

Seminole Improvement Water Control District Water Treatment Plant - Water Quality Data							
Analyte	Units	RAW WATER	FINISH WATER	Laboratory MDL	MCL FDEP 62-555 F.A.C.	IRRIGATION (Blend of Concentrate and Canal Water)	CONCENTRATE
RADIOLOGICAL							
Gross Alpha	pCi/L	16.6±4.4	<0.9±0.5U	5.2	15 (including Radium 226)	1.9±1	38.6±12
Radium 226	pCi/L	6.0±0.4 *	<0.2±0.1U	0.20	5 (Radium 226 + Radium 228)	0.7±0.2	37.6±1
Radium 228	pCi/L	<0.7±0.4U	<0.8±0.5U	0.7		<0.7±0.5U	1.4±0.5
PRIMARY INORGANICS							
Antimony	mg/L	0.000810U	0.000810U	0.000810	0.006	0.000810U	0.000930I
Arsenic	mg/L	0.00225I	0.000560U	0.000560	0.01	0.00164I	0.00646
Asbestos	mg/L	0.18U	0.18U	0.18	7MFL	0.18U	
Barium	mg/L	0.131	0.00154I	0.00084	2	0.0381	0.544
Beryllium	mg/L	0.000850U	0.000850U	0.000850	0.004	0.000850U	0.000850U
Cadmium	mg/L	0.000820U	0.000820U	0.000820	0.005	0.000820U	0.000820U
Chromium	mg/L	0.00121I	0.00101U	0.00101	0.1	0.00107I	0.00289I
Cyanide, Total	mg/L	0.0024U	0.0024U	0.0024	0.2	0.0024U	
Fluoride	mg/L	0.179	0.048	0.011	4	0.22	
Lead	mg/L	0.000950I	0.000800U	0.000800	0.015	0.000800U	0.00553I
Mercury	mg/L	0.000199U	0.000199U	0.000199	0.002	0.000199U	0.000199U
Nickel	mg/L	0.00973	0.000940U	0.000940	0.1	0.00282I	0.022
Nitrate, as Nitrogen	mg/L	0.03I	0.02U	0.02	10	0.02I	
Nitrite, as Nitrogen	mg/L	0.01I	0.01U	0.01	1	0.01I	
Nitrate + Nitrite	mg/L	0.04I	0.02U	0.02	10	0.03I	
Selenium	mg/L	0.00708I	0.00293U	0.00293	0.05	0.00293U	0.0241I
Sodium	mg/L	383	27.4	0.206	160	30.7	1490
Thallium	mg/L	0.000860U	0.000860U	0.000860	0.002	0.000860U	0.000860U
SECONDARY STANDARDS							
Aluminum	mg/L	0.00865I	0.0216I	0.00569	0.2	0.0362I	0.0126I
Chloride	mg/L	689	25	0.117	250	48.4	
Copper	mg/L	0.0085I	0.00161I	0.0008	1	0.00313I	0.0441
Fluoride	mg/L	0.179	0.048	0.011	2	0.22	
Iron	mg/L	4.27	0.0454U	0.0454	0.3	0.121I	14.2
Manganese	mg/L	0.0678	0.000920U	0.000920	0.05	0.0138	0.225
Silver	mg/L	0.000820U	0.000820U	0.000820	0.1	0.000820U	0.000820U
Sulfate	mg/L	414	5.39	0.205	250	39.2	
Zinc	mg/L	0.00823I	0.00318I	0.00149	5	0.00378I	0.0475
Color (color units)	CU	24	1	1	15	68	
Odor	TON	5	10	1	3	4	
pH		7.01	9.1	0.01	6.5 - 8.5	7.35	
Total Dissolved Solids	mg/L	2120	66	16	500	390	
Foaming Agents	mg/L	0.053I	0.045U	0.045	0.5	0.053I	
Temp	C	26	25	0.1		27	
Conduct.	umhos/cm	3280	149	0.5		627	
SYNTHETIC ORGANIC CONTAMINANTS							
Dibromochloropropane (DBCP)	ug/L	0.00310U	0.00310U	0.00310	0.2	0.00310U	
Ethylene Dibromide (EDB)	ug/L	0.00640U	0.00640U	0.00640	0.02	0.00640U	
Di(2-ethylhexyl)adipate	ug/L	0.38U	0.38U	0.38	400	0.38U	
Di(2-ethylhexyl)phthalate	ug/L	0.50U	0.50U	0.50	6	0.520I	
Benzo(a)pyrene	ug/L	0.019U	0.019U	0.019	0.2	0.019U	
Oxamyl (Vydate)	ug/L	0.41U	0.41U	0.41	200	0.41U	
Carbofuran	ug/L	0.32U	0.32U	0.32	40	0.32U	
Glyphosate	ug/L	0.86U	0.86U	0.86	700	0.86U	
Endothall	ug/L	0.29U	0.29U	0.29	100	0.29U	
Diquat	ug/L	0.22U	0.22U	0.22	20	0.22U	
Endrin	ug/L	0.0020U	0.0020U	0.0020	2	0.0020U	
Lindane	ug/L	0.0051U	0.0050U	0.0051	0.2	0.0050U	
Methoxychlor	ug/L	0.021U	0.021U	0.021	40	0.021U	
Toxaphene	ug/L	0.22U	0.22U	0.22	3	0.22U	
Hexachlorobenzene	ug/L	0.025U	0.025U	0.025	1	0.025U	
Chlordane	ug/L	0.035U	0.035U	0.035	2	0.035U	
Heptachlor	ug/L	0.0081U	0.0081U	0.0081	0.4	0.0080U	
Heptachlor epoxide	ug/L	0.0040U	0.0040U	0.0040	0.2	0.0040U	
Alachlor	ug/L	0.056U	0.056U	0.056	2	0.055U	
Atrazine	ug/L	0.026U	0.026U	0.026	3	0.026U	
Hexachlorocyclopentadiene	ug/L	0.021U	0.021U	0.021	50	0.021U	
Simazine	ug/L	0.025U	0.025U	0.025	4	0.025U	
2,4-D	ug/L	0.030U	0.030U	0.030	70	0.030U	
2,4,5-TP (Silvex)	ug/L	0.080U	0.080U	0.080	50	0.080U	
Dalapon	ug/L	0.66U	0.66U	0.66	200	0.66U	
Dinoseb	ug/L	0.090U	0.090U	0.090	7	0.090U	
Pentachlorophenol	ug/L	0.010U	0.010U	0.010	1	0.010U	
Pichloram	ug/L	0.010U	0.010U	0.010	500	0.010U	
Polychlorinated Biphenyls - PCBS	ug/L	0.10U	0.10U	0.10	0.5	0.10U	

* Radium value for raw water was revised by the Laboratory from previous value of .2 ± .1 to 6.0 ± 0.4 pCi/L on September 17, 2009 - See Attachment

Laboratory MDL: Laboratory Method Detection Limit (lowest detection limit)

MCL : Maximum Contaminant Level - the highest level of a contaminant that is allowed in drinking water. Florida Department of Environmental Protection - Florida Administrative Code. 62-555

U : Undetected - means not detected and indicates that the substance was not found by laboratory analysis.

I : The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

(pCi/L) : Picocuries per Liter - a measure of radioactivity in water.

mg/L : Milligrams per liter or Parts per million - one part by weight of analyte to 1 million parts by weight of the water sample.

µg/L : Micrograms per liter or Parts per billion - one part by weight of analyte to 1 billion parts by weight of the water sample.

Date Samples Taken:
September 3, 2009