





**Fluoridation & Chlorination**

**WSSN 2310**

**Dec-16**

D A T E	Fluoride Applied F mg/l	Fluoride Analyses mg/l			Chlorine App. Mg/l			Chlorine Residual mg/l								
					Chlorine App. Mg/l	Chlorine (prior to filtration) mg/L OCI <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			0.79		1.11				0.8						1.7	
2			0.79		1.06				0.9						1.6	
3			0.81		1.07				0.7						1.8	
4			0.77		1.10				0.9						1.7	
5			0.78		1.12				0.9						1.8	
6			0.73		1.11				0.9						1.6	
7			0.77		1.04				0.8						1.7	
8			0.81		1.04				0.9						1.7	
9			0.77		1.05				0.8						1.7	
10			0.80		1.07				0.9						1.7	
11			0.76		1.06				0.9						1.6	
12			0.78		1.13				0.9						1.7	
13			0.77		1.02				0.8						1.6	
14			0.76		1.03				0.9						1.7	
15			0.76		1.07				0.9						1.7	
16			0.79		1.09				0.9						1.7	
17			0.77		1.23				0.8						1.8	
18			0.77		1.16				1.0						1.9	
19			0.74		1.08				1.0						1.7	
20			0.75		1.07				0.9						1.7	
21			0.75		1.16				0.8						1.7	
22			0.77		1.10				0.9						1.7	
23			0.85		1.09				0.9						1.8	
24			0.78		1.05				0.9						1.7	
25			0.77		1.02				1.0						1.8	
26			0.72		1.11				0.8						1.6	
27			0.74		1.11				0.9						1.7	
28			0.73		1.10				0.9						1.7	
29																
30																
31																
AVG			0.77		1.09				0.9						1.7	
MAX			0.85		1.23				1.0						1.9	
MIN			0.72		1.02				0.7						1.6	



**Chemical Analyses**

**WSSN 2310**

**Dec-16**

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	39	40	41	42	43	44
1	7.38	7.36		100		70		30		0.01		32.9		4.4		13
2	7.38	7.28		100		68		32		0.01		32.9		4.4		13
3	7.33	7.25		98		70		28		0.01		32.1		4.4		12
4	7.40	7.27		98		70		28		0.01		32.1		4.4		12
5	7.39	7.34		96		70		26		0.01		35.3		1.9		12
6	7.34	7.31		96		68		28		0.01		32.1		3.4		12
7	7.36	7.29		96		70		26		0.01		30.5		4.9		13
8	7.38	7.29		96		70		26		0.01		32.9		3.4		13
9	7.40	7.28		96		68		28		0.01		32.1		3.9		13
10	7.37	7.28		96		70		26		0.01		33.7		2.9		13
11	7.36	7.25		98		68		30		0.01		33.7		3.4		12
12	7.50	7.33		98		70		28		0.01		31.3		4.9		13
13	7.39	7.29		96		70		26		0.01		31.3		4.4		13
14	7.48	7.30		96		70		26		0.02		33.7		2.9		13
15	7.51	7.32		100		72		28		0.01		33.7		3.9		13
16	7.54	7.35		98		70		28		0.02		33.7		3.4		13
17	7.38	7.25		98		70		28		0.01		30.5		5.3		13
18	7.32	7.26		98		72		26		0.01		32.1		4.4		13
19	7.49	7.30		96		70		26		0.01		32.1		3.9		13
20	7.35	7.28		96		70		26		0.02		32.9		3.4		13
21	7.41	7.25		96		70		26		0.01		34.5		2.4		12
22	7.38	7.29		98		72		26		0.01		32.9		3.9		13
23	7.48	7.35		100		70		30		0.01		33.7		3.9		12
24	7.37	7.22		100		68		32		0.01		33.7		3.9		12
25	7.43	7.29		98		68		30		0.01		33.7		3.4		12
26	7.40	7.28		96		68		28		0.01		33.7		2.9		13
27	7.47	7.30		98		68		30		0.01		31.3		4.9		13
28	7.47	7.30		94		68		26		0.01		30.5		4.4		13
29																
30																
31																
AVG	7.41	7.29		97		70		28		0.01		32.7		3.8		13
MAX	7.54	7.36		100		72		32		0.02		35.3		5.3		13.0
MIN	7.32	7.22		94		68		26		0.01		30.5		1.9		12.0



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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	2 / 0			0.21	12.9					
2					2 / 0	2 / 0			0.20	13.0					
3					2 / 0	2 / 0			0.20	12.9					
4					2 / 0	2 / 0			0.21	12.9					
5					2 / 0	2 / 0			0.21	12.5					
6					2 / 0	2 / 0	< 2		0.20	12.7					
7					2 / 0	2 / 0			0.21	12.5					
8					2 / 0	2 / 0			0.21	12.0					
9					2 / 0	2 / 0			0.20	12.0					
10					2 / 0	2 / 0			0.20	12.0					
11					2/0	2/0			0.20	11.8					
12					2 / 0	2 / 0			0.20	11.9					
13					2 / 0	2 / 0	< 2		0.20	12.9					
14					2 / 0	2 / 0			0.20	12.4					
15					2 / 0	2 / 0			0.20	10.8					
16					2 / 0	2 / 0			0.21	10.5					
17					2 / 0	2 / 0			0.20	10.7					
18					2 / 0	2 / 0			0.20	10.5					
19					2 / 0	2 / 0			0.20	11.0					
20					2 / 0	2 / 0			0.21	10.3					
21					2 / 0	2 / 0	< 2		0.21	10.3					
22					2 / 0	2 / 0			0.21	9.7					
23					2 / 0	2 / 0			0.20	8.8					
24					2 / 0	2 / 0			0.21	8.5					
25					2 / 0	2 / 0			0.21	8.9					
26					2 / 0	2 / 0			0.20	10.3					
27					2 / 0	2 / 0			0.20	10.0					
28									0.20	10.9					
29															
30															
31															
AVG									0.20	11.3					
MAX									0.21	13.0					
MIN									0.20	8.5					



**Distribution System Monitoring      WSSN 2310      Dec-16**

D A T E	Free Chlorine Residual at Bacteriological Monitoring Stations mg/l										
	1	2	3	4	5	6	7	8	CS	WR**	Number of Samples
1	1.65	1.44	1.54	1.33	1.13	0.46	1.57	1.62	1.19	0.83	10
2											0
3											0
4											0
5											0
6	1.56	1.42	1.41	1.32	1.04	0.48	1.33	1.35	1.62	1.27	10
7	1.57	1.52	1.37	1.29	1.18	0.53	1.42	1.52	1.54	1.16	10
8	1.58	1.54	1.41	1.35	1.16	0.48	1.38	1.60	1.26	0.83	10
9											10
10											0
11											0
12											0
13	1.54	1.40	1.46	1.40	1.24	0.45	1.50	1.49	1.30	0.85	10
14	1.54	1.30	1.50	1.35	1.21	0.60	1.48	1.44	1.55	1.19	10
15	1.57	1.58	1.45	1.45	1.21	0.66	1.39	1.55	1.32	0.92	10
16											0
17											0
18											0
19				1.51	1.28				1.59		3
20							1.61	1.60		1.13	3
21	1.68	1.46	1.45			0.55					4
22											0
23											0
24											0
25											0
26											0
27											0
28	1.68	1.43	1.54	1.47	1.35	0.98	1.65	1.58	1.55	1.35	10
29											0
30											0
31											0
<b>Monthly Cl<sub>2</sub> Avg.</b>				<b>1.32</b>		**Midway Market is being used until West Side Reservoir activities are complete and until further notice (11/15/2016)				*On 12/8/16, Premier Insurance was used. Water was shut of at Liquor Palace.	
<b>Total Samples</b>				<b>90</b>							



**Distribution System Monitoring      WSSN 2310      Dec-16**

D A T E	Total Chlorine Residual at Bacteriological Monitoring Stations mg/l										
	1	2	3	4	5	6	7	8	CS	WR**	Number of Samples
1	1.83	1.59	1.66	1.53	1.30	0.61	1.80	1.75	1.32	0.92	10
2											0
3											0
4											0
5											0
6	1.68	1.62	1.69	1.51	1.33	0.63	1.50	1.60	1.80	1.40	10
7	1.77	1.65	1.56	1.41	1.35	0.73	1.69	1.72	1.74	1.31	10
8	1.82	1.66	1.68	1.47	1.37	0.67	1.66	1.74	1.40	0.99	10
9											0
10											0
11											0
12											0
13	1.74	1.65	1.70	1.66	1.41	0.55	1.63	1.67	1.57	1.27	10
14	1.80	1.40	1.76	1.63	1.46	0.74	1.65	1.69	1.81	1.46	10
15	1.79	1.70	1.69	1.62	1.39	0.80	1.54	1.70	1.49	1.09	10
16											0
17											0
18											0
19				1.67	1.44				1.71		3
20							1.75	1.69		1.31	3
21	1.79	1.61	1.63			0.72					4
22											0
23											0
24											0
25											0
26											0
27											0
28	1.80	1.57	1.71	1.58	1.48	1.09	1.78	1.71	1.69	1.47	10
29											0
30											0
31											0
<b>Monthly Cl<sub>2</sub> Avg.</b>				<b>1.50</b>		**Midway Market is being used until West Side Reservoir activities are complete and until further notice (11/15/2016)				*On 12/8/16, Premier Insurance was used. Water was shut of at Liquor Palace.	
<b>Total Samples</b>				<b>90</b>							



**ROUTINE POSITIVE DISTRIBUTION SAMPLES**

**Dec-16**

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>90</b>						
Total number of routine distribution samples required:				<b>100</b>						