

**2012 WATER QUALITY TABLE
MEMPHIS LIGHT, GAS, AND WATER**

ANALYTES PRIMARY STANDARDS - MANDATORY HEALTH-RELATED STANDARDS	MAXIMUM	SHEAHAN	ALLEN	MCCORD	MALLORY	LICHTERMAN	DAVIS	MORTON	PALMER	LNG	SHAW	AVERAGE FOR
	CONTAMINANT LEVEL	STATION	STATION	STATION	STATION	STATION	STATION	STATION	STATION	PLANT	STATION	ALL TREATMENT PLANTS
CLARITY												
TURBIDITY (NTU)	2.0	0.14	0.17	0.22	0.56	0.15	0.16	0.14	0.12	0.13	0.53	0.23
MICROBIOLOGICAL												
TOTAL COLIFORM (Colonies/100 mL)	(a)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
FECAL COLIFORM (Colonies/100 mL)	(a)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ORGANIC CHEMICALS (mg/L)												
PESTICIDES**												
ALACHLOR	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ATRAZINE	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLORDANE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ENDRIN	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTACHLOR	0.0004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEPTACHLOR EPOXIDE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
LINDANE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
METHOXYCHLOR	0.04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYCHLORINATED BIPHENYLS (PCB'S)	0.0005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SIMAZINE	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOXAPHENE	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEMI-VOLATILE ORGANIC COMPOUNDS**												
BENZO(a)-PYRENE	0.0002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI(2-ETHYLHEXYL) ADIPATE	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DI(2-ETHYLHEXYL) PHTHALATE	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBENZENE	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROCCYCLOPENTADIENE	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS**												
BENZENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHYLENE	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHYLENE	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHYLENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DICHLOROMETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MONOCHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
STYRENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHYLENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHYLENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL XYLENES	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL TRIHALOMETHANES**	0.080	0.005	0.012	0.003	0.004	0.006	ND	0.012	0.011	0.012	0.001	0.007
INORGANIC CHEMICALS (mg/L)												
ALUMINUM	0.2	0.003	0.017	0.010	0.005	0.015	0.150	0.027	0.009	0.007	0.019	0.026
ANTIMONY	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM	2.0	0.033	0.050	0.031	0.043	0.018	0.067	0.064	0.027	0.020	0.012	0.037
BERYLLIUM	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COPPER	1.3*	0.002	0.015	0.003	0.001	0.004	0.004	0.004	0.03	0.013	0.003	0.008
LEAD	0.015*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MANGANESE	0.05	0.002	0.008	0.004	0.006	0.003	0.004	0.002	0.007	0.011	0.003	0.005
MERCURY**	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOLYBDENUM	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	2.1	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND
POTASSIUM**	NS	0.51	0.57	0.63	0.53	0.39	0.79	0.78	0.82	0.79	0.44	0.63
SILVER	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM	0.002	0.0010	0.0008	0.0008	0.0008	0.0008	0.0008	0.0010	0.0009	0.0009	0.001	0.0009
ZINC	5.00	0.0008	0.0008	0.0007	0.0006	0.0028	0.0030	0.0005	0.0200	0.0020	0.0005	0.0032
CHEMICAL PARAMETERS												
CHLORIDE (mg/L)	250	5.3	4.7	4.1	2.8	6.8	4.1	2.2	4.5	2.6	5.4	4.3
COLOR (units - PCS)	15	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
CYANIDE**	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DETERGENTS** - MBAS (mg/L)	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FLUORIDE (mg/L)	4.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0
IRON (mg/L)	0.3	0.03	0.02	0.05	0.04	0.02	0.03	0.02	0.02	0.02	0.03	0.03
NITRATE (as Nitrogen)	10.0	ND	ND	ND	ND	0.39	ND	ND	ND	ND	ND	ND
NITRITE (as Nitrogen)	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ODOR** (TON)	3.0	1.3	1.7	1.3	1.1	1.3	1.4	1.3	2.0	1.5	1.8	1.5
pH (units)	6.5 - 8.5	7.2	7.3	7.2	7.4	7.1	7.4	7.4	7.1	7.1	7.3	7.3
SODIUM**	NS	6.8	9.0	8.7	7.6	7.3	7.6	5.8	8.9	6.5	5.6	7.4
SPECIFIC CONDUCTANCE (umho/cm @ 25°C)	X900	116	159	132	151	116	247	143	104	82	76	133
SULFATE (mg/L)	250	14.5	15.5	16.3	10.3	16.1	12.2	12.7	15.3	14.0	11.8	13.9
TOTAL DISSOLVED SOLIDS (mg/L)	500	66	91	72	71	63	115	66	64	76	50	73
ADDITIONAL PARAMETERS												
ALKALINITY as CaCO3(mg/L)	NS	43	65	46	62	35	118	60	39	33	23	52
CALCIUM (mg/L)	NS	5.8	10.2	6.8	9.0	4.8	21.9	10.8	4.5	5.7	2.0	8.2
HARDNESS as CaCO3 (mg/L)	NS	39	62	44	54	32	111	55	31	32	20	48
HARDNESS (grains/gal)	NS	2.3	3.6	2.6	3.2	1.9	6.5	3.2	1.8	1.9	1.2	2.8
MAGNESIUM	NS	6.0	8.9	6.6	7.7	4.9	13.7	6.8	4.8	4.3	3.6	6.7
PHENOLS** (mg/L)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHOSPHATE (mg/L)	NS	1.1	1.0	1.0	1.1	1.1	1.0	0.9	1.2	1.5	1.1	1.1
SILICA** (mg/L)	NS	13.0	10.2	11.5	11.0	13.1	13.5	11.8	11.2	9.8	10.5	11.6
TEMPERATURE (° C)	NS	18.9	18.6	18.5	19.4	18.5	18.0	19.1	17.6	17.7	18.1	18.4
TEMPERATURE (° F)	NS	66.0	65.5	65.3	66.9	65.3	64.4	66.4	63.7	63.9	64.6	65.2
TOTAL ORGANIC CARBON** (mg/L)	NS	0.383	0.495	0.398	0.476	0.339	0.636	0.421	0.290	0.289	0.205	0.393

KEY TO ABBREVIATIONS

NTU = Nephelometric Turbidity Units, a measure of the suspended material in water.
(a) = No more than 5.0% of the monthly samples may be total-coli-form positive.
< = Less Than
mg/L = Milligrams Per Liter (parts per million)
ND = Below Method Detection Limit
* = Action Level. The Federal and State standards for lead and copper are treatment techniques requiring agencies to optimize corrosion control treatment.
umho/cm = Micromhos per centimeter
X = Recommended Level
NS = No Standard
PCS = Platinum-Cobalt Standard
TON = Threshold Odor Number
**Sample analysis was not required in 2012. Shown is most recent data collected.