

CITY OF CHICAGO - DEPARTMENT OF WATER MANAGEMENT - BUREAU OF WATER SUPPLY
 WATER QUALITY DIVISION-WATER PURIFICATION LABORATORIES
 LABORATORY ACCREDITATION NUMBER: 100228

SAMPLE COLLECTION DATE: 11/15/2007 (4th Qtr)

PARAMETER	IEPA MCL	DETERMINED AS	STORET NUMBER	SOUTH WATER PURIFICATION PLANT				JARDINE WATER PURIFICATION PLANT				
				RAW LAKE	OUTLETS		***DISTRIBUTION	RAW LAKE	OUTLETS		***DISTRIBUTION	
					73rd Street	79th Street	SOUTH		North	Central	North	Central
TEMPERATURE		°C	00010	11	12	12	12	8	10	10	12	12
TURBIDITY	0.5	N.T.U.	82079	4.10	0.10	0.10	0.25	3.35	0.10	0.10	0.10	0.10
THRESHOLD ODOR, STRAIGHT	*3	T.O.N	00086		2Cc	2Cc	1Cc		2Cc	2Cc	2Cc	2Cc
THRESHOLD ODOR, DECHLORINATED	*3	T.O.N.		1M	1/2M	1M	1M	1/2M	1/2M	1/2M	1/2M	1M
COLOR	*15	Pt.-Co. Units	00080	0	0	0	0	0	0	0	0	0
pH	*6.5-8.5	STD. Units	00040	8.10	7.53	7.48	7.66	8.15	7.54	7.55	7.78	7.66
FREE CHLORINE RESIDUAL		CL ₂ , mg/L	50064	0	0.96	0.96	0.70	0	1.00	1.00	0.70	0.71
SATURATION INDEX, LANGELIER		UNITS +/-		-0.08	-0.66	-0.71	-0.52	-0.08	-0.70	-0.71	-0.39	-0.53
ALKALINITY, PHENOLPHTHALEIN		CaCO ₃ , mg/L	00415	0	0	0	0	0	0	0	0	0
ALKALINITY, TOTAL		CaCO ₃ , mg/L	00410	111	101	102	100	109	101	101	103	99
BROMIDE		Br, mg/L	71870	0.028	<0.01	<0.01	<0.01	0.026	<0.01	<0.01	<0.01	<0.01
CHLORIDE	*250	Cl, mg/L	00940	11.9	13.3	13.3	13.3	11.3	12.9	12.9	12.9	12.9
FLUORIDE	4	F, mg/L	00951	0.16	0.87	0.88	0.88	0.16	0.88	0.88	0.93	0.90
SULFATE	*250	SO ₄ , mg/L	00945	23.5	30.6	30.1	29.8	23.0	29.4	28.9	28.7	29.2
HARDNESS		CaCO ₃ , mg/L	00900	133	129	130	131	135	131	130	130	129
CALCIUM		Ca, mg/L	00916	32.4	32.6	33.4	33.6	34.7	33.2	32.2	34.4	34.1
MAGNESIUM		Mg, mg/L	00927	12.2	12.1	11.9	12.3	13.1	12.3	12.2	12.5	12.4
POTASSIUM		K, mg/L	00937	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.6	1.4
SODIUM		Na, mg/L	00006	6.6	7.1	7.2	7.1	6.7	7.0	6.9	7.0	6.8
SOLIDS, TOTAL DISSOLVED	*500	TDS, mg/L	00150	140	142	130	147	153	153	149	136	142
SOLIDS, TOTAL		Tot. Sol., mg/L	00500	156	128	148	168	152	156	160	145	150
TOTAL ORGANIC CARBON		NPOC, mg/L	00680	1.89	1.61	1.60	1.60	1.83	1.58	1.58	1.63	1.60
OXYGEN DEMAND, CHEMICAL		O, mg/L	00335	<5	<5	<5	<5	<5	<5	<5	<5	<5
NITROGEN, AMMONIA		N, mg/L	00610	o/s	o/s	o/s	o/s	o/s	o/s	o/s	o/s	o/s
NITROGEN, NITRATE	10	N, mg/L	00620	0.301	0.278	0.278	0.275	0.295	0.284	0.285	0.281	0.281
NITROGEN, NITRITE	1	N, mg/L	00615	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
NITROGEN, TOTAL KJELDAHL		N, mg/L	00625	o/s	o/s	o/s	o/s	o/s	o/s	o/s	o/s	o/s
ORTHOPHOSPHATE		PO ₄ , mg/L	00660	<0.05	0.426	0.471	0.458	<0.05	0.424	0.424	0.441	0.439
PHOSPHATE, TOTAL		PO ₄ , mg/L	00650	<0.05	0.968	0.855	0.958	<0.05	0.945	0.915	0.862	0.858
CYANIDE, TOTAL	200	CN, ug/L	00720	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
RADIOACTIVITY, GROSS ALPHA	15	pCi/L	01501	<1	<1	<1	<1	<1	1	<1	<1	<1
RADIOACTIVITY, GROSS BETA	50	pCi/L	03501	5	5	5	5	5	5	5	5	5

* Federal/State Secondary MCL's

** Action Level

***Distribution samples are composited.

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				RAW LAKE	OUTLETS		***DISTRIBUTION	RAW LAKE	OUTLETS		***DISTRIBUTION	
					73rd Street	79th Street	South		North	Central	North	Central
ALUMINUM		Al, µg/L	01105	145	37	35	36	124	37	38	32	30
ANTIMONY	6	Sb, µg/L	01268	<1	<1	<1	<1	<1	<1	<1	<1	<1
ARSENIC	10	As, µg/L	01002	<1	<1	1	<1	<1	<1	<1	<1	<1
BARIUM	2000	Ba, µg/L	01007	23	23	23	23	24	23	22	22	22
BERYLLIUM	4	Be, µg/L	01012	2	2	2	2	2	2	2	2	2
BORON		B, µg/L	01022	22	28	22	21	21	24	21	22	20
CADMIUM	5	Cd, µg/L	01027	<1	<1	<1	<1	<1	<1	<1	<1	<1
CHROMIUM	100	Cr, µg/L	01034	6	4	3	4	6	<1	2	<1	1
COBALT		Co, µg/L	01037	<1	<1	<1	<1	<1	<1	<1	<1	<1
COPPER	**1300	Cu, µg/L	01042	<1	<1	1	2	5	<1	2	<1	<1
IRON	*300	Fe, µg/L	00031	60	25	39	88	103	56	27	48	37
LEAD		Pb, µg/L	01051	<1	<1	<1	<1	<1	<1	<1	<1	<1
LITHIUM		Li, µg/L	01132	3	3	3	3	3	3	3	3	3
MANGANESE	*50	Mn, µg/L	01055	1	<1	<1	<1	2	<1	<1	<1	<1
MERCURY	2	Hg, µg/L	71900	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
MOLYBDENUM		Mo, µg/L	01062	4	3	2	3	2	3	2	2	3
NICKEL	100	Ni, µg/L	01067	<1	<1	<1	<1	8	<1	<1	<1	<1
SELENIUM	50	Se, µg/L	01147	<1	<1	1	<1	<1	<1	<1	<1	<1
SILICON		Si, µg/L	01142	1061	1240	1206	1261	876	1174	1205	1201	1230
SILVER	*100	Ag, µg/L	01077	<1	<1	<1	<1	<1	<1	<1	<1	<1
STRONTIUM		Sr, µg/L	01082	117	120	122	120	117	116	118	112	118
THALLIUM	2	Tl, µg/L	01059	<1	<1	<1	<1	<1	<1	<1	<1	<1
TITANIUM		Ti, µg/L	01152	<1	<1	<1	<1	<1	<1	<1	<1	<1
VANADIUM		V, µg/L	00985	2.2	1.5	1.2	1.4	1	<1	<1	<1	<1
ZINC	*5000	Zn, µg/L	01092	4	15	63	15	<4	<4	<4	51	50

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Rashedi Palt

CHIEF WATER CHEMIST

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