





**Flouridation & Chlorination**

**WSSN 2310**

**Dec-15**

D A T E	Fluoride Applied F- mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l			Chlorine Residual mg/l							
						Chlorine (prior to filtration) mg/L OCl-	Post Chlorine mg/L		Sta II	Dort	3MG Well		Tap		
		Free	Free	Free						Free					
		Raw	Tap	Dist											
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
1		0.73						1.0						0.9	
2		0.73						1.0						0.9	
3		0.71						1.0						0.9	
4		0.74						0.9						0.9	
5		0.74						1.0						0.9	
6		0.71						0.9						0.8	
7		0.70						0.9						0.9	
8		0.74						1.0						0.9	
9		0.75						1.0						0.9	
10		0.72						0.9						0.9	
11		0.76						1.0						0.9	
12		0.73						1.1						1.0	
13		0.69						0.9						0.9	
14		0.68						0.9						0.9	
15		0.73						1.0						1.0	
16		0.70						0.9						0.8	
17		0.70						1.0						0.9	
18		0.71						0.9						1.0	
19		0.68						1.0						0.9	
20		0.66						1.0						0.8	
21		0.68						1.0						0.7	
22		0.73						1.0						1.0	
23		0.68						1.0						0.7	
24		0.68						1.0						0.6	
25		0.70						0.9						0.5	
26		0.72						1.0						0.9	
27		0.70						1.0						0.9	
28		0.69						0.9						0.9	
29		0.70						1.0						1.0	
30		0.71						0.9						0.9	
31		0.69						0.9						0.9	
AVG		0.71						1.0						0.9	
MAX		0.76						1.1						1.0	
MIN		0.66						0.9						0.5	



**Chemical Analyses**

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D A T E	pH		Total Hard as CaCO <sub>3</sub> mg/l		Total Alk as CaCO <sub>3</sub> mg/l		NonCarbonate Hardness as CaCO <sub>3</sub> mg/l				Calcium Ca ++ mg/l		Magnesium as Mg ++ mg/l		Chloride as Cl - 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	39	40	41	42	43	44
1	7.39	7.43		98		68		30				30.5		5.4		15
2	7.64	7.41		106		74		32				33.7		5.4		14
3	7.38	7.42		102		74		28				32.1		5.3		15
4	7.54	7.48		108		74		34				36.1		4.4		12
5	7.45	7.43		102		74		28				29.7		6.8		11
6	7.42	7.42		100		74		26				30.5		5.8		10
7	7.43	7.41		102		74		28				31.3		5.8		11
8	7.44	7.42		102		72		30				30.5		6.3		14
9	7.50	7.44		104		72		32				31.3		6.3		14
10	7.46	7.35		102		72		30				29.7		6.8		14
11	7.43	7.28		96		72		24				32.1		3.9		15
12	7.48	7.30		94		74		20				31.3		3.9		16
13	7.35	7.30		100		72		28				32.1		4.9		11
14	7.41	7.29		98		74		24				29.7		5.8		11
15	7.46	7.26		98		74		24				29.7		5.8		11
16	7.40	7.29		104		74		30				31.3		6.3		14
17	7.35	7.30		100		74		26				31.3		5.3		15
18	7.46	7.27		106		68		38				29.7		7.8		14
19	7.50	7.31		100		70		30				33.7		3.9		15
20	7.48	7.30		100		74		26				30.5		6.3		11
21	7.43	7.27		100		74		26				32.9		4.4		14
22	7.44	7.29		106		72		34				32.1		6.3		15
23	7.42	7.29		100		72		28				30.5		5.8		14
24	7.60	7.30		106		74		32				30.5		7.3		14
25	7.45	7.28		100		68		32				34.5		3.4		13
26	7.42	7.37		104		72		32				32.1		5.8		14
27	7.42	7.31		100		74		26				30.5		5.8		11
28	7.44	7.30		96		74		22				30.5		4.9		12
29	7.64	7.32		98		66		32				31.3		4.9		14
30	7.33	7.27		100		68		32				31.3		5.3		14
31	7.44	7.28		100		72		28				32.1		4.9		14
AVG	7.45	7.34		101		72		29				31.5		5.5		13.3
MAX	7.64	7.48		108		74		38				36.1		7.8		16.0
MIN	7.33	7.26		94		66		20				29.7		3.4		10.0



**Bacteriological & Physical Parameters**

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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	2/0	2/0	2/0			< 2	0.21	15.3				
2			2/0	2/0	2/0	2/0			< 2	0.21	16.3				
3			2/0	2/0	2/0	2/0			< 2	0.21	15.7				
4			2/0	2/0	2/0	2/0			< 2	0.21	15.4				
5			2/0	2/0	2/0	2/0			< 2	0.21	16.8				
6			2/0	2/0	2/0	2/0			< 2	0.21	15.4				
7			2/0	2/0	2/0	2/0			< 2	0.21	14.3				
8			2/0	2/0	2/0	2/0			< 2	0.21	14.9				
9			2/0	2/0	2/0	2/0			< 2	0.21	14.8				
10			2/0	2/0	2/0	2/0			< 2	0.21	17.4				
11			2/0	2/0	2/0	2/0			< 2	0.21	15.6				
12			2/0	2/0	2/0	2/0			< 2	0.21	16.0				
13			2/0	2/0	2/0	2/0			< 2	0.21	15.9				
14			2/0	2/0	2/0	2/0			< 2	0.21	15.5				
15			2/0	2/0	2/0	2/0			< 2	0.21	15.9				
16			2/0	2/0	2/0	2/0			< 2	0.21	15.5				
17			2/0	2/0	2/0	2/0			< 2	0.21	15.2				
18			2/0	2/0	2/0	2/0			< 2	0.21	15.8				
19			2/0	2/0	2/0	2/0			< 2	0.21	17.8				
20			2/0	2/0	2/0	2/0			< 2	0.20	16.0				
21			2/0	2/0	2/0	2/0			< 2	0.22	20.8				
22			2/0	2/0	2/0	2/0			< 2	0.21	16.9				
23			2/0	2/0	2/0	2/0			< 2	0.22	20.1				
24			2/0	2/0	2/0	2/0			< 2	0.22	21.3				
25			2/0	2/0	2/0	2/0			< 2	0.21	17.4				
26			2/0	2/0	2/0	2/0			< 2	0.21	16.8				
27			2/0	2/0	2/0	2/0			< 2	0.20	16.2				
28			2/0	2/0	2/0	2/0			< 2	0.21	16.3				
29			2/0	2/0	2/0	2/0			< 2	0.21	15.9				
30			2/0	2/0	2/0	2/0			< 2	0.21	15.9				
31			2/0	2/0	2/0	2/0			< 2	0.21	15.8				
											16.4				
											21.3				
											14.3				



**Distribution System Monitoring**

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**Dec-15**

DATE	Free Chlorine Residual at Bacteriological Monitoring Stations mg/l										
	1	2	3	4	5	6	7	8	CS	WR	Number of Samples
1	0.3	1.1	0.7	0.5	0.5	0.3	0.3	1.0	0.6	0.8	10
2	0.1	1.0	0.9	0.7	0.5	0.1	0.2	0.8	0.9	1.1	10
3	0.2	0.6	0.8	0.5	0.3	0.2	0.4	0.8	0.8	1.0	10
4											0
5											0
6											0
7											0
8	0.3	1.0	0.9	0.8	0.5	0.2	0.3	0.9	0.8	0.8	10
9	0.2	0.9	0.8	0.6	0.5	0.2	0.3	0.8	0.7	0.9	10
10	0.2	1.0	0.7	0.6	0.3	0.2	0.4	0.8	0.8	0.8	10
11											0
12											0
13											0
14											0
15											0
16	0.2	0.9	0.7	0.7	0.4	0.1	0.7	0.7	0.7	0.8	10
17	0.3	1.0	0.6	0.7	0.4	0.2	0.5	0.8	0.7	0.8	10
18											0
19											0
20											0
21											0
22	0.3	0.8	0.8	0.8	0.7	0.2	0.8	0.8	1.0	3.2	10
23	0.3	0.9	1.3	0.7	0.6	0.2	0.5	0.9	1.8	3.1	10
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>0.678</b>							
<b>Total Samples</b>				<b>100</b>							



**Distribution System Monitoring**

**WSSN 2310**

**Dec-15**

DATE	Total Chlorine Residual at Bacteriological Monitoring Stations mg/l										
	1	2	3	4	5	6	7	8	CS	WR	Number of Samples
1	0.5	1.3	0.9	0.7	0.7	0.5	0.5	1.2	0.8	1.0	10
2	0.3	1.2	1.1	0.9	0.7	0.3	0.4	1.0	1.1	1.3	10
3	0.4	0.8	1.0	0.7	0.5	0.4	0.6	1.0	1.0	1.2	10
4											0
5											0
6											0
7											0
8	0.5	1.2	1.1	1.0	0.8	0.4	0.5	1.1	1.0	1.0	10
9	0.4	1.1	1.0	0.8	0.7	0.4	0.5	1.0	0.9	1.0	10
10	0.4	1.2	0.9	0.8	0.5	0.4	0.6	1.0	1.0	1.0	10
11											0
12											0
13											0
14											0
15											0
16	0.4	1.1	0.9	0.9	0.6	0.3	0.9	0.8	0.9	1.0	10
17	0.5	1.2	0.8	0.9	0.6	0.2	0.7	1.0	0.9	1.0	10
18											0
19											0
20											0
21											0
22	0.5	1.0	1.0	1.0	0.9	0.4	1.0	1.0	1.2	3.4	10
23	0.5	1.1	1.5	0.9	0.7	0.4	0.7	1.1	2.0	3.3	10
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>0.874</b>							
<b>Total Samples</b>				<b>100</b>							



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**Dec-15**

Total number of positive routine samples:				Total Coliform: <u>0</u>		Fecal Coliform: <u>0</u>	
Date	Monitoring Station	Total Coliform	Fecal Coliform	Date	Retest of Station, Upstream & Downstream	Total Coliform	Fecal Coliform
Total number of routine distribution samples analyzed:				<b>100</b>			
Total number of routine distribution samples required:				<b>100</b>			