





**Fluoridation & Chlorination**

**WSSN 2310**

**Dec-18**

D A T E	Fluoride Applied F mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l			Chlorine Residual mg/l								
		Raw	Tap	Dist	Chlorine App. Mg/l	Chlorine (prior to filtration) mg/L OCl <sup>-</sup>	Post Chlorine mg/L	Sta II	Dort	3MG Well	Tap					
								Free	Free	Free	Free					
		14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1		0.71	0.71		1.14				1.0						1.6	
2		0.65	0.71		1.02				1.0						1.7	
3		0.64	0.70		1.09				1.1						1.7	
4		0.74	0.77		1.08				1.1						1.7	
5		0.64	0.67		0.82				1.1						1.6	
6		0.57	0.54		1.02				1.1						1.4	
7		0.60	0.70		0.96				1.1						1.6	
8		0.65	0.70		1.00				1.1						1.6	
9		0.61	0.60		0.96				1.1						1.6	
10		0.64	0.67		0.95				1.1						1.6	
11		0.62	0.65		1.03				1.0						1.7	
12		0.60	0.68		0.98				1.1						1.8	
13		0.68	0.69		0.89				1.1						1.6	
14		0.71	0.72		0.86				1.1						1.6	
15		0.71	0.72		0.88				1.1						1.7	
16		0.71	0.72		0.97				1.1						1.7	
17		0.71	0.71		1.02				1.1						1.7	
18		0.72	0.72		1.03				1.1						1.8	
19		0.70	0.70		0.99				1.2						1.8	
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
AVG			0.69		0.98				1.1						1.7	
MAX			0.77		1.14				1.2						1.8	
MIN			0.54		0.82				1.0						1.4	



**Chemical Analyses                      WSSN 2310                      Dec-18**

D A T E	pH		Total Hardness as CaCO <sub>3</sub> mg/l		Total Alkalinity as CaCO <sub>3</sub> mg/l		NonCarbonate Hardness as CaCO <sub>3</sub> mg/l		Iron mg/L		Calcium Ca <sup>2+</sup> mg/l		Magnesium as Mg <sup>2+</sup> mg/l		Chloride as Cl <sup>-</sup> mg/l	
	CSII	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap	Raw	Tap
	29	30	31	32	33	34	35	36	37	38.00	39	40	41	42	43	44
1	7.49	7.57		100		82		32	0.01	0.02		27.3		7.8		16
2	7.32	7.54		106		82		36	0.0	0.01		28.1		8.7		13
3	7.47	7.52		100		82		32	0.01	0.02		27.3		7.8		15
4	7.38	7.43	100	100	82	80	30	32	0	0.04	28.1	27.3	7.29	7.8	14	16
5	7.38	7.38		102		78		34	0.01	0.01		27.3		8.3		16
6	7.44	7.48		100		82		30	0.01	0.01		28.1		7.3		14
7	7.42	7.43		102		82		30	0.02	0.02		28.9		7.3		15
8	7.47	7.49		102		100		30	0.01	0.02		28.9		7.3		16
9	7.36	7.61		106		80		36	0.01	0.02		28.1		8.7		14
10	7.41	7.58		104		84		32	0.01	0.02		28.9		7.8		14
11	7.31	7.57	102	100	80	82	32	28	0.01	0.02	28.1	28.9	7.8	6.8	14	14
12	7.42	7.51		98		82		30	0.01	0.02		27.3		7.3		16
13	7.40	7.46		100		82		30	0.02	0.02		28.1		7.3		14
14	7.41	7.47		102		80		32	0.01	0.00		28.1		7.8		17
15	7.27	7.45		102		80		32	0.02	0.02		28.1		7.8		14
16	7.40	7.61		102		80		30	0.02	0.01		28.9		7.3		16
17	7.30	7.35		102		80		32	0.02	0.02		28.1		7.8		16
18	7.33	7.49	100	100	82	80	30	30	0.02	0.02	28.1	28.1	7.29	7.3	15	15
19	7.35	7.48		100		82		30	0.02	0.01		28.1		7.3		16
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
AVG	7.39	7.50		101		82		31		0.02		28.1		7.6		15
MAX	7.49	7.61		106		100		36		0.04		28.9		8.7		17.0
MIN	7.27	7.35		98		78		28		0.00		27.3		6.8		13.0



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D A T E	Total Coliform						66	Standard Plate Count		Conductivity (mS)	Temp deg.C	Color		Odor	
	Plant Tap							Raw	Tap			Raw	Tap	Raw	Tap
			Dort	3MG Well	Sta II	Lab Tap									
	60	61	62	63	64	65									
1						2/0			0.22	10.9					
2						2/0			0.23	11.3					
3						2/0			0.22	10.7					
4						2/0			0.23	10.4					
5						2/0			0.22	10.6					
6						2/0			0.21	10.5					
7						2/0			0.20	9.1					
8						2/0			0.18	12.0					
9						2/0			0.23	11.3					
10						2/0			0.23	11.1					
11						2/0			0.23	10.7					
12						2/0			0.23	11.7					
13						2/0			0.21	11.1					
14						2/0			0.23	11.1					
15						2/0			0.24	10.9					
16						2/0			0.21	10.5					
17						2/0			0.19	10.3					
18						2/0			0.23	9.4					
19						2/0			0.23	10.7					
20															
21															
22															
23															
24															
25															
26															
27															
28															
29															
30															
31															
AVG									0.22	10.8					
MAX									0.24	12.0					
MIN									0.18	9.1					



Distribution System Monitoring WSSN 2310

Dec-18

DATE	Free Chlorine Residual at Bacteriological Monitoring Stations mg/l																									Chlorine only sites mg/l					Number of Samples				
	1	2	3	4	CS	6	7	8	9	10	WR	12	13	14	15	16	17	18	19	20	26	27	28	29	30	21	22	23	24	25					
1																															0				
2												1.07																			1				
3	1.22	1.66	1.54	1.59	1.77	1.26																		1.51			1.23				8				
4							1.41	1.44	1.39	1.42			0.64									1.29						1.33			7				
5														1.66	1.23	1.54	1.14	1.35	0.68					1.62				1.44			8				
6	1.36	1.62	1.35	1.33	1.41															0.98		1.72						1.37			8				
7											1.31					1.55	1.52	1.28	0.55							1.72			0.51		7				
8																															0				
9												1.26																			1				
10	1.49		1.55	0.95	1.71	1.38																		1.48			1.14				7				
11							1.46	1.64	1.61	1.55	1.58		1.13									1.42					1.47				8				
12														1.24	1.47	1.37	1.14	0.78						1.59				1.53			7				
13	1.32	1.44	1.28	1.32	1.41									1.33									1.60					1.26			8				
14															1.53	1.65	1.29	0.96						1.54					1.33		6				
15																															0				
16												1.09																			1				
17	1.26	1.59	1.51	1.21	1.59	1.53															1.21			1.55			1.42				9				
18							1.47	1.56	1.62	1.60	1.47		1.17									1.28					1.39				8				
19														1.44	1.21	1.59	1.57	1.29	1.11					1.69							8				
20																															0				
21																															0				
22																															0				
23																															0				
24																															0				
25																															0				
26																															0				
27																															0				
28																															0				
29																															0				
30																															0				
31																															0				
<b>Monthly Cl<sub>2</sub> Avg.</b>					<b>1.38</b>																														
<b>Total Samples</b>					<b>89</b>																														



Distribution System Monitoring

WSSN 2310

Dec-18

DATE	Total Chlorine Residual at Bacteriological Monitoring Stations mg/l																									Chlorine only sites mg/l					Number of Samples									
	1	2	3	4	CS	6	7	8	9	10	WR	12	13	14	15	16	17	18	19	20	26	27	28	29	30	21	22	23	24	25										
1																																0								
2												1.19																				1								
3	1.46	1.91	1.72	1.81	2.05	1.68																		1.75			1.58					8								
4							1.60	1.69	1.59	1.77			1.20									1.45					1.58					7								
5														1.87	1.37	1.68	1.67	1.48	0.83							1.87						8								
6	1.58	1.87	1.71	1.62	1.70															1.08		1.94							1.59			8								
7										1.69						1.77	1.71	1.54	0.74								1.89			1.44		7								
8																																	0							
9												1.26																					1							
10	1.49		1.55	0.95	1.71	1.38																		1.48			1.14					7								
11							1.46	1.64	1.61	1.55	1.58		1.13									1.42					1.47					8								
12															1.24	1.47	1.37	1.14	0.78						1.59				1.53				7							
13	1.55	1.80	1.67	1.72	2.04									1.71										1.96						1.61			8							
14																1.72	1.87	1.53	1.16							1.70				1.44			6							
15																																		0						
16												1.31																						1						
17	1.44	1.92	1.69	1.76	1.97	1.79															1.31				1.85		1.63						9							
18							1.59	1.89	1.88	1.91	1.78		1.31									1.53					1.60						8							
19														1.86	1.49	1.84	1.88	1.57	1.27							1.98							8							
20																																		0						
21																																		0						
22																																		0						
23																																		0						
24																																		0						
25																																		0						
26																																		0						
27																																		0						
28																																		0						
29																																		0						
30																																		0						
31																																		0						
<b>Monthly Cl<sub>2</sub> Avg.</b>				<b>1.59</b>																																				
<b>Total Samples</b>				<b>89</b>																																				



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**Dec-18**

Total number of positive routine samples:				Total Coliform: <u>0</u>			E.coli Bacteria: <u>0</u>		Chlorine Residual (mg/L)	
Date	Monitoring Station	Total Coliform	E.coli Bacteria	Date	Time	Retest of Station, Upstream & Downstream	Total Coliform	E.coli Bacteria	Free	Total
Total number of routine distribution samples analyzed:				<b>89</b>						
Total number of routine distribution samples required:				<b>100</b>						