



**MISSOURI  
AMERICAN WATER**

**Summary of 2010 Water Quality Characteristics**

**St. Louis County / St. Charles County**

MO6010716

**Water Leaving Treatment Facility**

<b>General Chemistry</b>				
Analyte	Units	Maximum Contaminant Level	Average of Missouri River Plants	Average of Meramec River Plants
Alkalinity, Phenolphthalein	ppm		23	23
Alkalinity, Total	ppm		53	75
Ammonia	ppm		0.72	0.72
Chlorine, Total	ppm	TT	2.6	2.7
Color	color units		6	3
Conductivity	us/cm <sup>3</sup>		421	292
Dissolved Organic Carbon	ppm		3.0	NA
Fluoride	ppm	4	1.0	1.0
Hardness, Non-carbonate	ppm		68	31
Hardness, Total	ppm		121	106
pH	su		9.8	9.7
Phosphate, Ortho	ppm		0.2	0.2
Solids, Suspended	ppm		293	NA
Solids, Total	ppm		260	162
Temperature	°F		60.4	61.5
Total Organic Carbon	ppm	TT	2.9	1.4
Turbidity	NTU	TT	0.08	0.04
UV 254	Abs		0.08	NA

<b>Metals and Inorganic Compounds</b>				
Analyte	Units	Maximum Contaminant Level	Average of Missouri River Plants	Average of Meramec River Plants
Aluminum	ppm	0.2	ND	ND
Antimony	ppb	6	0.1	0.1
Arsenic	ppb	10	0.2	ND
Barium	ppm	2	0.02	0.03
Beryllium	ppb	4	ND	ND
Boron	ppm		0.06	ND
Cadmium	ppb	5	ND	ND
Calcium	ppm		23	13
Chloride	ppm	250 (s)	23	29
Chromium, Total	ppb	100	ND	ND
Cobalt	ppm		ND	ND
Copper	ppm		ND	ND
Cyanide	ppb	200	ND	ND
Iron	ppb	300 (s)	ND	ND
Lead	ppb	TT	ND	ND
Magnesium	ppm		16	16
Manganese	ppb	50 (s)	ND	ND
Mercury	ppb	2	ND	ND
Molybdenum	ppb		2.6	0.3
Nickel	ppb		2.0	0.8
Nitrate (as Nitrogen)	ppm	10	1.6	0.4
Nitrite (as Nitrogen)	ppm	1	0.01	0.01
Potassium	ppm		6.3	ND
Selenium	ppb	50	1.2	ND
Silica	ppm		11.5	ND
Silver	ppb	100 (s)	ND	ND
Sodium	ppm		33	16
Strontium	ppm		0.2	ND
Sulfate	ppm	250 (s)	116	21
Thallium	ppb	2	ND	ND
Vanadium	ppm		ND	ND
Zinc	ppm	5 (s)	ND	ND

Synthetic Organic Contaminants Including Pesticides and Herbicides				
Analyte		Maximum Contaminant Level	Average of Missouri River Plants	Average of Meramec River Plants
2,4,5-T	ppm		ND	ND
2,4,5-TP (Silvex)	ppb	50	ND	ND
2,4-D	ppb	70	0.02	ND
2,4-DB	ppm		ND	ND
3,5-Dichlorobenzoic Acid	ppm		ND	ND
3-Hydroxycarbofuran	ppb		ND	ND
Acifluorfen	ppm		ND	ND
Alachlor	ppb	2	ND	ND
Aldicarb	ppb		ND	ND
Aldicarb Sulfone	ppb		ND	ND
Aldicarb Sulfoxide	ppb		ND	ND
Atrazine	ppb	3	0.2	ND
Benzo(a)pyrene [PAH]	ppt	200	ND	ND
Bentazon	ppm		ND	ND
Bromochloroacetic Acid	ppb		2.1	2.3
Carbaryl	ppb		ND	ND
Carbofuran	ppb	40	ND	ND
Dacthal	ppb		ND	ND
Dalapon	ppb	200	ND	ND
Di(2-ethylhexyl)adipate	ppb	400	ND	ND
Di(2-ethylhexyl)phthalate	ppb	6	0.1	ND
Dibromoacetic Acid	ppb		0.2	ND
Dibromochloropropane (DBCP)	ppt	200	ND	ND
Dicamba	ppb		ND	ND
Dichloroacetic Acid	ppb		11.6	11.4
Dichloroprop	ppb		ND	ND
Dinoseb	ppb	7	ND	ND
Diquat	ppb	20	ND	ND
Endothall	ppb	100	ND	ND
Endrin	ppb	2	ND	ND
Ethylene Dibromide (EDB)	ppt	50	ND	ND
Glyphosate	ppb	700	ND	ND
Heptachlor	ppt	400	ND	ND
Heptachlor Epoxide	ppt	200	ND	ND
Hexachlorobenzene	ppb	1	ND	ND
Hexachlorocyclopentadiene	ppb	50	ND	ND
Lindane	ppt	200	ND	ND
Methiocarb	ppb		ND	ND
Methomyl	ppb		ND	ND
Methoxychlor	ppb	40	ND	ND
Monobromoacetic Acid	ppb		ND	ND
Monochloroacetic Acid	ppb		1.7	1.3
Oxamyl (Vydate)	ppb	200	ND	ND
PCB 1016	ppt		ND	ND
PCB 1221	ppt		ND	ND
PCB 1232	ppt		ND	ND
PCB 1242	ppt		ND	ND
PCB 1248	ppt		ND	ND
PCB 1254	ppt		ND	ND
PCB 1260	ppt		ND	ND
PCBs, Total	ppt	500	ND	ND
Pentachlorophenol	ppb	1	ND	ND
Picloram	ppb	500	ND	ND
Simazine	ppb	4	ND	ND
Technical Chlordane	ppb	2	ND	ND
Toxaphene	ppb	3	ND	ND
Trichloroacetic Acid	ppb		0.54	1.50

Volatile Organic Compounds				
Analyte		Maximum Contaminant Level	Average of Missouri River Plants	Average of Meramec River Plants
1,1,1-Trichloroethane	ppb	200	ND	ND
1,1,2-Trichloroethane	ppb	5	ND	ND
1,1-Dichloroethylene	ppb	7	ND	ND
1,2,4-Trichlorobenzene	ppb	70	ND	ND
1,2-Dichlorobenzene (Ortho)	ppb	600	ND	ND
1,2-Dichloroethane	ppb	5	ND	ND
1,2-Dichloropropane	ppb	5	ND	ND
1,4-Dichlorobenzene (Para)	ppb	75	ND	ND
Benzene	ppb	5	ND	ND
Bromodichloromethane	ppb		2.0	4.4
Bromoform	ppb		0.05	ND
Carbon Tetrachloride	ppb	5	ND	ND
Chlorobenzene (Mono)	ppb	100	ND	ND
Chlorodibromomethane	ppb		0.5	0.9
Chloroform	ppb		9.9	26.1
cis-1,2-Dichloroethylene	ppb	70	ND	ND
Dichloromethane (Methylene Chloride)	ppb	5	ND	ND
Ethylbenzene	ppb	700	ND	ND
Methyl tert-butyl Ether (MTBE)	ppb		ND	ND
Styrene	ppb	100	ND	ND
Tetrachloroethylene (PCE)	ppb	0.005	ND	ND
Toluene	ppb	1	ND	ND
trans-1,2-Dichloroethylene	ppb	100	ND	ND
Trichloroethylene (TCE)	ppb	5	ND	ND
Vinyl Chloride	ppb	2	ND	ND
Xylenes	ppm	10	ND	ND

Radiological, 2007				
Analyte	Units	Maximum Contaminant Level	Average of Missouri River Plants	Average of Meramec River Plants
Gross Alpha	pCi/L	15	ND	ND
Radium, Combined	pCi/L	5	0.2	0.5

Water in Distribution System				
Microbiological Quality				
Analyte		Maximum Contaminant Level	Maximum Detected Missouri and Meramec Plants	
Total Coliform	%	5% Positive	0.8	
Lead & Copper Rule - Household Testing, 2010				
Analyte		Action Level	90th Percentile	
Lead (90th percentile)	ppb	15	5	
Copper (90th percentile)	ppm	1.3	0.002	
Disinfection By-Products in Distribution System (mg/L)				
Analyte		Maximum Contaminant Level	Average of Missouri River Plants	Average of Meramec River Plants
Haloacetic Acids (HAA5)	ppb	60	12.5	14.9
Total Trihalomethanes (TTHM)	ppb	80	12.4	30.4
Chlorine Residual (Chloramines)	ppm	MRDL = 4	2.6	2.7

Action Level: The concentration of a contaminant, which if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water.

NA - Not applicable

ND - Not detected

pCi/L (picocuries per liter): Measurement of the natural rate of disintegration of radioactive contaminants in water.

ppm (parts per million): One part substance per million parts water, or milligrams per liter.

ppb (parts per billion): One part substance per billion parts water, or micrograms per liter.

ppt (parts per trillion): One part substance per trillion parts water, or nanograms per liter.

(s) - Secondary standard. Non-enforceable recommended maximum level of a contaminant.

TT (Treatment Technique): A required process intended to reduce the level of a contaminant in drinking water.