2010 WATER QUALITY TABLE
MEMPHIS LIGHT, GAS, AND WATER

ANALYTES	MAXIMUM CONTAMINANT LEVEL	SHEAHAN STATION	ALLEN STATION	MCCORD STATION	MALLORY STATION	LICHTERMAN STATION	DAVIS STATION	MORTON STATION	PALMER STATION	LNG PLANT	SHAW STATION	AVERAGE FOR ALL TREATMENT PLANTS
PRIMARY STANDARDS - MANDATORY HEALTH-RELATED STANDARDS												
CLARITY												
TURBIDITY (NTU)	2.0	0.12	0.12	0.15	0.22	0.15	0.21	0.13	0.12	0.12	0.13	0.15
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
HEXACHLOROCYCLOPENTADIENE	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	0.015	0.001	0.003	0.003	0.007	0.014	0.008	ND	0.014	0.006	0.007
INORGANIC CHEMICALS (mg/L)**												
ALUMINUM	0.2	0.005	ND	ND	ND	ND	0.003	ND	ND	ND	0.003	0.004
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	0.037	0.052	0.028	0.032	0.010	0.070	0.048	0.025	0.048	0.004	0.035
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*	0.022	0.002	0.008	0.002	0.001	0.001	0.001	0.001	0.001	0.002	0.004
LEAD	0.015*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	NS	2.35	4.96	3.68	3.61	1.87	10.01	3.56	2.47	2.80	1.07	3.64
MANGANESE	0.05	0.012	ND	0.004	ND	ND	ND	0.003	ND	0.012	0.001	0.006
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	0.1	ND	ND	ND	ND	ND	ND	ND	ND	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ZINC	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHEMICAL PARAMETERS												
CHLORIDE (mg/L)	250	9.0	8.5	10.1	4.8	16.8	9.3	4.7	8.6	6.0	9.1	8.7
COLOR** (units - PCS)	15	3.0	1.0	4.0	2.0	3.0	1.0	3.0	1.0	2.0	2.0	2.2
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	1.1	1.0	1.0	1.0	1.1	1.0	1.0	1.0	1.1	1.0
IRON (mg/L)	0.3	0.05	0.03	0.05	0.05	0.04	0.06	0.05	0.02	0.03	0.04	0.04
NITRATE (as Nitrogen)	10.0	ND	ND	ND	ND	0.76	ND	ND	ND	ND	0.73	0.15
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	7.2	7.2	7.3	7.1	7.5	7.3	7.1	7.2	7.1	7.2
SODIUM	NS	5.5	6.1	5.7	6.3	6.8	7.1	4.4	6.1	5.3	6.0	5.9
SPECIFIC CONDUCTANCE (umho/cm @ 25°C)	X900	116	155	130	143	102	277	138	109	88	71	133
SULFATE (mg/L)	250	25.6	21.1	28.1	14.0	18.0	12.8	6.5	18.0	8.8	18.9	17.2
TOTAL DISSOLVED SOLIDS** (mg/L)	500	56.4	89.7	68.3	72.9	51.7	128.5	65.2	52.0	43.5	33.8	66.2
ADDITIONAL PARAMETERS												
ALKALINITY as CaCO3(mg/L)	NS	45	65	48	65	37	131	61	41	35	21	55
CALCIUM (mg/L)	NS	6.3	10.5	7.7	9.7	5.6	23.7	10.8	4.9	5.6	2.5	8.7
HARDNESS as CaCO3 (mg/L)	NS	37	57	41	52	32	123	50	30	29	16	47
HARDNESS (grains/gal)	NS	2.2	3.3	2.4	3.0	1.9	7.2	2.9	1.8	1.7	0.9	2.7
PHENOLS** (mg/L)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PHOSPHATE (mg/L)	NS	1.4	1.2	1.2	1.3	1.2	1.3	1.2	1.2	1.3	1.2	1.2
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 (°F)	NS	65.3	65.2	65.1	65.9	64.5	65.0	65.8	65.9	65.5	65.1	65.3
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-coliform 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 2010. Shown is most recent data collected.