ILLINOIS ENVIRONMENTAL PROTECTION AGENCY **Well #4 (0990500)** **Nov-24**

DIVISION OF PUBLIC WATER SUPPLIES

MONTHLY IRON REMOVAL AND ION EXCHANGE SOFTENING REPORT
ON City of Marseilles
FOR MONTH OF November **2024**

	RAW WATER			CHEMICALS APPLIED								FILTERS						SOFTENERS								CHEMICAL TESTS																		Remarks
				Chlorine		Fluoride		Poly-Phosphates		HMO		Each day indicate total number of hours since previous backwash. If backwashed at mid-day indicate "hours previous" / "hours following"					Wash Water Used			Each day indicate total number of hours since previous regeneration. If regenerated at mid-day, indicate hours previous/hours following.				Softener Regeneration		RAW					FINISHED													Use reverse side for additional remarks
Date	Time Meter Read	Meter Reading (1000 Gal)	Water Treated (1000 Gal)	Am't Used lbs. or Gal.	Calc mg/l	Am't Used lbs. or Gal.	Calc mg/l	Am't Used lbs. or Gal.	Calc mg/l	Am't Used lbs. or Gal.	Calc mg/l	1	2	3	4	5		Water Softened Gal.	Water By-passed Gal.	1	2	3	4	5	Wash Water Gal.	Ph	Tot . Alk. As $CaCo_3$ mg/l	Tot. Hard. As $CaCO_3$ mg/l	Fe mg/l	Mn mg/l	pH	Alk as ($CaCO_3$) P	Alk as ($CaCO_3$) Tot	Tot Hard as ($CaCO_3$) mg/l	Fe mg/l	Mn mg/l	f mg/l	Plant/Dist. Cl res. F = Free mg/l	Plant/Dist. Cl res. F = Free mg/l	PO_4	$CaCO_3$ Stability pH	as $CaCO_3$ mg/l P	as $CaCO_3$ mg/l Tot	
a	b	c	d	e	f	g	h	l	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y		z	aa	bb	cc	dd	ee	ff	gg	hh	ii	jj	kk	ll	mm	nn	oo	pp	qq	rr
0	840	10236000	258000	14.00	6.51	3.50	0.32	15.50	2.45	75.32	1.05	24	24	24	24	24	0									7.00			0.22	0.96	7.10				0.01	0.02	0.86	1.57	1.29	0.85				
1	850	1023722	122000	4.00	3.93	0.50	0.10	6.50	2.17	27.75	0.82	48	48	48	48	48	0									7.10			0.26	0.92	7.10				0.00	0.02	0.74	1.22	1.29	0.74				
2	1005	1023828	106000	5.00	5.66	0.50	0.11	6.00	2.31	27.75	0.94	72	72	72	72	72	0									7.00			0.20	0.86	7.10				0.00	0.02	0.76	1.39	1.13	0.93				
3	745	1023917	89000	4.20	5.66	1.00	0.27	5.50	2.52	25.76	1.04	96	96	96	96	96	0									7.10			0.28	1.04	7.10				0.00	0.02	0.83	1.34	1.26	0.88				
4	905	1024022	105000	5.60	6.39	1.50	0.34	6.00	2.33	27.75	0.95	120	120	120	120	120	0									7.40			0.14	1.02	7.10				0.01	0.02	0.94	1.44	1.26	0.94				
5	830	1024140	118000	6.00	6.10	2.00	0.40	7.50	2.59	35.67	1.09	144	144	144	144	144	0									7.20			0.21	0.96	7.10				0.00	0.02	0.84	1.63	1.27	0.94				
6	830	1024243	103000	4.40	5.12	1.50	0.35	6.00	2.37	29.73	1.04	X	X	X	X	X	13665									7.20			0.14	1.08	7.10				0.00	0.02	0.86	1.59	1.17	0.95				Backwash
7	835	1024463	220000	10.80	5.89	1.50	0.16	13.00	2.41	69.37	1.13	24	24	24	24	24	0									7.30			0.19	0.96	7.20				0.00	0.02	1.00	1.27	1.12	1.07				
8	830	1024552	89000	4.40	5.93	1.50	0.40	4.50	2.06	19.82	0.80	48	48	48	48	48	0									7.30			0.15	1.04	7.30				0.00	0.02	0.80	1.49	1.14	0.84				
9	730	1024621	69000	3.60	6.26	0.50	0.17	4.00	2.36	17.83	0.93	72	72	72	72	72	0									7.20			0.17	0.98	7.10				0.00	0.02	0.85	1.70	1.16	0.85				
10	810	1024705	84000	5.00	7.14	1.50	0.42	4.50	2.18	21.80	0.93	96	96	96	96	96	0									7.10			0.14	0.98	7.00				0.00	0.02	0.74	1.60	1.09	0.99				
11	815	1024796	91000	4.40	5.80	1.00	0.26	5.50	2.46	19.82	0.78	120	120	120	120	120	0									7.20			0.20	0.90	7.10				0.00	0.02	0.74	1.70	1.14	0.94				
12	835	1024884	88000	3.60	4.91	0.50	0.13	5.00	2.32	21.80	0.89	144	144	144	144	144	0									7.10			0.19	0.98	7.20				0.01	0.02	0.79	1.47	1.16	0.95				
13	830	1024972	88000	4.20	5.72	1.00	0.27	5.00	2.32	19.82	0.81	x	x	x	x	x	13665									7.20			0.20	1.04	7.10				0.00	0.02	0.65	1.75	1.19	0.75				Backwash
14	815	1025225	253000	14.40	6.82	3.00	0.28	15.00	2.42	67.39	0.96	24	24	24	24	24	0									7.20			0.13	0.94	7.10				0.00	0.02	0.69	1.50	1.14	0.85				
15	815	1025427	202000	10.00	5.94	2.00	0.24	12.00	2.42	65.41	1.16	48	48	48	48	48	0									7.20			0.11	0.94	7.10				0.00	0.02	0.67	1.37	1.24	1.04				
16	815	1025539	112000	6.00	6.42	1.50	0.32	7.00	2.55	31.70	1.02	72	72	72	72	72	0									7.20			0.15	0.90	7.10				0.00	0.02	0.78	1.60	1.22	0.80				
17	815	1025640	101000	5.20	6.17	1.00	0.24	5.50	2.22	25.70	0.92	96	96	96	96	96	0									7.20			0.18	0.90	7.10				0.00	0.02	0.79	1.65	1.21	0.88				
18	820	1025747	107000	5.40	6.05	1.00	0.22	6.50	2.48	33.69	1.13	120	120	120	120	120	0									7.20			0.19	0.94	7.10				0.00	0.02	0.71	1.66	1.19	0.94				
19	855	1025878	131000	6.60	6.04	1.50	0.27	7.50	2.33	33.69	0.93	144	144	144	144	144	0									7.20			0.19	0.96	7.10				0.01	0.02	0.70	1.29	1.23	0.90				
20	910	1025974	96000	4.40	5.50	1.00	0.25	6.00	2.55	25.76	0.97	x	x	x	x	x	13665									7.20			0.22	0.82	7.20				0.01	0.01	0.77	1.63	1.22	0.80				Backwash
21	900	1026196	222000	10.60	5.73	1.00	0.11	12.50	2.30	69.37	1.12	24	24	24	24	24	0									7.20			0.11	0.92	7.20				0.00	0.02	0.83	1.80	1.26	1.02				
22	915	1026292	96000	5.00	6.25	1.00	0.25	5.00	2.12	29.73	1.11	48	48	48	48	48	0									7.30			0.14	0.96	7.10				0.00	0.02	0.86	1.19	1.16	1.06				
23	745	1026365	73000	3.60	5.91	1.00	0.33	4.50	2.51	11.89	0.59	72	72	72	72	72	0									7.30			0.16	0.98	7.30				0.00	0.02	0.82	1.50	1.14	0.98				
24	740	1026448	83000	4.40	6.36	1.00	0.29	5.00	2.46	17.83	0.77	96	96	96	96	96	0									7.20			0.17	0.84	7.10				0.00	0.02	0.87	1.34	1.14	0.94				
25	920	1026544	96000	5.20	6.49	1.00	0.25	5.50	2.34	23.78	0.89	120	120	120	120	120	0									7.10			0.24	0.88	7.10				0.00	0.02	0.86	1.36	1.09	1.01				
26	815	1026664	120000	6.00	6.00	0.50	0.10	7.00	2.38	25.76	0.77	144	144	144	144	144	0									7.10			0.17	0.80	7.00				0.00	0.02	0.69	1.52	1.18	0.81				
27	815	1026788	124000	6.60	6.38	1.00	0.19	7.00	2.30	31.71	0.92	x	x	x	x	x	13665									7.20			0.16	1.02	7.30				0.00	0.02	0.77	1.62	1.22	0.92				Backwash
28	750	1027051	263000	13.40	6.11	3.00	0.27	16.00	2.48	89.10	1.22	24	24	24	24	24	0									7.20			0.18	0.86	7.20				0.00	0.02	0.83	1.28	1.24	0.91				
29	900	1027136	85000	4.40	6.21	0.50	0.14	4.50	2.16	21.80	0.92	48	48	48	48	48	0									7.20			0.22	1.00	7.20				0.00	0.02	0.81	1.60	1.24	1.12				
30	1005	1027229	93000	4.60	5.93	0.50	0.13	4.50	1.97	29.73	1.15	72	72	72	72	72	0									7.10			0.21	0.84	7.10				0.00	0.02	0.89	1.42	1.18	1.03				
Total			**3629000**	**181.00**		**36.00**		**210.00**		**998.71**							54660																												
Max.			**263000**	**14.40**	**7.14**	**3.00**	**0.42**	**16.00**	**2.59**	**89.10**							13665									**7.40**			**0.28**	**1.08**	**7.30**				**0.01**	**0.02**	**1.00**	**1.80**	**1.29**	**1.12**				
Min.			**69000**	**3.60**	**3.93**	**0.50**	**0.10**	**4.00**	**1.97**	**11.89**							0									**7.00**			**0.11**	**0.80**	**7.00**				**0.00**	**0.01**	**0.65**	**1.19**	**1.09**	**0.74**				
Ave.			**120967**	**6.03**	**5.96**	**1.20**	**0.24**	**7.00**	**2.35**	**33.29**							1822									**7.19**			**0.18**	**0.94**	**7.13**				**0.00**	**0.02**	**0.80**	**1.50**	**1.19**	**0.93**				

*Enter Final Reading Last Month

POINT OF APPLICATION

METER LOCATION:

1. 100 % Chlorine Solution Fed
2. 23 % Fluoride Solution Fed
3. 34 % Poly Solution Fed
4. 3 % HMO Solution Fed

CHLORINATION

Type of Chlorine Used

- [X] Chlorine Gas
- [ ] Calcium Hypochlorite ____%
- [ ] Sodium Hypochlorite ____%

Chlorine Test Kit Used: Hach

FLUORIDATION

Type of Fluoride Used

- [X] Hydrofluosilicic Acid 23 %F
- [ ] Sodium Fluoride ____%F
- [ ] Other _____

Type of Test Instrument Used: Hach

This Agency is authorized to require this information under Il. Rev. Stat. 1979, Ch. 111 1/2, Section 1019. Disclosure of this information is required. Failure to do so may result in a civil penalty up to $10,000.00 and an additional civil penalty up to $1,000.00 for each day the failure continues, a fine up to 1,000.00 and imprisonment up to one year. This form has been approved by the forms Management Center

I certify that the information in this report is complete and accurate to the best of my knowledge.

Reported by: (Signature) 251169999 Cert. Or Reg. No.

Phone: 815-795-0215 Date Monthly Bacterials Sent 11-4-2024