

Powell Water Systems Installations WinWerks IPD Contact Development Services

EC Efficacy: Metals, Ions, Solids, Hardness, Bacteria, Radioisotopes, and Turbidity

Contaminant	Before (mg/l)	After (mg/l)	Removal Rate %	Contaminant	Before (mg/l)	After (mg/l)	Removal Rate %
Aldrin (pesticide)	0.063	ND (0.001)	98	Phosphate	28	ND (0.2)	99+
Aluminium	224	ND (0.7)	99+	Platinum	4.4	0.68	84
Ammonia	49	19.4	60	Potassium	200	110	45
Arsenic	0.076	ND (<0.002)	97	Propetamphos	80.87	0.36	99+
Barium	0.014	ND (<0.001)	93	Selenium	68	38	44
Benzene	90.1	0.36	99+	Silicon	21.07	ND (0.10)	99+
BOD5	1,050	14	98	Sulfate	104	68	34
Boron	4.86	1.41	70	Silver	0.0081	0.0006	92
Cadmium	0.125	ND (<0.004)	96	Tin	0.213	ND (<0.020)	90
Calcium	1,321	21.4	98	Toluene	28,480	0.227	99+
Chlorpyrifos	5.87	ND (0.03)	99+	TSS	1,560	8	99+
Chromium	139	ND (<0.1)	99+	Vanadium	0.262	ND (<0.002)	99+
Cobalt	0.1238	0.0214	82	Zinc	221	0.140	99+
Copper	0.7984	ND (<0.0020)	99+	Bacteria	Before (cfu)	After (cfu)	Removal Rate %
Cyanide (free)	723	ND (<0.02)	99+	Bacteria	110,000,000 cfu	2,700 cfu	99+
Cypermethrin	1.3	0.07	94	Coliform	318,000,000 cfu	ND (<1) cfu	99+
DDT	0.261	0.002	99+	E. coli	>2,419.2 mpn	ND (<0.01) mpn	99+
Diazinon	34	0.21	99+	Enterococcus	83 mpn	ND (<10.) mpn	82
Ethyl Benzene	428	0.372	99+	Total Coliform	>2,419.2 mpn	ND (<0.1) mpn	99+
Fluoride	1.1	0.415	62	Radioisotopes	Before (pCi/L)	After (pCi/L)	Removal Rate %
Gold	5.72	1.38	75	Americium-241	71.99 pCi/L	0.57 pCi/L	99+
Iron	68.34	0.19	99+	Plutonium-239	29.85 pCi/L	0.29 pCi/L	99+
Lead	0.59	0.0032	99+	Radium	1093.pCi/L	0.10 pCi/L	99+
Lindane	0.143	ND (0.001)	99+		Before mg/L	After mg/L	
Magnesium	13.15	0.04	99+	Uranium	0.13 mg/L	0.0002 mg/L	99+
Manganese	1.061	0.018	98	Dyes	Before (NTU)	After (NTU)	Removal Rate %
Mercury	0.72	ND (<0.003)	98	Ref. 006-691	125.1	12.1	90
Molybdenum	0.35	0.029	91	Ref. 006-692	129.4	2.2	98
MP-Xylene	41.6	0.057	99+	Ref. 006-854	68.30	0.68	99+
MTBE	21.58	0.0462	99+	Ref. 006-851	2,340	4.5	99+
Nickel	183	0.07	99+				
Nitrate	11.7	2.6	77				
Nitrite	21	12	42				
Nitrogen TKN	1,118	59	94				
NTU	35.38	0.32	99				
O-Xylene	191	0.416	99+				
PCB	0.0007	ND (<0.0001)	85				
Petro Hydrocarbons	72.5	ND (<0.2)	99+				

**Notes: ND = Not Detected at the Reporting
Limit mg/l = milligram per liter or part
per million pCi/L = picocuries per liter**