7.6	57.76
1128	A4	5	3	2	7.6	57.76
1128	A4	5	4	2	7.6	57.76
1128	A4	5	5	2	7.6	57.76
1128	A4	5	6	2	7.6	57.76
1128	A4	5	7	2	7.6	57.76
1128	A4	5	8	2	7.6	57.76
1128	A4	5	9	2	7.6	57.76
1128	A4	5	10	2	7.6	57.76
1128	A5	1	1	2	7.6	57.76
1128	A5	1	2	2	7.6	57.76
1128	A5	1	3	2	7.6	57.76
1128	A5	1	4	2	7.6	57.76
1128	A5	1	5	2	7.6	57.76
1128	A5	1	6	2	7.6	57.76
1128	A5	1	7	2	7.6	57.76
1128	A5	1	8	2	7.6	57.76
1128	A5	1	9	2	7.6	57.76
1128	A5	1	10	2	7.6	57.76
1128	A5	2	1	3	11.4	129.96
1128	A5	2	2	3	11.4	129.96
1128	A5	2	3	3	11.4	129.96
1128	A5	2	4	2	7.6	57.76
1128	A5	2	5	2	7.6	57.76
1128	A5	2	6	3	11.4	129.96
1128	A5	2	7	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	A5	2	8	2	7.6	57.76
1128	A5	2	9	2	7.6	57.76
1128	A5	2	10	2	7.6	57.76
1128	A5	3	1	3	11.4	129.96
1128	A5	3	2	2	7.6	57.76
1128	A5	3	3	2	7.6	57.76
1128	A5	3	4	2	7.6	57.76
1128	A5	3	5	2	7.6	57.76
1128	A5	3	6	2	7.6	57.76
1128	A5	3	7	2	7.6	57.76
1128	A5	3	8	2	7.6	57.76
1128	A5	3	9	2	7.6	57.76
1128	A5	3	10	2	7.6	57.76
1128	A5	4	1	2	7.6	57.76
1128	A5	4	2	2	7.6	57.76
1128	A5	4	3	2	7.6	57.76
1128	A5	4	4	2	7.6	57.76
1128	A5	4	5	2	7.6	57.76
1128	A5	4	6	2	7.6	57.76
1128	A5	5	1	2	7.6	57.76
1128	A5	5	2	2	7.6	57.76
1128	A5	5	3	2	7.6	57.76
1128	A5	5	4	2	7.6	57.76
1128	A5	5	5	2	7.6	57.76
1128	A5	5	6	2	7.6	57.76
1128	A5	5	7	2	7.6	57.76
1128	A5	5	8	2	7.6	57.76
1128	B1	1	1	2	7.6	57.76
1128	B1	1	2	3	11.4	129.96
1128	B1	1	3	3	11.4	129.96
1128	B1	1	4	3	11.4	129.96
1128	B1	1	5	3	11.4	129.96
1128	B1	1	6	3	11.4	129.96
1128	B1	1	7	3	11.4	129.96
1128	B1	1	8	2	7.6	57.76
1128	B1	1	9	2	7.6	57.76
1128	B1	1	10	2	7.6	57.76
1128	B1	2	1	2	7.6	57.76
1128	B1	2	2	2	7.6	57.76
1128	B1	2	3	2	7.6	57.76
1128	B1	2	4	2	7.6	57.76
1128	B1	2	5	2	7.6	57.76
1128	B1	2	6	2	7.6	57.76
1128	B1	2	7	2	7.6	57.76
1128	B1	2	8	2	7.6	57.76
1128	B1	2	9	2	7.6	57.76
1128	B1	2	10	2	7.6	57.76
1128	B1	3	1	2	7.6	57.76
1128	B1	3	2	2	7.6	57.76
1128	B1	3	3	3	11.4	129.96
1128	B1	3	4	3	11.4	129.96
1128	B1	3	5	3	11.4	129.96
1128	B1	3	6	3	11.4	129.96
1128	B1	3	7	3	11.4	129.96
1128	B1	3	8	2	7.6	57.76
1128	B1	3	9	2	7.6	57.76
1128	B1	3	10	2	7.6	57.76
1128	B1	4	1	3	11.4	129.96
1128	B1	4	2	3	11.4	129.96
1128	B1	4	3	3	11.4	129.96
1128	B1	4	4	3	11.4	129.96



**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	B1	4	5	2	7.6	57.76
1128	B1	4	6	2	7.6	57.76
1128	B1	4	7	2	7.6	57.76
1128	B1	4	8	2	7.6	57.76
1128	B1	4	9	2	7.6	57.76
1128	B1	4	10	2	7.6	57.76
1128	B1	5	1	3	11.4	129.96
1128	B1	5	2	2	7.6	57.76
1128	B1	5	3	3	11.4	129.96
1128	B1	5	4	2	7.6	57.76
1128	B1	5	5	3	11.4	129.96
1128	B1	5	6	2	7.6	57.76
1128	B1	5	7	2	7.6	57.76
1128	B1	5	8	2	7.6	57.76
1128	B1	5	9	2	7.6	57.76
1128	B1	5	10	2	7.6	57.76
1128	B2	1	1	2	7.6	57.76
1128	B2	1	2	2	7.6	57.76
1128	B2	1	3	2	7.6	57.76
1128	B2	1	4	2	7.6	57.76
1128	B2	1	5	2	7.6	57.76
1128	B2	1	6	2	7.6	57.76
1128	B2	1	7	2	7.6	57.76
1128	B2	1	8	2	7.6	57.76
1128	B2	1	9	2	7.6	57.76
1128	B2	1	10	2	7.6	57.76
1128	B2	2	1	2	7.6	57.76
1128	B2	2	2	2	7.6	57.76
1128	B2	2	3	2	7.6	57.76
1128	B2	2	4	2	7.6	57.76
1128	B2	2	5	2	7.6	57.76
1128	B2	2	6	2	7.6	57.76
1128	B2	2	7	2	7.6	57.76
1128	B2	2	8	2	7.6	57.76
1128	B2	2	9	2	7.6	57.76
1128	B2	2	10	2	7.6	57.76
1128	B2	3	1	2	7.6	57.76
1128	B2	3	2	2	7.6	57.76
1128	B2	3	3	2	7.6	57.76
1128	B2	3	4	2	7.6	57.76
1128	B2	3	5	2	7.6	57.76
1128	B2	3	6	2	7.6	57.76
1128	B2	3	7	2	7.6	57.76
1128	B2	3	8	2	7.6	57.76
1128	B2	3	9	2	7.6	57.76
1128	B2	3	10	2	7.6	57.76
1128	B2	4	1	2	7.6	57.76
1128	B2	4	2	2	7.6	57.76
1128	B2	4	3	2	7.6	57.76
1128	B2	4	4	2	7.6	57.76
1128	B2	4	5	2	7.6	57.76
1128	B2	4	6	2	7.6	57.76
1128	B2	4	7	2	7.6	57.76
1128	B2	4	8	2	7.6	57.76
1128	B2	4	9	2	7.6	57.76
1128	B2	4	10	2	7.6	57.76
1128	B2	5	1	3	11.4	129.96
1128	B2	5	2	3	11.4	129.96
1128	B2	5	3	2	7.6	57.76
1128	B2	5	4	2	7.6	57.76
1128	B2	5	5	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	B2	5	6	2	7.6	57.76
1128	B2	5	7	2	7.6	57.76
1128	B2	5	8	2	7.6	57.76
1128	B2	5	9	2	7.6	57.76
1128	B2	5	10	2	7.6	57.76
1128	B3	1	1	3	11.4	129.96
1128	B3	1	2	3	11.4	129.96
1128	B3	1	3	3	11.4	129.96
1128	B3	1	4	3	11.4	129.96
1128	B3	1	5	2	7.6	57.76
1128	B3	1	6	2	7.6	57.76
1128	B3	1	7	2	7.6	57.76
1128	B3	1	8	3	11.4	129.96
1128	B3	1	9	2	7.6	57.76
1128	B3	1	10	3	11.4	129.96
1128	B3	2	1	3	11.4	129.96
1128	B3	2	2	3	11.4	129.96
1128	B3	2	3	3	11.4	129.96
1128	B3	2	4	3	11.4	129.96
1128	B3	2	5	3	11.4	129.96
1128	B3	2	6	3	11.4	129.96
1128	B3	2	7	3	11.4	129.96
1128	B3	2	8	3	11.4	129.96
1128	B3	2	9	2	7.6	57.76
1128	B3	2	10	2	7.6	57.76
1128	B3	3	1	3	11.4	129.96
1128	B3	3	2	3	11.4	129.96
1128	B3	3	3	3	11.4	129.96
1128	B3	3	4	3	11.4	129.96
1128	B3	3	5	2	7.6	57.76
1128	B3	3	6	2	7.6	57.76
1128	B3	3	7	2	7.6	57.76
1128	B3	3	8	3	11.4	129.96
1128	B3	3	9	3	11.4	129.96
1128	B3	3	10	3	11.4	129.96
1128	B3	4	1	3	11.4	129.96
1128	B3	4	2	2	7.6	57.76
1128	B3	4	3	2	7.6	57.76
1128	B3	4	4	2	7.6	57.76
1128	B3	4	5	3	11.4	129.96
1128	B3	4	6	2	7.6	57.76
1128	B3	4	7	2	7.6	57.76
1128	B3	4	8	2	7.6	57.76
1128	B3	4	9	2	7.6	57.76
1128	B3	4	10	2	7.6	57.76
1128	B3	5	1	3	11.4	129.96
1128	B3	5	2	2	7.6	57.76
1128	B3	5	3	2	7.6	57.76
1128	B3	5	4	2	7.6	57.76
1128	B3	5	5	3	11.4	129.96
1128	B3	5	6	2	7.6	57.76
1128	B3	5	7	2	7.6	57.76
1128	B3	5	8	2	7.6	57.76
1128	B3	5	9	3	11.4	129.96
1128	B3	5	10	3	11.4	129.96
1128	B4	1	1	3	11.4	129.96
1128	B4	1	2	3	11.4	129.96
1128	B4	1	3	3	11.4	129.96
1128	B4	1	4	2	7.6	57.76
1128	B4	1	5	2	7.6	57.76
1128	B4	1	6	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	B4	1	7	2	7.6	57.76
1128	B4	1	8	2	7.6	57.76
1128	B4	1	9	2	7.6	57.76
1128	B4	1	10	2	7.6	57.76
1128	B4	2	1	3	11.4	129.96
1128	B4	2	2	3	11.4	129.96
1128	B4	2	3	2	7.6	57.76
1128	B4	2	4	2	7.6	57.76
1128	B4	2	5	2	7.6	57.76
1128	B4	2	6	2	7.6	57.76
1128	B4	2	7	2	7.6	57.76
1128	B4	2	8	2	7.6	57.76
1128	B4	2	9	2	7.6	57.76
1128	B4	2	10	2	7.6	57.76
1128	B4	3	1	3	11.4	129.96
1128	B4	3	2	2	7.6	57.76
1128	B4	3	3	3	11.4	129.96
1128	B4	3	4	2	7.6	57.76
1128	B4	3	5	3	11.4	129.96
1128	B4	3	6	2	7.6	57.76
1128	B4	3	7	2	7.6	57.76
1128	B4	3	8	2	7.6	57.76
1128	B4	3	9	2	7.6	57.76
1128	B4	3	10	2	7.6	57.76
1128	B4	4	1	3	11.4	129.96
1128	B4	4	2	3	11.4	129.96
1128	B4	4	3	3	11.4	129.96
1128	B4	4	4	3	11.4	129.96
1128	B4	4	5	3	11.4	129.96
1128	B4	4	6	2	7.6	57.76
1128	B4	4	7	3	11.4	129.96
1128	B4	4	8	2	7.6	57.76
1128	B4	4	9	2	7.6	57.76
1128	B4	4	10	3	11.4	129.96
1128	B4	5	1	2	7.6	57.76
1128	B4	5	2	3	11.4	129.96
1128	B4	5	3	3	11.4	129.96
1128	B4	5	4	2	7.6	57.76
1128	B4	5	5	2	7.6	57.76
1128	B4	5	6	2	7.6	57.76
1128	B4	5	7	2	7.6	57.76
1128	B4	5	8	2	7.6	57.76
1128	B4	5	9	2	7.6	57.76
1128	B4	5	10	2	7.6	57.76
1128	B5	1	1	2	7.6	57.76
1128	B5	1	2	2	7.6	57.76
1128	B5	1	3	2	7.6	57.76
1128	B5	1	4	2	7.6	57.76
1128	B5	1	5	2	7.6	57.76
1128	B5	1	6	2	7.6	57.76
1128	B5	1	7	2	7.6	57.76
1128	B5	1	8	2	7.6	57.76
1128	B5	1	9	2	7.6	57.76
1128	B5	1	10	2	7.6	57.76
1128	B5	2	1	3	11.4	129.96
1128	B5	2	2	3	11.4	129.96
1128	B5	2	3	3	11.4	129.96
1128	B5	2	4	3	11.4	129.96
1128	B5	2	5	3	11.4	129.96
1128	B5	2	6	2	7.6	57.76
1128	B5	2	7	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	B5	2	8	2	7.6	57.76
1128	B5	2	9	2	7.6	57.76
1128	B5	2	10	2	7.6	57.76
1128	B5	3	1	3	11.4	129.96
1128	B5	3	2	3	11.4	129.96
1128	B5	3	3	3	11.4	129.96
1128	B5	3	4	3	11.4	129.96
1128	B5	3	5	2	7.6	57.76
1128	B5	3	6	3	11.4	129.96
1128	B5	3	7	2	7.6	57.76
1128	B5	3	8	3	11.4	129.96
1128	B5	3	9	3	11.4	129.96
1128	B5	3	10	3	11.4	129.96
1128	B5	4	1	3	11.4	129.96
1128	B5	4	2	3	11.4	129.96
1128	B5	4	3	3	11.4	129.96
1128	B5	4	4	2	7.6	57.76
1128	B5	4	5	2	7.6	57.76
1128	B5	4	6	2	7.6	57.76
1128	B5	4	7	3	11.4	129.96
1128	B5	4	8	3	11.4	129.96
1128	B5	4	9	3	11.4	129.96
1128	B5	4	10	3	11.4	129.96
1128	B5	5	1	3	11.4	129.96
1128	B5	5	2	3	11.4	129.96
1128	B5	5	3	3	11.4	129.96
1128	B5	5	4	2	7.6	57.76
1128	B5	5	5	2	7.6	57.76
1128	B5	5	6	3	11.4	129.96
1128	B5	5	7	2	7.6	57.76
1128	B5	5	8	2	7.6	57.76
1128	B5	5	9	2	7.6	57.76
1128	B5	5	10	3	11.4	129.96
1128	B6	1	1	2	7.6	57.76
1128	B6	1	2	2	7.6	57.76
1128	B6	1	3	3	11.4	129.96
1128	B6	1	4	2	7.6	57.76
1128	B6	1	5	2	7.6	57.76
1128	B6	1	6	2	7.6	57.76
1128	B6	1	7	2	7.6	57.76
1128	B6	1	8	2	7.6	57.76
1128	B6	1	9	2	7.6	57.76
1128	B6	1	10	2	7.6	57.76
1128	B6	2	1	2	7.6	57.76
1128	B6	2	2	2	7.6	57.76
1128	B6	2	3	3	11.4	129.96
1128	B6	2	4	2	7.6	57.76
1128	B6	2	5	2	7.6	57.76
1128	B6	2	6	2	7.6	57.76
1128	B6	2	7	2	7.6	57.76
1128	B6	2	8	3	11.4	129.96
1128	B6	2	9	2	7.6	57.76
1128	B6	2	10	2	7.6	57.76
1128	B6	3	1	2	7.6	57.76
1128	B6	3	2	2	7.6	57.76
1128	B6	3	3	3	11.4	129.96
1128	B6	3	4	2	7.6	57.76
1128	B6	3	5	2	7.6	57.76
1128	B6	3	6	2	7.6	57.76
1128	B6	3	7	2	7.6	57.76
1128	B6	3	8	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	B6	3	9	2	7.6	57.76
1128	B6	3	10	2	7.6	57.76
1128	B6	4	1	2	7.6	57.76
1128	B6	4	2	3	11.4	129.96
1128	B6	4	3	3	11.4	129.96
1128	B6	4	4	3	11.4	129.96
1128	B6	4	5	3	11.4	129.96
1128	B6	4	6	3	11.4	129.96
1128	B6	4	7	3	11.4	129.96
1128	B6	4	8	2	7.6	57.76
1128	B6	4	9	2	7.6	57.76
1128	B6	4	10	2	7.6	57.76
1128	B6	5	1	3	11.4	129.96
1128	B6	5	2	2	7.6	57.76
1128	B6	5	3	2	7.6	57.76
1128	B6	5	4	2	7.6	57.76
1128	B6	5	5	2	7.6	57.76
1128	B6	5	6	3	11.4	129.96
1128	B6	5	7	2	7.6	57.76
1128	B6	5	8	2	7.6	57.76
1128	B6	5	9	2	7.6	57.76
1128	B6	5	10	2	7.6	57.76
1128	C1	1	1	2	7.6	57.76
1128	C1	1	2	2	7.6	57.76
1128	C1	1	3	2	7.6	57.76
1128	C1	1	4	2	7.6	57.76
1128	C1	1	5	2	7.6	57.76
1128	C1	1	6	2	7.6	57.76
1128	C1	1	7	2	7.6	57.76
1128	C1	1	8	2	7.6	57.76
1128	C1	1	9	2	7.6	57.76
1128	C1	1	10	2	7.6	57.76
1128	C1	2	1	3	11.4	129.96
1128	C1	2	2	3	11.4	129.96
1128	C1	2	3	3	11.4	129.96
1128	C1	2	4	3	11.4	129.96
1128	C1	2	5	2	7.6	57.76
1128	C1	2	6	3	11.4	129.96
1128	C1	2	7	2	7.6	57.76
1128	C1	2	8	2	7.6	57.76
1128	C1	2	9	3	11.4	129.96
1128	C1	2	10	3	11.4	129.96
1128	C1	3	1	2	7.6	57.76
1128	C1	3	2	3	11.4	129.96
1128	C1	3	3	3	11.4	129.96
1128	C1	3	4	2	7.6	57.76
1128	C1	3	5	2	7.6	57.76
1128	C1	3	6	2	7.6	57.76
1128	C1	3	7	2	7.6	57.76
1128	C1	3	8	3	11.4	129.96
1128	C1	3	9	2	7.6	57.76
1128	C1	3	10	2	7.6	57.76
1128	C1	4	1	3	11.4	129.96
1128	C1	4	2	3	11.4	129.96
1128	C1	4	3	2	7.6	57.76
1128	C1	4	4	2	7.6	57.76
1128	C1	4	5	3	11.4	129.96
1128	C1	4	6	2	7.6	57.76
1128	C1	4	7	3	11.4	129.96
1128	C1	4	8	2	7.6	57.76
1128	C1	4	9	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	C1	4	10	2	7.6	57.76
1128	C1	5	1	3	11.4	129.96
1128	C1	5	2	3	11.4	129.96
1128	C1	5	3	3	11.4	129.96
1128	C1	5	4	3	11.4	129.96
1128	C1	5	5	2	7.6	57.76
1128	C1	5	6	2	7.6	57.76
1128	C1	5	7	2	7.6	57.76
1128	C1	5	8	2	7.6	57.76
1128	C1	5	9	2	7.6	57.76
1128	C1	5	10	2	7.6	57.76
1128	C2	1	1	2	7.6	57.76
1128	C2	1	2	3	11.4	129.96
1128	C2	1	3	3	11.4	129.96
1128	C2	1	4	3	11.4	129.96
1128	C2	1	5	32	121.6	14786.56
1128	C2	1	6	3	11.4	129.96
1128	C2	1	7	2	7.6	57.76
1128	C2	1	8	2	7.6	57.76
1128	C2	1	9	2	7.6	57.76
1128	C2	1	10	2	7.6	57.76
1128	C2	2	1	3	11.4	129.96
1128	C2	2	2	2	7.6	57.76
1128	C2	2	3	2	7.6	57.76
1128	C2	2	4	2	7.6	57.76
1128	C2	2	5	2	7.6	57.76
1128	C2	2	6	2	7.6	57.76
1128	C2	2	7	3	11.4	129.96
1128	C2	2	8	2	7.6	57.76
1128	C2	2	9	2	7.6	57.76
1128	C2	2	10	2	7.6	57.76
1128	C2	3	1	2	7.6	57.76
1128	C2	3	2	2	7.6	57.76
1128	C2	3	3	2	7.6	57.76
1128	C2	3	4	2	7.6	57.76
1128	C2	3	5	2	7.6	57.76
1128	C2	3	6	2	7.6	57.76
1128	C2	3	7	2	7.6	57.76
1128	C2	3	8	2	7.6	57.76
1128	C2	3	9	2	7.6	57.76
1128	C2	3	10	2	7.6	57.76
1128	C2	4	1	3	11.4	129.96
1128	C2	4	2	3	11.4	129.96
1128	C2	4	3	3	11.4	129.96
1128	C2	4	4	2	7.6	57.76
1128	C2	4	5	3	11.4	129.96
1128	C2	4	6	3	11.4	129.96
1128	C2	4	7	2	7.6	57.76
1128	C2	4	8	2	7.6	57.76
1128	C2	4	9	2	7.6	57.76
1128	C2	4	10	2	7.6	57.76
1128	C2	5	1	3	11.4	129.96
1128	C2	5	2	2	7.6	57.76
1128	C2	5	3	3	11.4	129.96
1128	C2	5	4	2	7.6	57.76
1128	C2	5	5	3	11.4	129.96
1128	C2	5	6	3	11.4	129.96
1128	C2	5	7	2	7.6	57.76
1128	C2	5	8	2	7.6	57.76
1128	C2	5	9	3	11.4	129.96
1128	C2	5	10	2	7.6	57.76

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	C3	1	1	3	11.4	129.96
1128	C3	1	2	3	11.4	129.96
1128	C3	1	3	2	7.6	57.76
1128	C3	1	4	3	11.4	129.96
1128	C3	1	5	2	7.6	57.76
1128	C3	1	6	2	7.6	57.76
1128	C3	1	7	2	7.6	57.76
1128	C3	1	8	3	11.4	129.96
1128	C3	1	9	2	7.6	57.76
1128	C3	1	10	2	7.6	57.76
1128	C3	2	1	3	11.4	129.96
1128	C3	2	2	2	7.6	57.76
1128	C3	2	3	3	11.4	129.96
1128	C3	2	4	2	7.6	57.76
1128	C3	2	5	3	11.4	129.96
1128	C3	2	6	2	7.6	57.76
1128	C3	2	7	2	7.6	57.76
1128	C3	2	8	2	7.6	57.76
1128	C3	2	9	2	7.6	57.76
1128	C3	2	10	2	7.6	57.76
1128	C3	3	1	3	11.4	129.96
1128	C3	3	2	3	11.4	129.96
1128	C3	3	3	3	11.4	129.96
1128	C3	3	4	2	7.6	57.76
1128	C3	3	5	3	11.4	129.96
1128	C3	3	6	3	11.4	129.96
1128	C3	3	7	2	7.6	57.76
1128	C3	3	8	2	7.6	57.76
1128	C3	3	9	2	7.6	57.76
1128	C3	3	10	2	7.6	57.76
1128	C3	4	1	3	11.4	129.96
1128	C3	4	2	2	7.6	57.76
1128	C3	4	3	3	11.4	129.96
1128	C3	4	4	2	7.6	57.76
1128	C3	4	5	2	7.6	57.76
1128	C3	4	6	2	7.6	57.76
1128	C3	4	7	3	11.4	129.96
1128	C3	4	8	2	7.6	57.76
1128	C3	4	9	2	7.6	57.76
1128	C3	4	10	2	7.6	57.76
1128	C3	5	1	3	11.4	129.96
1128	C3	5	2	3	11.4	129.96
1128	C3	5	3	3	11.4	129.96
1128	C3	5	4	3	11.4	129.96
1128	C3	5	5	2	7.6	57.76
1128	C3	5	6	3	11.4	129.96
1128	C3	5	7	3	11.4	129.96
1128	C3	5	8	3	11.4	129.96
1128	C3	5	9	3	11.4	129.96
1128	C3	5	10	3	11.4	129.96
1128	C4	1	1	4	15.2	231.04
1128	C4	1	2	3	11.4	129.96
1128	C4	1	3	2	7.6	57.76
1128	C4	1	4	3	11.4	129.96
1128	C4	1	5	3	11.4	129.96
1128	C4	1	6	3	11.4	129.96
1128	C4	1	7	2	7.6	57.76
1128	C4	1	8	3	11.4	129.96
1128	C4	1	9	3	11.4	129.96
1128	C4	1	10	3	11.4	129.96
1128	C4	2	1	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	C4	2	2	3	11.4	129.96
1128	C4	2	3	3	11.4	129.96
1128	C4	2	4	2	7.6	57.76
1128	C4	2	5	2	7.6	57.76
1128	C4	2	6	3	11.4	129.96
1128	C4	2	7	3	11.4	129.96
1128	C4	2	8	3	11.4	129.96
1128	C4	2	9	3	11.4	129.96
1128	C4	2	10	3	11.4	129.96
1128	C5	1	1	3	11.4	129.96
1128	C5	1	2	3	11.4	129.96
1128	C5	1	3	3	11.4	129.96
1128	C5	1	4	3	11.4	129.96
1128	C5	1	5	3	11.4	129.96
1128	C5	1	6	3	11.4	129.96
1128	C5	1	7	3	11.4	129.96
1128	C5	1	8	3	11.4	129.96
1128	C5	1	9	3	11.4	129.96
1128	C5	1	10	3	11.4	129.96
1128	C5	2	1	3	11.4	129.96
1128	C5	2	2	3	11.4	129.96
1128	C5	2	3	3	11.4	129.96
1128	C5	2	4	3	11.4	129.96
1128	C5	2	5	3	11.4	129.96
1128	C5	2	6	3	11.4	129.96
1128	C5	2	7	3	11.4	129.96
1128	C5	2	8	3	11.4	129.96
1128	C5	2	9	3	11.4	129.96
1128	C5	2	10	3	11.4	129.96
1128	C5	3	1	4	15.2	231.04
1128	C5	3	2	4	15.2	231.04
1128	C5	3	3	3	11.4	129.96
1128	C5	3	4	3	11.4	129.96
1128	C5	3	5	2	7.6	57.76
1128	C5	3	6	3	11.4	129.96
1128	C5	3	7	3	11.4	129.96
1128	C5	3	8	3	11.4	129.96
1128	C5	3	9	3	11.4	129.96
1128	C5	3	10	3	11.4	129.96
1128	C5	4	1	3	11.4	129.96
1128	C5	4	2	2	7.6	57.76
1128	C5	4	3	3	11.4	129.96
1128	C5	4	4	2	7.6	57.76
1128	C5	4	5	2	7.6	57.76
1128	C5	4	6	2	7.6	57.76
1128	C5	4	7	3	11.4	129.96
1128	C5	4	8	2	7.6	57.76
1128	C5	4	9	2	7.6	57.76
1128	C5	4	10	2	7.6	57.76
1128	C5	5	1	3	11.4	129.96
1128	C5	5	2	3	11.4	129.96
1128	C5	5	3	3	11.4	129.96
1128	C5	5	4	3	11.4	129.96
1128	C5	5	5	3	11.4	129.96
1128	C5	5	6	3	11.4	129.96
1128	C5	5	7	3	11.4	129.96
1128	C5	5	8	3	11.4	129.96
1128	C5	5	9	3	11.4	129.96
1128	C5	5	10	3	11.4	129.96
1128	C6	1	1	4	15.2	231.04
1128	C6	1	2	3	11.4	129.96



**Chapter 3 – Gill Chloride Cell Size**  
(where A=0 ppt, B=15 ppt and C=32 ppt)

1128	C6	1	3	2	7.6	57.76
1128	C6	1	4	3	11.4	129.96
1128	C6	1	5	2	7.6	57.76
1128	C6	1	6	2	7.6	57.76
1128	C6	1	7	2	7.6	57.76
1128	C6	1	8	2	7.6	57.76
1128	C6	1	9	2	7.6	57.76
1128	C6	1	10	2	7.6	57.76
1128	C6	2	1	3	11.4	129.96
1128	C6	2	2	3	11.4	129.96
1128	C6	2	3	3	11.4	129.96
1128	C6	2	4	3	11.4	129.96
1128	C6	2	5	3	11.4	129.96
1128	C6	2	6	3	11.4	129.96
1128	C6	2	7	3	11.4	129.96
1128	C6	2	8	3	11.4	129.96
1128	C6	2	9	3	11.4	129.96
1128	C6	2	10	3	11.4	129.96
1128	C6	3	1	3	11.4	129.96
1128	C6	3	2	3	11.4	129.96
1128	C6	3	3	3	11.4	129.96
1128	C6	3	4	3	11.4	129.96
1128	C6	3	5	3	11.4	129.96
1128	C6	3	6	3	11.4	129.96
1128	C6	3	7	3	11.4	129.96
1128	C6	3	8	3	11.4	129.96
1128	C6	3	9	3	11.4	129.96
1128	C6	3	10	3	11.4	129.96
1128	C6	4	1	3	11.4	129.96
1128	C6	4	2	3	11.4	129.96
1128	C6	4	3	3	11.4	129.96
1128	C6	4	4	3	11.4	129.96
1128	C6	4	5	3	11.4	129.96
1128	C6	4	6	3	11.4	129.96
1128	C6	4	7	3	11.4	129.96
1128	C6	4	8	3	11.4	129.96
1128	C6	4	9	3	11.4	129.96
1128	C6	4	10	3	11.4	129.96
1128	C6	5	1	3	11.4	129.96
1128	C6	5	2	3	11.4	129.96
1128	C6	5	3	3	11.4	129.96
1128	C6	5	4	3	11.4	129.96
1128	C6	5	5	3	11.4	129.96
1128	C6	5	6	3	11.4	129.96
1128	C6	5	7	3	11.4	129.96
1128	C6	5	8	3	11.4	129.96
1128	C6	5	9	3	11.4	129.96
1128	C6	5	10	3	11.4	129.96

**Chapter 3 – Gill Chloride Cell Density**  
(where A= 0 ppt, B= 15 ppt and C= 32 ppt)

Time	Group	Area Count	CC count	Count Surface Area (mm2)
0	A1	1	38	14.44
0	A1	2	18	6.84
0	A1	3	34	12.92
0	A1	4	28	10.64
0	A1	5	20	7.6
0	A2	1	20	7.6
0	A2	2	12	4.56
0	A2	3	14	5.32
0	A2	4	17	6.46
0	A2	5	22	8.36
0	A3	1	8	3.04
0	A3	2	18	6.84
0	A3	3	13	4.94
0	A3	4	18	6.84
0	A3	5	12	4.56
0	A4	1	24	9.12
0	A4	2	13	4.94
0	A4	3	25	9.5
0	A4	4	14	5.32
0	A4	5	21	7.98
0	A5	1	13	4.94
0	A5	2	7	2.66
0	A5	3	7	2.66
0	A5	4	9	3.42
0	A5	5	13	4.94
0	A6	1	11	4.18
0	A6	2	8	3.04
0	A6	3	6	2.28
0	A6	4	13	4.94
0	A6	5	12	4.56
0	B1	1	17	6.46
0	B1	2	14	5.32
0	B1	3	11	4.18
0	B1	4	14	5.32
0	B1	5	8	3.04
0	B2	1	15	5.7
0	B2	2	13	4.94
0	B2	3	21	7.98
0	B2	4	19	7.22
0	B2	5	14	5.32
0	B3	1	22	8.36
0	B3	2	18	6.84
0	B3	3	19	7.22
0	B3	4	20	7.6
0	B3	5	21	7.98
0	B4	1	14	5.32
0	B4	2	18	6.84
0	B4	3	26	9.88

**Chapter 3 – Gill Chloride Cell Density**  
(where A= 0 ppt, B= 15 ppt and C= 32 ppt)

0	B4	4	21	7.98
0	B4	5	13	4.94
0	B5	1	38	14.44
0	B5	2	21	7.98
0	B5	3	16	6.08
0	B5	4	27	10.26
0	B5	5	21	7.98
0	B6	1	31	11.78
0	B6	2	23	8.74
0	B6	3	29	11.02
0	B6	4	16	6.08
0	B6	5	26	9.88
0	C1	1	18	6.84
0	C1	2	16	6.08
0	C1	3	20	7.6
0	C1	4	15	5.7
0	C1	5	26	9.88
0	C2	1	24	9.12
0	C2	2	32	12.16
0	C2	3	24	9.12
0	C2	4	26	9.88
0	C2	5	25	9.5
0	C3	1	33	12.54
0	C3	2	29	11.02
0	C3	3	20	7.6
0	C3	4	24	9.12
0	C3	5	22	8.36
0	C4	1	33	12.54
0	C4	2	24	9.12
0	C4	3	20	7.6
0	C4	4	30	11.4
0	C4	5	18	6.84
0	C5	1	29	11.02
0	C5	2	40	15.2
0	C5	3	27	10.26
0	C5	4	29	11.02
0	C5	5	20	7.6
0	C6	1	15	5.7
0	C6	2	14	5.32
0	C6	3	11	4.18
0	C6	4	9	3.42
0	C6	5	6	2.28
8	A1	1	13	4.94
8	A1	2	17	6.46
8	A1	3	22	8.36
8	A1	4	26	9.88
8	A1	5	18	6.84
8	A2	1	23	8.74
8	A2	2	21	7.98
8	A2	3	17	6.46

**Chapter 3 – Gill Chloride Cell Density**  
(where A= 0 ppt, B= 15 ppt and C= 32 ppt)

8	A2	4	18	6.84
8	A2	5	20	7.6
8	A3	1	18	6.84
8	A3	2	25	9.5
8	A3	3	14	5.32
8	A3	4	20	7.6
8	A3	5	15	5.7
8	A4	1	24	9.12
8	A4	2	18	6.84
8	A4	3	27	10.26
8	A4	4	18	6.84
8	A4	5	14	5.32
8	A5	1	29	11.02
8	A5	2	20	7.6
8	A5	3	25	9.5
8	A5	4	26	9.88
8	A5	5	25	9.5
8	A6	1	33	12.54
8	A6	2	28	10.64
8	A6	3	21	7.98
8	A6	4	20	7.6
8	A6	5	17	6.46
8	B1	1	20	7.6
8	B1	2	19	7.22
8	B1	3	14	5.32
8	B1	4	16	6.08
8	B1	5	16	6.08
8	B2	1	25	9.5
8	B2	2	11	4.18
8	B2	3	9	3.42
8	B2	4	14	5.32
8	B2	5	20	7.6
8	B3	1	21	7.98
8	B3	2	22	8.36
8	B3	3	18	6.84
8	B3	4	26	9.88
8	B3	5	24	9.12
8	B4	1	20	7.6
8	B4	2	24	9.12
8	B4	3	22	8.36
8	B4	4	21	7.98
8	B4	5	18	6.84
8	B5	1	21	7.98
8	B5	2	11	4.18
8	B5	3	27	10.26
8	B5	4	16	6.08
8	B5	5	16	6.08
8	C1	1	26	9.88
8	C1	2	30	11.4
8	C1	3	22	8.36

**Chapter 3 – Gill Chloride Cell Density**  
(where A= 0 ppt, B= 15 ppt and C= 32 ppt)

8	C1	4	23	8.74
8	C1	5	20	7.6
8	C2	1	10	3.8
8	C2	2	10	3.8
8	C2	3	13	4.94
8	C2	4	10	3.8
8	C2	5	9	3.42
8	C3	1	18	6.84
8	C3	2	17	6.46
8	C3	3	16	6.08
8	C3	4	15	5.7
8	C3	5	18	6.84
8	C4	1	19	7.22
8	C4	2	18	6.84
8	C4	3	16	6.08
8	C4	4	18	6.84
8	C4	5	17	6.46
552	A1	1	31	11.78
552	A1	2	20	7.6
552	A1	3	24	9.12
552	A1	4	32	12.16
552	A1	5	19	7.22
552	A2	1	10	3.8
552	A2	2	19	7.22
552	A2	3	12	4.56
552	A2	4	6	2.28
552	A2	5	15	5.7
552	A3	1	16	6.08
552	A3	2	12	4.56
552	A3	3	4	1.52
552	A3	4	14	5.32
552	A3	5	11	4.18
552	A4	1	11	4.18
552	A4	2	11	4.18
552	A4	3	6	2.28
552	A4	4	10	3.8
552	A4	5	11	4.18
552	A5	1	15	5.7
552	A5	2	4	1.52
552	A5	3	10	3.8
552	A5	4	6	2.28
552	A5	5	6	2.28
552	B1	1	14	5.32
552	B1	2	14	5.32
552	B1	3	16	6.08
552	B1	4	23	8.74
552	B1	5	28	10.64
552	B2	1	34	12.92
552	B2	2	28	10.64
552	B2	3	25	9.5

**Chapter 3 – Gill Chloride Cell Density**  
(where A= 0 ppt, B= 15 ppt and C= 32 ppt)

552	B2	4	23	8.74
552	B2	5	20	7.6
552	B3	1	23	8.74
552	B3	2	23	8.74
552	B3	3	24	9.12
552	B3	4	26	9.88
552	B3	5	25	9.5
552	B4	1	28	10.64
552	B4	2	26	9.88
552	B4	3	31	11.78
552	B4	4	30	11.4
552	B4	5	32	12.16
552	B5	1	28	10.64
552	B5	2	24	9.12
552	B5	3	21	7.98
552	B5	4	22	8.36
552	B5	5	14	5.32
552	C1	1	14	5.32
552	C1	2	14	5.32
552	C1	3	11	4.18
552	C1	4	16	6.08
552	C1	5	12	4.56
552	C2	1	12	4.56
552	C2	2	12	4.56
552	C2	3	20	7.6
552	C2	4	21	7.98
552	C2	5	15	5.7
552	C3	1	26	9.88
552	C3	2	34	12.92
552	C3	3	20	7.6
552	C3	4	27	10.26
552	C3	5	23	8.74
552	C4	1	20	7.6
552	C4	2	15	5.7
552	C4	3	20	7.6
552	C4	4	21	7.98
552	C4	5	21	7.98
552	C5	1	25	9.5
552	C5	2	20	7.6
552	C5	3	24	9.12
552	C5	4	20	7.6
552	C5	5	18	6.84
552	C6	1	22	8.36
552	C6	2	26	9.88
552	C6	3	21	7.98
552	C6	4	18	6.84
552	C6	5	19	7.22
1128	A1	1	10	3.8
1128	A1	2	6	2.28
1128	A1	3	12	4.56

**Chapter 3 – Gill Chloride Cell Density**  
(where A= 0 ppt, B= 15 ppt and C= 32 ppt)

1128	A1	4	18	6.84
1128	A1	5	12	4.56
1128	A2	1	13	4.94
1128	A2	2	14	5.32
1128	A2	3	17	6.46
1128	A2	4	22	8.36
1128	A2	5	20	7.6
1128	A3	1	21	7.98
1128	A3	2	14	5.32
1128	A3	3	16	6.08
1128	A3	4	12	4.56
1128	A3	5	17	6.46
1128	A4	1	18	6.84
1128	A4	2	16	6.08
1128	A4	3	16	6.08
1128	A4	4	22	8.36
1128	A4	5	12	4.56
1128	A5	1	10	3.8
1128	A5	2	17	6.46
1128	A5	3	14	5.32
1128	A5	4	6	2.28
1128	A5	5	8	3.04
1128	B1	1	17	6.46
1128	B1	2	10	3.8
1128	B1	3	18	6.84
1128	B1	4	20	7.6
1128	B1	5	22	8.36
1128	B2	1	10	3.8
1128	B2	2	11	4.18
1128	B2	3	12	4.56
1128	B2	4	16	6.08
1128	B2	5	20	7.6
1128	B3	1	24	9.12
1128	B3	2	32	12.16
1128	B3	3	36	13.68
1128	B3	4	23	8.74
1128	B3	5	35	13.3
1128	B4	1	14	5.32
1128	B4	2	21	7.98
1128	B4	3	18	6.84
1128	B4	4	23	8.74
1128	B4	5	20	7.6
1128	B5	1	19	7.22
1128	B5	2	15	5.7
1128	B5	3	22	8.36
1128	B5	4	16	6.08
1128	B5	5	23	8.74
1128	B6	1	18	6.84
1128	B6	2	16	6.08
1128	B6	3	20	7.6

**Chapter 3** – Gill Chloride Cell Density  
(where A= 0 ppt, B= 15 ppt and C= 32 ppt)

1128	B6	4	20	7.6
1128	B6	5	17	6.46
1128	C1	1	12	4.56
1128	C1	2	29	11.02
1128	C1	3	22	8.36
1128	C1	4	15	5.7
1128	C1	5	15	5.7
1128	C2	1	16	6.08
1128	C2	2	12	4.56
1128	C2	3	14	5.32
1128	C2	4	25	9.5
1128	C2	5	18	6.84
1128	C3	1	18	6.84
1128	C3	2	16	6.08
1128	C3	3	16	6.08
1128	C3	4	18	6.84
1128	C3	5	22	8.36
1128	C4	1	16	6.08
1128	C4	2	16	6.08
1128	C5	1	20	7.6
1128	C5	2	22	8.36
1128	C5	3	30	11.4
1128	C5	4	20	7.6
1128	C5	5	22	8.36
1128	C6	1	24	9.12
1128	C6	2	22	8.36
1128	C6	3	28	10.64
1128	C6	4	26	9.88
1128	C6	5	23	8.74



### Chapter 3 – Gill Chloride Cell Na<sup>+</sup> – K<sup>+</sup> ATPase Enzyme Activity

Sample	ATPase	ATP R	ODA	ODA means	ODB	PROT	Route	Salinity
1	10.08	1.91	45.226		7.2	11.317	IM	0
2	9.25	1.91	32.417		5.553	8.712	IM	0
3	11.65	2.25	46.122		7.466	9.954	IM	0
4	10.87	1.92	43.229		6.488	10.136	IM	0
5	12.30	2.20	34.816	40.362	5.271	7.204	IM	0
6	9.46	2.22	32.879		6.24	8.448	IM	15
7	8.48	1.92	21.44		3.952	6.19	IM	15
8	7.33	2.54	21.926		5.639	6.668	IM	15
9	7.54	2.18	19.557		4.391	6.031	IM	15
10	8.42	1.91	28.187		5.216	8.183	IM	15
11	8.72	2.84	45.93	28.319833	11.279	11.924	IM	15
12	11.57	2.25	25.01		4.067	5.432	IM	32
13	10.66	2.94	41.467		8.972	9.145	IM	32
14	18.87	2.34	55.524		6.126	7.855	IM	32
15	7.93	2.86	21.377		5.667	5.947	IM	32
16	13.23	2.30	47.621		7.059	9.201	IM	32
17	7.39	2.66	22.301	35.55	5.903	6.657	IM	32
18	3.64	2.12	19.235		7.082	10.005	PO	0
19	4.23	2.75	25.258		9.958	10.844	PO	0
20	5.67	2.90	25.774		8.713	9.022	PO	0
21	6.47	3.02	28.098		8.941	8.878	PO	0
22	4.81	2.37	15.293		5.051	6.392	PO	0
23	9.75	3.01	49.07	27.121333	11.572	11.539	PO	0
24	4.51	3.03	30.451		12.221	12.113	PO	15
25	2.41	2.01	5.383		2.444	3.653	PO	15
26	1.93	1.97	5.579		2.814	4.292	PO	15
27	4.30	2.24	16.248		5.573	7.448	PO	15
28	3.75	1.77	9.916		3.176	5.389	PO	15
29	7.89	3.67	12.074	13.275167	3.836	3.132	PO	15
30	12.88	2.83	36.133		6.517	6.898	PO	32
31	8.08	2.04	29.994		6.054	8.886	PO	32
32	3.83	2.08	11.28		3.971	5.719	PO	32
33	5.00	1.82	12.728	22.53375	3.394	5.6	PO	32

### Chapter 3 – IM Plasma Pharmacokinetic Data

Salinity	Fish	Time	PlasmaOTC
0	1624	0.25	1.664
0	1599	0.25	2.084
0	1115	0.25	0.493
0	1598	0.25	0.768
0	1120	0.25	0.691
0	1094	0.25	0.628
0	1095	0.5	1.219
0	1092	0.5	2.044
0	1089	0.5	10.93
0	1426	0.5	2.602
0	1046	0.5	3.682
0	1081	0.5	8.635
0	1114	1	2.899
0	1589	1	
0	1579	1	0.499
0	1134	1	0.973
0	1586	1	0.309
0	1108	1	0.374
0	1109	2	4.062
0	1113	2	0.606
0	1583	2	3.829
0	1049	2	0
0	1111	2	0.232
0	1112	2	2.631
0	1591	4	1.049
0	1580	4	1.265
0	1569	4	2.446
0	1575	4	1.481
0	1573	4	4.663
0	1570	4	4.263
0	1585	8	1.652
0	1594	8	0.266
0	1582	8	1.727
0	1574	8	0.144
0	1620	8	2.109
0	1126	8	1.647
0	1581	16	1.028
0	1571	16	4.938
0	1578	16	3.489
0	1593	16	1.627
0	1595	16	5.568
0	1110	16	10.286
0	1117	24	0.845
0	1116	24	1.527
0	1118	24	1.658
0	1121	24	10.316
0	1093	24	1.215
0	1430	24	11.372
0	1122	48	0
0	1077	48	0
0	1076	48	0.074
0	1088	48	0
0	1091	48	0.54

### Chapter 3 – IM Plasma Pharmacokinetic Data

0	1630	48	0
0	1576	72	0.606
0	1622	72	1.152
0	1577	72	0.644
0	1128	72	0.835
0	1584	72	0
0	1621	72	0.699
0	1083	120	1.281
0	1045	120	0.55
0	1084	120	0.281
0	1090	120	1.911
0	1079	120	0.474
0	1087	120	0.529
0	1624	168	12.723
0	1599	168	6.365
0	1115	168	0.706
0	1598	168	8.925
0	1120	168	12.658
0	1094	168	5.801
0	1095	216	2.062
0	1092	216	2.593
0	1089	216	4.153
0	1426	216	4.544
0	1046	216	1.675
0	1081	216	6.323
0	1114	264	0.327
0	1589	264	0.477
0	1579	264	0.041
0	1134	264	5.453
0	1586	264	0.828
0	1108	264	0.42
0	1109	312	3.236
0	1113	312	6.876
0	1583	312	5.47
0	1049	312	3.651
0	1111	312	3.816
0	1112	312	2.59
0	1591	360	1.668
0	1580	360	0.223
0	1569	360	2.633
0	1575	360	1.274
0	1573	360	1.136
0	1570	360	1.044
0	1585	408	4.977
0	1594	408	2.862
0	1582	408	5.015
0	1574	408	4.454
0	1620	408	6.302
0	1126	408	5.45
0	1581	456	0.511
0	1571	456	0.937
0	1578	456	0.099
0	1593	456	1.291
0	1595	456	0.509

### Chapter 3 – IM Plasma Pharmacokinetic Data

0	1110	456	0.948
0	1117	504	1.845
0	1116	504	1.473
0	1118	504	0.542
0	1121	504	4.535
0	1093	504	1.074
0	1430	504	1.05
0	1122	552	0.172
0	1077	552	0.434
0	1076	552	0.325
0	1088	552	0.293
0	1091	552	0.534
0	1630	552	0.429
0	1576	600	1.92
0	1622	600	
0	1577	600	1.076
0	1128	600	1.697
0	1584	600	5.288
0	1621	600	1.397
0	1083	648	2.402
0	1045	648	1.043
0	1084	648	1.888
0	1090	648	2.601
0	1079	648	2.093
0	1087	648	3.022
0	1624	696	0.555
0	1599	696	0.818
0	1115	696	0.157
0	1598	696	0.997
0	1120	696	2.011
0	1094	696	1.258
0	1095	744	
0	1092	744	2.573
0	1089	744	0.379
0	1426	744	0.406
0	1046	744	0.25
0	1081	744	0.547
0	1114	792	1.101
0	1589	792	1.02
0	1579	792	0.738
0	1134	792	3.721
0	1586	792	1.944
0	1108	792	1.98
0	1109	840	0.702
0	1113	840	1.147
0	1583	840	0.808
0	1049	840	0.59
0	1111	840	0.691
0	1112	840	0.54
0	1591	888	0.234
0	1580	888	0.372
0	1569	888	0.541
0	1575	888	0.427
0	1573	888	0.408

**Chapter 3 – IM Plasma Pharmacokinetic Data**

0	1570	888	0.332
0	1585	936	
0	1594	936	0.45
0	1582	936	1.549
0	1574	936	1.834
0	1620	936	2.059
0	1126	936	1.834
0	1581	984	0.379
0	1571	984	0.373
0	1578	984	
0	1593	984	0
0	1595	984	0.288
0	1110	984	0.237
0	1117	1032	0.231
0	1116	1032	0.844
0	1118	1032	0.402
0	1121	1032	0.669
0	1093	1032	0.522
0	1430	1032	0.239
0	1122	1080	0.284
0	1077	1080	
0	1076	1080	
0	1088	1080	0.749
0	1091	1080	0.215
0	1630	1080	0.875
0	1576	1128	0.057
0	1622	1128	
0	1577	1128	0.101
0	1128	1128	0.271
0	1584	1128	0.157
0	1621	1128	0.247
15	1069	0.25	9.653
15	1488	0.25	2.636
15	1051	0.25	0.556
15	1042	0.25	2.844
15	1490	0.25	2.366
15	1441	0.25	0.625
15	1489	0.5	2.753
15	1062	0.5	2.38
15	1500	0.5	8.374
15	1023	0.5	3.244
15	1485	0.5	0.698
15	1025	0.5	2.462
15	1016	1	7.344
15	1627	1	0.483
15	1024	1	0.794
15	1135	1	0.752
15	1478	1	2.218
15	1125	1	8.256
15	1482	2	1.133
15	1480	2	1.924
15	1476	2	0.462
15	1002	2	0.146
15	1127	2	0.064

### Chapter 3 – IM Plasma Pharmacokinetic Data

15	1050	2	2.594
15	1626	4	6.345
15	1434	4	4.012
15	1433	4	1.434
15	1136	4	2.263
15	1479	4	7.433
15	1124	4	9.254
15	1072	8	0.396
15	1009	8	0.967
15	1017	8	2.501
15	1071	8	0.371
15	1018	8	1.581
15	1021	8	0.312
15	1063	16	1.235
15	1058	16	1.125
15	1064	16	3.406
15	1070	16	0.39
15	1096	16	0.678
15	1052	16	2.371
15	1483	24	8.085
15	1132	24	0.346
15	1498	24	
15	1486	24	0.327
15	1440	24	1.655
15	1067	24	0.807
15	1013	48	0
15	1007	48	
15	1011	48	1.425
15	1477	48	1.471
15	1010	48	0.899
15	1481	48	1.334
15	1074	72	0.67
15	1438	72	1.78
15	1020	72	1.042
15	1014	72	0
15	1130	72	1.348
15	1129	72	0.45
15	1098	120	1.529
15	1491	120	6.713
15	1066	120	1.008
15	1495	120	1.99
15	1497	120	1.048
15	1644	120	
15	1069	168	6.124
15	1488	168	4.242
15	1051	168	6.187
15	1042	168	3.634
15	1490	168	11.358
15	1441	168	4.963
15	1489	216	2.293
15	1062	216	3.064
15	1500	216	7.046
15	1023	216	4.014
15	1485	216	1.456

### Chapter 3 – IM Plasma Pharmacokinetic Data

15	1025	216	2.791
15	1016	264	4.362
15	1627	264	1.092
15	1024	264	10.893
15	1135	264	0.333
15	1478	264	5.776
15	1125	264	1.13
15	1482	312	16.167
15	1480	312	3.027
15	1476	312	15.919
15	1002	312	5.257
15	1127	312	9.153
15	1050	312	0.944
15	1626	360	2.603
15	1434	360	7.534
15	1433	360	0.749
15	1136	360	1.235
15	1479	360	1.58
15	1124	360	8.138
15	1072	408	6.091
15	1009	408	6.444
15	1017	408	6.281
15	1071	408	7.834
15	1018	408	14.607
15	1021	408	1.778
15	1063	456	0.698
15	1058	456	0.474
15	1064	456	1.091
15	1070	456	0.66
15	1096	456	0.695
15	1052	456	0.359
15	1483	504	0.294
15	1132	504	0.085
15	1498	504	0.423
15	1486	504	2.945
15	1440	504	0.472
15	1067	504	0.536
15	1013	552	0.083
15	1007	552	0.547
15	1011	552	0.155
15	1477	552	0.189
15	1010	552	0.539
15	1481	552	0.638
15	1074	600	2.232
15	1438	600	1.579
15	1020	600	1.523
15	1014	600	1.975
15	1130	600	4.962
15	1129	600	0.376
15	1098	648	1.355
15	1491	648	2.849
15	1066	648	1.462
15	1495	648	3.803
15	1497	648	2.822

### Chapter 3 – IM Plasma Pharmacokinetic Data

15	1644	648	
15	1069	696	0.847
15	1488	696	0.643
15	1051	696	0.594
15	1042	696	0.071
15	1490	696	1.788
15	1441	696	0.924
15	1489	744	0.993
15	1062	744	2.677
15	1500	744	3.291
15	1023	744	1.575
15	1485	744	0.48
15	1025	744	0.22
15	1016	792	6.039
15	1627	792	1.312
15	1024	792	6.018
15	1135	792	1.69
15	1478	792	1.336
15	1125	792	1.176
15	1482	840	2.601
15	1480	840	0.323
15	1476	840	7.282
15	1002	840	0.791
15	1127	840	2.755
15	1050	840	0.272
15	1626	888	0.591
15	1434	888	1.391
15	1433	888	0.482
15	1136	888	0.422
15	1479	888	0.393
15	1124	888	1.329
15	1072	936	1.974
15	1009	936	
15	1017	936	2.076
15	1071	936	1.467
15	1018	936	0.965
15	1021	936	0.276
15	1063	984	0.346
15	1058	984	0.141
15	1064	984	0.158
15	1070	984	0.909
15	1096	984	0.43
15	1052	984	0.26
15	1483	1032	0.658
15	1132	1032	0.27
15	1498	1032	0.482
15	1486	1032	1.261
15	1440	1032	0.55
15	1067	1032	0.426
15	1013	1080	0.791
15	1007	1080	0.675
15	1011	1080	0.713
15	1477	1080	0.68
15	1010	1080	1.682



### Chapter 3 – IM Plasma Pharmacokinetic Data

15	1481	1080	0.474
15	1074	1128	0.169
15	1438	1128	0.384
15	1020	1128	0.234
15	1014	1128	0.524
15	1130	1128	1.485
15	1129	1128	0.14
32	1101	0.25	3.255
32	1044	0.25	0.755
32	1563	0.25	1.923
32	1043	0.25	2.927
32	1555	0.25	0.638
32	1102	0.25	
32	1413	0.5	2.752
32	1607	0.5	4.116
32	1048	0.5	2.545
32	1047	0.5	2.599
32	1150	0.5	4.741
32	1647	0.5	4.205
32	1409	1	1.004
32	1033	1	
32	1611	1	0.434
32	1450	1	1.082
32	1609	1	2.584
32	1601	1	0.623
32	1610	2	4.389
32	1147	2	2.311
32	1145	2	7.985
32	1643	2	6.7
32	1405	2	11.181
32	1401	2	0.256
32	1407	4	4.086
32	1141	4	4.176
32	1605	4	2.424
32	1403	4	7.236
32	1448	4	0.259
32	1648	4	11.171
32	1613	8	0.917
32	1639	8	3.505
32	1103	8	0.54
32	1106	8	6.571
32	1422	8	6.663
32	1425	8	3.911
32	1612	16	2.094
32	1568	16	10.425
32	1616	16	6.728
32	1615	16	6.138
32	1633	16	1.327
32	1560	16	6.228
32	1562	24	20.628
32	1641	24	11.308
32	1559	24	
32	1133	24	4.451
32	1421	24	1.873

### Chapter 3 – IM Plasma Pharmacokinetic Data

32	1554	24	3.706
32	1614	48	0
32	1131	48	1.564
32	1423	48	0
32	1565	48	1.152
32	1552	48	0
32	1556	48	0.235
32	1148	72	1.926
32	1644	72	1.022
32	1646	72	0.917
32	1142	72	3.103
32	1650	72	0.61
32	1404	72	11.177
32	1444	120	0.591
32	1608	120	1.504
32	1603	120	0.989
32	1410	120	0.794
32	1144	120	0.861
32	1146	120	10.823
32	1101	168	3.167
32	1044	168	19.153
32	1563	168	3.588
32	1043	168	18.246
32	1555	168	3.466
32	1102	168	7.417
32	1413	216	1.415
32	1607	216	9.175
32	1048	216	4.543
32	1047	216	1.464
32	1150	216	4.571
32	1647	216	3.47
32	1409	264	0.421
32	1033	264	8.756
32	1611	264	0.535
32	1450	264	3.321
32	1609	264	3.783
32	1601	264	0.819
32	1610	312	5.667
32	1147	312	3.793
32	1145	312	8.088
32	1643	312	7.531
32	1405	312	11.472
32	1401	312	2.332
32	1407	360	2.941
32	1141	360	4.586
32	1605	360	1.848
32	1403	360	3.037
32	1448	360	3.212
32	1648	360	5.344
32	1613	408	0.644
32	1639	408	9.371
32	1103	408	13.99
32	1106	408	0.307
32	1422	408	10.797

### Chapter 3 – IM Plasma Pharmacokinetic Data

32	1425	408	11.259
32	1612	456	0.288
32	1568	456	0.373
32	1616	456	0.471
32	1615	456	0.532
32	1633	456	0.348
32	1560	456	0.432
32	1562	504	0.403
32	1641	504	0.865
32	1559	504	0.448
32	1133	504	0.336
32	1421	504	0.383
32	1554	504	0.484
32	1614	552	0.212
32	1131	552	0.339
32	1423	552	0.433
32	1565	552	0.444
32	1552	552	0
32	1556	552	0.884
32	1148	600	
32	1644	600	0.923
32	1646	600	0.675
32	1142	600	3.187
32	1650	600	2.763
32	1404	600	2.599
32	1444	648	0.893
32	1608	648	3.09
32	1603	648	2.224
32	1410	648	1.172
32	1144	648	2.338
32	1146	648	12.924
32	1101	696	0.4
32	1044	696	0.397
32	1563	696	0.836
32	1043	696	1.007
32	1555	696	0.84
32	1102	696	0.951
32	1413	744	0.928
32	1607	744	2.597
32	1048	744	1.428
32	1047	744	1.103
32	1150	744	1.703
32	1647	744	1.321
32	1409	792	0.948
32	1033	792	6.574
32	1611	792	1.34
32	1450	792	3.857
32	1609	792	1.806
32	1601	792	
32	1610	840	1.965
32	1147	840	0.532
32	1145	840	1.695
32	1643	840	1.295
32	1405	840	1.876

### **Chapter 3** – IM Plasma Pharmacokinetic Data

32	1401	840	1.33
32	1407	888	1.143
32	1141	888	0.927
32	1605	888	0.849
32	1403	888	0.441
32	1448	888	0.652
32	1648	888	1.985
32	1613	936	0.211
32	1639	936	
32	1103	936	1.84
32	1106	936	2.05
32	1422	936	1.403
32	1425	936	1.983
32	1612	984	0.413
32	1568	984	0.201
32	1616	984	0.64
32	1615	984	0.137
32	1633	984	0.21
32	1560	984	0.597
32	1562	1032	0.963
32	1641	1032	0.823
32	1559	1032	0.835
32	1133	1032	
32	1421	1032	0.26
32	1554	1032	
32	1614	1080	1.497
32	1131	1080	1.203
32	1423	1080	1.345
32	1565	1080	2.125
32	1552	1080	1.541
32	1556	1080	0.923
32	1148	1128	0.338
32	1644	1128	0.124
32	1646	1128	0.474
32	1142	1128	0.112
32	1650	1128	0.915
32	1404	1128	0.099

### Chapter 3 – PO Plasma Pharmacokinetic Data

Salinity	Fish	Time	PlasmaOTC
0	1950	0.25	0.577
0	1390	0.25	0.149
0	1364	0.25	0.071
0	1377	0.25	0.1
0	1373	0.25	0.19
0	1352	0.25	0.106
0	1353	0.5	0.285
0	1380	0.5	0.222
0	1368	0.5	0.112
0	1391	0.5	0.172
0	1351	0.5	0.38
0	1360	0.5	0.619
0	1922	1	0.499
0	1920	1	0.389
0	1759	1	0.347
0	1397	1	0.455
0	1754	1	0.405
0	1757	1	0.184
0	1918	2	0.061
0	1905	2	0.235
0	1924	2	0.616
0	1903	2	0.057
0	1393	2	0.438
0	1902	2	0.154
0	1395	4	0.288
0	1752	4	0.329
0	1398	4	0.105
0	1904	4	0.113
0	1753	4	0.352
0	1756	4	0.158
0	1901	8	0.457
0	1913	8	0
0	1925	8	0.2
0	1755	8	0.06
0	1910	8	0.167
0	1396	8	0.267
0	1907	16	0.239
0	1914	16	0.591
0	1919	16	0.392
0	1392	16	0.203
0	1916	16	0.555
0	1917	16	0.402
0	1379	24	0.59
0	1383	24	0.875
0	1358	24	0.48
0	1385	24	0.381
0	1384	24	0.731
0	1370	24	0.491
0	1362	48	0.719
0	1356	48	0.095
0	1367	48	0.66
0	1355	48	0.106
0	1365	48	0.291

### Chapter 3 – PO Plasma Pharmacokinetic Data

0	1388	48	0.276
0	1389	72	0.504
0	1387	72	0.272
0	1382	72	0.26
0	1381	72	0.302
0	1375	72	0.371
0	1376	72	0.29
0	1923	120	0.442
0	1911	120	0.307
0	1400	120	0.504
0	1758	120	0.369
0	1399	120	0.365
0	1921	120	0.395
0	1950	168	0.218
0	1390	168	0.112
0	1364	168	0.201
0	1377	168	0.22
0	1373	168	0.156
0	1352	168	0.158
0	1353	216	0.106
0	1380	216	0.063
0	1368	216	0.327
0	1391	216	0.332
0	1351	216	0.13
0	1360	216	0.134
0	1922	264	0.363
0	1920	264	0.118
0	1759	264	0.421
0	1397	264	0.322
0	1754	264	0.367
0	1757	264	0.193
0	1918	312	0.397
0	1905	312	0.516
0	1924	312	
0	1903	312	0.449
0	1393	312	0.469
0	1902	312	0.464
0	1395	360	0.29
0	1752	360	0.107
0	1398	360	0.229
0	1904	360	0.267
0	1753	360	0.248
0	1756	360	0.07
0	1901	408	0.33
0	1913	408	0.12
0	1925	408	0.102
0	1755	408	0
0	1910	408	0.188
0	1396	408	0.341
0	1907	456	0.111
0	1914	456	0.418
0	1919	456	0.251
0	1392	456	0.235
0	1916	456	0

### Chapter 3 – PO Plasma Pharmacokinetic Data

0	1917	456	0.384
0	1379	504	0.388
0	1383	504	0.29
0	1358	504	0.271
0	1385	504	0.259
0	1384	504	0.116
0	1370	504	0.116
0	1362	552	0.13
0	1356	552	0.226
0	1367	552	0.208
0	1355	552	0.05
0	1365	552	0
0	1388	552	0.266
0	1389	600	0.327
0	1387	600	0.05
0	1382	600	0.443
0	1381	600	0.354
0	1375	600	0.308
0	1376	600	0.284
0	1923	648	0.075
0	1911	648	0.057
0	1400	648	0.314
0	1758	648	0.142
0	1399	648	0.196
0	1921	648	0.128
0	1950	696	0.163
0	1390	696	0.1
0	1364	696	0.097
0	1377	696	0.05
0	1373	696	0.15
0	1352	696	0.15
0	1353	744	0.05
0	1380	744	0
0	1368	744	0.157
0	1391	744	0.05
0	1351	744	0.05
0	1360	744	0.05
0	1922	792	0.05
0	1920	792	0.057
0	1759	792	0.66
0	1397	792	0.178
0	1754	792	0.198
0	1757	792	0.05
0	1918	840	0.05
0	1905	840	0.052
0	1924	840	
0	1903	840	0
0	1393	840	0
0	1902	840	0.05
0	1395	888	0
0	1752	888	0.05
0	1398	888	0.05
0	1904	888	0.05
0	1753	888	0.15

### Chapter 3 – PO Plasma Pharmacokinetic Data

0	1756	888	0
0	1901	936	0
0	1913	936	0.123
0	1925	936	0
0	1755	936	0
0	1910	936	0.096
0	1396	936	
0	1907	984	0
0	1914	984	0.324
0	1919	984	0
0	1392	984	0.248
0	1916	984	0
0	1917	984	0.127
0	1379	1032	0
0	1383	1032	0
0	1358	1032	0
0	1385	1032	0
0	1384	1032	0.055
0	1370	1032	0
0	1362	1080	0.193
0	1356	1080	0
0	1367	1080	0.281
0	1355	1080	0
0	1365	1080	0
0	1388	1080	0.066
0	1389	1128	0
0	1387	1128	0.05
0	1382	1128	0.398
0	1381	1128	0.05
0	1375	1128	0.05
0	1376	1128	0.05
15	1789	0.25	0.372
15	1782	0.25	0.381
15	1779	0.25	0.324
15	1799	0.25	0.229
15	1934	0.25	0
15	1928	0.25	0
15	1927	0.5	0.393
15	1940	0.5	0.149
15	1790	0.5	0.409
15	1931	0.5	0.151
15	1941	0.5	0.067
15	1930	0.5	0.441
15	1746	1	0.077
15	1665	1	0.054
15	1776	1	0.151
15	1657	1	0.327
15	1745	1	0.143
15	1671	1	0.099
15	1660	2	0.12
15	1672	2	0.322
15	1737	2	0.349
15	1674	2	0.213
15	1653	2	0.121



### **Chapter 3** – PO Plasma Pharmacokinetic Data

15	1658	2	0.317
15	1750	4	0.168
15	1781	4	0.499
15	1661	4	0.106
15	1777	4	0.08
15	1662	4	0.344
15	1667	4	0.359
15	1748	8	0.103
15	1659	8	0.065
15	1668	8	0.182
15	1738	8	0.076
15	1740	8	0.225
15	1669	8	0.107
15	1655	16	0.361
15	1742	16	0.388
15	1673	16	0.418
15	1675	16	0.497
15	1741	16	0.101
15	1666	16	0.599
15	1946	24	0.229
15	1794	24	0.606
15	1785	24	0.73
15	1936	24	0.278
15	1929	24	0.226
15	1784	24	0.662
15	1938	48	0.375
15	1800	48	0.445
15	1786	48	0.201
15	1933	48	0.701
15	1783	48	0.46
15	1795	48	0.441
15	1788	72	0.275
15	1943	72	0.059
15	1798	72	0.312
15	1932	72	0.161
15	1944	72	0.337
15	1935	72	0.581
15	1663	120	0.201
15	1778	120	0.476
15	1739	120	0.095
15	1654	120	0.348
15	1747	120	0.09
15	1670	120	0.13
15	1789	168	0.197
15	1782	168	0.117
15	1779	168	0
15	1799	168	0.223
15	1334	168	0.226
15	1928	168	0.189
15	1927	216	0.19
15	1940	216	0.26
15	1790	216	0.29
15	1931	216	0.301
15	1941	216	0.346

### **Chapter 3** – PO Plasma Pharmacokinetic Data

15	1930	216	0.068
15	1746	264	0.138
15	1665	264	0.309
15	1776	264	0.334
15	1657	264	0.279
15	1745	264	0.179
15	1671	264	0
15	1660	312	0.693
15	1672	312	0.376
15	1737	312	
15	1674	312	0.425
15	1653	312	0.434
15	1658	312	0.342
15	1750	360	0.098
15	1781	360	0.18
15	1661	360	0.387
15	1777	360	0.074
15	1662	360	0.151
15	1667	360	0.185
15	1748	408	0.206
15	1659	408	0.376
15	1668	408	0.242
15	1738	408	0.582
15	1740	408	0.497
15	1669	408	0.433
15	1655	456	0.147
15	1742	456	0.2
15	1673	456	0.201
15	1675	456	0.155
15	1741	456	0.429
15	1666	456	0.094
15	1946	504	0.061
15	1794	504	0.265
15	1785	504	0.3
15	1936	504	0.044
15	1929	504	0.262
15	1784	504	0.268
15	1938	552	0.247
15	1800	552	0.057
15	1786	552	0.367
15	1933	552	0.146
15	1783	552	0.307
15	1795	552	0.209
15	1788	600	0
15	1943	600	0
15	1798	600	0.184
15	1932	600	0.156
15	1944	600	0.211
15	1935	600	0.281
15	1663	648	0.098
15	1778	648	0
15	1739	648	0.168
15	1654	648	
15	1747	648	0.146

### **Chapter 3 – PO Plasma Pharmacokinetic Data**

15	1670	648	0.184
15	1789	696	0.045
15	1782	696	0.125
15	1779	696	0.063
15	1799	696	0.118
15	1934	696	0.286
15	1928	696	0.183
15	1941	744	0.204
15	1972	744	0.047
15	1790	744	0.05
15	1930	744	0.039
15	1931	744	0.096
15	1940	744	0.065
15	1746	792	0.097
15	1665	792	0.343
15	1776	792	0.227
15	1657	792	0.391
15	1745	792	0.065
15	1671	792	0.114
15	1660	840	0.072
15	1672	840	0.05
15	1737	840	
15	1674	840	0
15	1653	840	0.205
15	1658	840	0.078
15	1750	888	0.059
15	1781	888	0.151
15	1661	888	0
15	1777	888	0.05
15	1662	888	0
15	1667	888	0.281
15	1748	936	0.202
15	1659	936	0
15	1668	936	0.061
15	1738	936	0
15	1740	936	0.136
15	1669	936	0.29
15	1655	984	0.147
15	1742	984	0
15	1673	984	0
15	1675	984	0.084
15	1741	984	0.061
15	1666	984	0.298
15	1946	1032	0
15	1794	1032	0
15	1785	1032	0
15	1936	1032	0.061
15	1929	1032	0
15	1784	1032	0
15	1938	1080	0
15	1800	1080	0
15	1786	1080	0.05
15	1933	1080	0.114
15	1783	1080	0.093

### Chapter 3 – PO Plasma Pharmacokinetic Data

15	1795	1080	0.114
15	1788	1128	0
15	1943	1128	0.05
15	1798	1128	0
15	1932	1128	0.05
15	1944	1128	0.073
15	1935	1128	0
32	1678	0.25	0.346
32	1155	0.25	0.245
32	1161	0.25	0.259
32	1163	0.25	0.074
32	1152	0.25	0.072
32	1160	0.25	0.376
32	1774	0.5	0.052
32	1768	0.5	0.272
32	1751	0.5	0.189
32	1164	0.5	0.24
32	1775	0.5	0
32	1151	0.5	0.071
32	1189	1	0.174
32	1181	1	0.201
32	1182	1	0.345
32	1185	1	0.297
32	1183	1	0.084
32	1695	1	0.428
32	1698	2	0.065
32	1177	2	0.127
32	1193	2	0.103
32	1696	2	0.419
32	1195	2	0.068
32	1178	2	0
32	1697	4	0.142
32	1686	4	0.303
32	1190	4	0.366
32	1180	4	0.104
32	1692	4	0.353
32	1687	4	0.383
32	1691	8	0.111
32	1693	8	0.172
32	1187	8	0.105
32	1683	8	0.155
32	1184	8	0.191
32	1688	8	0.092
32	1690	16	0.28
32	1700	16	0.441
32	1682	16	0.508
32	1699	16	0.152
32	1685	16	0.477
32	1186	16	0.217
32	1771	24	0.488
32	1167	24	0.391
32	1766	24	0.1
32	1173	24	0.757
32	1676	24	0.359

### **Chapter 3 – PO Plasma Pharmacokinetic Data**

32	1769	24	0.456
32	1162	48	0.206
32	1158	48	0.232
32	1174	48	0.133
32	1773	48	0.262
32	1762	48	0.117
32	1175	48	0.113
32	1153	72	0.079
32	1194	72	0.33
32	1767	72	0.322
32	1171	72	0
32	1172	72	0
32	1764	72	0
32	1179	120	0.285
32	1689	120	0.164
32	1684	120	0.053
32	1196	120	0.164
32	1681	120	0.111
32	1192	120	0.277
32	1678	168	0.429
32	1155	168	0.912
32	1161	168	0
32	1163	168	0.374
32	1152	168	0.312
32	1160	168	0.413
32	1774	216	0.182
32	1768	216	0.268
32	1751	216	0.345
32	1164	216	0.482
32	1775	216	0.307
32	1151	216	0.249
32	1189	264	0
32	1181	264	0
32	1182	264	0.307
32	1185	264	0
32	1183	264	0.272
32	1695	264	0
32	1698	312	0
32	1177	312	0.259
32	1193	312	0.446
32	1696	312	0.098
32	1195	312	0.215
32	1178	312	0.395
32	1697	360	0.216
32	1686	360	0.167
32	1190	360	0.153
32	1180	360	0.064
32	1692	360	0.05
32	1687	360	0
32	1691	408	0.285
32	1693	408	0.116
32	1187	408	0.201
32	1683	408	0.082
32	1184	408	0.32

### Chapter 3 – PO Plasma Pharmacokinetic Data

32	1688	408	0.088
32	1690	456	0.184
32	1700	456	0.086
32	1682	456	0.298
32	1699	456	0.065
32	1685	456	0.22
32	1186	456	0.187
32	1771	504	0.295
32	1167	504	0.138
32	1766	504	0
32	1173	504	0.337
32	1676	504	0.069
32	1769	504	0.05
32	1162	552	0.077
32	1158	552	0.061
32	1174	552	0.251
32	1773	552	0.368
32	1762	552	0.111
32	1175	552	0.149
32	1153	600	0.143
32	1194	600	0.246
32	1767	600	0.229
32	1171	600	
32	1172	600	
32	1764	600	0.126
32	1179	648	0.14
32	1689	648	0.05
32	1684	648	0
32	1196	648	0.216
32	1681	648	0.05
32	1192	648	0.05
32	1678	696	0.18
32	1155	696	0.129
32	1161	696	0.121
32	1163	696	0
32	1152	696	0.135
32	1160	696	0.203
32	1774	744	0.18
32	1768	744	0.291
32	1751	744	0.05
32	1164	744	0.05
32	1775	744	0.05
32	1151	744	0.05
32	1189	792	0.152
32	1181	792	0.105
32	1182	792	0.245
32	1185	792	0.05
32	1183	792	0
32	1695	792	0.05
32	1698	840	0
32	1177	840	0.822
32	1193	840	0.099
32	1696	840	0
32	1195	840	0

### **Chapter 3** – PO Plasma Pharmacokinetic Data

32	1178	840	0
32	1697	888	0.05
32	1686	888	0
32	1190	888	0
32	1180	888	0
32	1692	888	0
32	1687	888	0
32	1691	936	0.05
32	1693	936	0.05
32	1187	936	0.05
32	1683	936	0.05
32	1184	936	0.072
32	1688	936	0.05
32	1690	984	0
32	1700	984	0.131
32	1682	984	0.17
32	1699	984	0
32	1685	984	0.05
32	1186	984	0.1
32	1771	1032	0
32	1167	1032	0
32	1766	1032	0
32	1173	1032	0.053
32	1676	1032	0
32	1769	1032	0
32	1162	1080	0
32	1158	1080	0
32	1174	1080	0
32	1773	1080	0
32	1762	1080	
32	1175	1080	0
32	1153	1128	0
32	1194	1128	0.05
32	1767	1128	0
32	1171	1128	
32	1172	1128	
32	1764	1128	0

### Chapter 3 – PO Physiology Data

Salinity	Fish	Time	PlasmaOTC	UrineSG	UrineOTC	MuscleOTC
0	1915	8	0.457	1	0.745	0
0	1906	8	0	1.008		0.051
0	1908	8	0.2	1	0.739	0
0	1912	8	0.06	1.018		0.053
0	1760	8	0.167			0.067
0	1909	8	0.267	1.001	1.961	0.1
0	1354	552	0.13	1	0.058	0
0	1378	552	0.226	1	0.078	0
0	1357	552	0.208	1	0.154	0.054
0	1949	552	0.05	1	0.215	0
0	1361	552	0			0
0	1369	552	0.266			0.234
0	1389	1128	0	1	0	0
0	1387	1128	0.05	1	0	0
0	1382	1128	0.398			0.083
0	1381	1128	0.05	1	0	0
0	1375	1128	0.05	1		0
0	1376	1128	0.05		0	0
15	1656	8	0.103	1.013	8.957	0.343
15	1652	8	0.065	1.005	1.196	0.116
15	1664	8	0.182	1.014		0.202
15	1651	8	0.076	1.013		0.258
15	1744	8	0.225	1.007	4.248	0.319
15	1749	8	0.107	1.004	2.315	0.404
15	1942	552	0.247	1.001	0	0.191
15	1793	552	0.057	1.01	2.211	0.216
15	1926	552	0.367	1.001	0	0.135
15	1948	552	0.146			0.506
15	1937	552	0.307			0
15	1947	552	0.209			0
15	1788	1128	0			0
15	1943	1128	0.05	1.013	0	0
15	1798	1128	0			0
15	1932	1128	0.05	1.016	0	0
15	1944	1128	0.073	1.01	0	0
15	1935	1128	0	1.007		0
32	1176	8	0.111	1.01	2.395	0.328
32	1694	8	0.172	1.008		0.343
32	1191	8	0.105	1.012	1.28	0.225
32	1679	8	0.155	1.012	0	0.235
32	1680	8	0.191	1.01	2.143	0.623
C	1188	8	0.092	1.011	0	0.227
C	1763	552	0.077	1.005		0.117
C	1677	552	0.061	1.01	0	0.091
C	1765	552	0.251			0.298
C	1165	552	0.368	1.01	0	0.052
C	1761	552	0.111			0.1
C	1156	552	0.149			0.158
C	1194	1128	0.05	1.012	0	0
C	1767	1128	0	1.01		0
C	1171	1128				
C	1172	1128				



### **Chapter 3** – PO Physiology Data

C	1764	1128	0			0
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### Chapter 3 – IM Physiology Data

Salinity	Fish	Time	PlasmaOTC	UrineSG	UrineOTC	MuscleOTC
0	1	8	13.273			1.582
0	2	8	16.491		0.667	1.087
0	3	8	8.79		7.672	2.193
0	4	8	5.699		16.532	1.528
0	5	8			16.307	1.046
0	6	8	7.807			0.557
0	1123	552	2.33		17.172	3.073
0	1623	552	3.192		4.24	2.742
0	1119	552	3.227		6.243	2.465
0	1037	552	2.402		3.448	1.706
0	1078	552	7.204			4.358
0	1576	1128	0.057	1	2.671	0.238
0	1622	1128				
0	1577	1128	0.101	1		0.199
0	1128	1128	0.271	1	2.495	0.324
0	1584	1128	0.157	1.001	6.79	0.889
0	1621	1128	0.247	1	2.36	0.177
15	1	8	18.51		11.061	3.831
15	2	8	9.787			2.247
15	3	8	10.797		0.698	2.415
15	4	8	9.457		18.423	1.797
15	5	8	8.767		8.227	1.207
15	6	8				
15	1496	552	8.454			5.154
15	1439	552	3.588		105.462	4.256
15	1499	552	4.136		40.279	4.182
15	1038	552	5.006		59.768	4.701
15	1054	552	2.884		29.385	2.514
15	1039	552	1.929		20.769	1.257
15	1074	1128	0.169	1.003	10.601	0.247
15	1438	1128	0.384	1.001	2.434	0.199
15	1020	1128	0.234			0.206
15	1014	1128	0.524	1.003	3.614	0.145
15	1130	1128	1.485	1.004	17.531	0.442
15	1129	1128	0.14	1.002	1.663	0.122
32	1	8	27.621		9.926	2.369
32	2	8	9.306		7.238	1.008
32	3	8	3.816		15.496	11.77
32	4	8	20.223		8.991	2.39
32	5	8	8.603		6.156	7.942
32	6	8	6.127		4.29	0.7
32	1602	552	2.174		22.573	0.862
32	1604	552	4.151			1.942
32	1412	552	2.422			1.719
32	1104	552	2.374		48.367	1.913
32	1040	552	3.018		125.569	2.114
32	1041	552	2.848		78.882	2.292
32	1148	1128	0.338			0.282
32	1644	1128	0.124			0.188
32	1646	1128	0.474	1.012	12.252	0.237
32	1142	1128	0.112	1.014	36.711	0.217
32	1650	1128	0.915	1.008		0.142
32	1404	1128	0.099	1.009	1.109	0.281