

PILOT PLANT: **FINISHED** WATER QUALITY
Voluntary Monitoring Results
January - December 2008

Definitions & Terms

Substance	Units	Minimum	Average	Maximum	MCL
Metals					
Antimony	PPB	ND	ND	ND	6
Arsenic	PPB	ND	ND	ND	10 a
Barium	PPM	ND	ND	ND	2
Beryllium	PPB	ND	ND	ND	4
Chromium	PPB	ND	ND	ND	100
Iron	PPM	ND	ND	ND	0.3 b
Manganese	PPM	ND	ND	ND	0.05 b
Mercury	PPB	ND	ND	ND	2
Nickel	PPB	ND	ND	ND	1
Selenium	PPB	ND	ND	ND	50
Thallium	PPB	ND	ND	ND	2
Microbiological					
Turbidity	NTU	0.050 100% of the finished water samples were less than 0.3 NTU	0.10	0.21	1 NTU 95% of the finished water samples must be less than 0.3 NTU
Total Coliform	Present/Absent	Absent	Absent	Absent	Presence of coliform bacteria in 5.0% or more of samples in any month.
Minerals					
Fluoride	PPM	0.4	0.4	0.4	4.0
Nutrients					
Nitrate	PPM as N	ND	ND	ND	10
General Chemistry					
Alkalinity	PPM as CaCO ₃	100	102	104	~
Bromate	PPB	ND	ND	ND	10
Bicarbonate	PPM as CaCO ₃	122	125	127	~
Calcium	PPM	48	48	48	~
Chloride	PPM	43.0	45.0	46.0	250 b

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Hardness	grains/gallon	8.9	8.9	8.9	~
Magnesium	PPM	8.0	8.0	8.0	~
Potassium	PPM	3	3	3	~
Sodium	PPM	28	28	28	~
Sulfate	PPM	46	46	46	250 b
Total Dissolved Solids	PPM	188	232	276	500 b
Free Chlorine Residual	PPM	0.6	0.6	0.7	4.0
Conductance	micromhos/cm	406	425	443	~
pH	Standard Units	8.3	8.3	8.3	6.5-8.5 b
Temperature	Fahrenheit	39	39	39	~

Radiological

Gross-Alpha w/Americium-241 Reference	pCi/L	ND	ND	ND	15
Gross-Alpha Uranium-Natural Reference	pCi/L	ND	ND	ND	15
Gross-Beta w/Cesium-137 Reference	pCi/L	ND	ND	4.4	50 c
Gross-Beta w/Strontium/Y-90 Reference	pCi/L	ND	ND	4.4	50 c
Radium 226	pCi/L	ND	ND	ND	5
Radium 228	pCi/L	ND	ND	ND	5
Uranium 238	PPB	ND	ND	ND	30

Organics

DBCP, EDB by Gas Chromatography//ElectroChemical Detection

1,2-Dibromethane (EDB)	PPB	ND	ND	ND	0.05
1,2-Dibromo-3-Chloropropane (DBCP)	PPB	ND	ND	ND	0.2

POLYCHORINATED BIPHENYLS BY Gas Chromatography/ElectroChemical Detection

Arochlor 1221	PPB	ND	ND	ND	~
Arochlor 1232	PPB	ND	ND	ND	~
Arochlor 1242/1016	PPB	ND	ND	ND	~
Arochlor 1248	PPB	ND	ND	ND	~
Arochlor 1254	PPB	ND	ND	ND	~
Arochlor 1260	PPB	ND	ND	ND	~
Polychlorinated Biphenyls (PCB's)	PPB	ND	ND	ND	0.5
Chlordane (TOTAL)	PPB	ND	ND	ND	~
Toxaphene	PPB	ND	ND	ND	3

ACID HERBICIDES by Gas Chromatography//ElectroChemical Detection

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2,4,5-TP (SILVEX)	PPB	ND	ND	ND	~
CARBAMATE PESTICIDES by High-Performance Liquid Chromatography					
2,4-D	PPB	ND	ND	ND	70
2,4,5-T	PPB	ND	ND	ND	50
Dalapon	PPB	ND	ND	ND	200
2,4-DB	PPB	ND	ND	ND	~
DINOSEB	PPB	ND	ND	ND	7
Bentazon	PPB	ND	ND	ND	~
PENTACHLOROPHENOL (PCP)	PPB	ND	ND	ND	1
Chloramben	PPB	ND	ND	ND	~
Picloram	PPB	ND	ND	ND	500
Dacthal (DCPA)	PPB	ND	ND	ND	~
Dicamba	PPB	ND	ND	ND	~
Dichloroprop	PPB	ND	ND	ND	~
3,5-Dichlorobenzoic Acid	PPB	ND	ND	ND	~
Acifluorfen	PPB	ND	ND	ND	~
Aldicarb Sulfoxide	PPB	ND	ND	ND	~
Baygon	PPB	ND	ND	ND	~
Carbaryl (Sevin)	PPB	ND	ND	ND	~
3-Hydroxycarbofuran	PPB	ND	ND	ND	~
Methiocarb	PPB	ND	ND	ND	~
Methomyl	PPB	ND	ND	ND	~
Glyphosate by High-Performance Liquid Chromatography	PPB	ND	ND	ND	700
Endothall by Gas Chromatography-Mass Spectrometry (GC/MS)	PPB	ND	ND	ND	100
Diquat by High-Performance Liquid Chromatography	PPB	ND	ND	ND	20
SYNTHETIC ORGANIC CONTAMINANTS by Gas Chromatography-Mass Spectrometry (GC/MS)					
Alachlor	PPB	ND	ND	ND	2
Atrazine	PPB	ND	ND	ND	3
Benzo[A]Pyrene	PPB	ND	ND	ND	200
Chlordane	PPB	ND	ND	ND	2
Di(2-Ethylhexyl)Adipate	PPB	ND	ND	ND	400
Di(2-Ethylhexyl)Phthalate	PPB	ND	ND	ND	6
Endrin	PPB	ND	ND	ND	2
Heptachlor	PPT	ND	ND	ND	400
Heptachlor Epoxide	PPT	ND	ND	ND	200
Hexachlorobenzene	PPB	ND	ND	ND	1

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Substance	Units	Minimum	Average	Maximum	MCL
Hexachlorocyclopentadiene	PPB	ND	ND	ND	50
Lindane	PPT	ND	ND	ND	200
Methoxychlor	PPB	ND	ND	ND	40
Simazine	PPB	ND	ND	ND	4
trans-Nonachlor	PPB	ND	ND	ND	~
Acetochlor	PPB	ND	ND	ND	~
Acenaphthene	PPB	ND	ND	ND	~
Acenaphthylene	PPB	ND	ND	ND	~
Aldrin	PPB	ND	ND	ND	~
Anthracene	PPB	ND	ND	ND	~
Benzo(a)anthracene	PPB	ND	ND	ND	~
Benzo(b)fluoranthene	PPB	ND	ND	ND	~
Benzo(ghi)perylene	PPB	ND	ND	ND	~
Benzo(k)fluoranthene	PPB	ND	ND	ND	~
Butylbenzylphthalate	PPB	ND	ND	ND	~
α-BHC	PPB	ND	ND	ND	~
β-BHC	PPB	ND	ND	ND	~
δ-BHC	PPB	ND	ND	ND	~
Butachlor	PPB	ND	ND	ND	~
Chlorothalonil	PPB	ND	ND	ND	~
Chlorpyrifos	PPB	ND	ND	ND	~
Chrysene	PPB	ND	ND	ND	~
4,4'-DDD	PPB	ND	ND	ND	~
4,4'-DDE	PPB	ND	ND	ND	~
4,4'-DDT	PPB	ND	ND	ND	~
Dibenz(a,h)anthracene	PPB	ND	ND	ND	~
Dieldrin	PPB	ND	ND	ND	~
Diethylphthalate	PPB	ND	ND	ND	~
Dimethylphthalate	PPB	ND	ND	ND	~
Di-n-butylphthalate	PPB	ND	ND	ND	~
Di-n-octylphthalate	PPB	ND	ND	ND	~
2,4-Dinitrotoluene	PPB	ND	ND	ND	~
2,6-Dinitrotoluene	PPB	ND	ND	ND	~
Endosulfan I	PPB	ND	ND	ND	~
Endosulfan II	PPB	ND	ND	ND	~
Endosulfan sulfate	PPB	ND	ND	ND	~

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Endrin aldehyde	PPB	ND	ND	ND	~
EPTC	PPB	ND	ND	ND	~
Fluorene	PPB	ND	ND	ND	~
Indeno(1,2,3,cd)pyrene	PPB	ND	ND	ND	~
isophorone	PPB	ND	ND	ND	~
Malathoin	PPB	ND	ND	ND	~
1-Methylnaphthalene	PPB	ND	ND	ND	~
2-Methylnaphthalene	PPB	ND	ND	ND	~
Methyl Parathion	PPB	ND	ND	ND	~
Metolachlor	PPB	ND	ND	ND	~
Molinate	PPB	ND	ND	ND	~
Naphthalene	PPB	ND	ND	ND	~
Parathion	PPB	ND	ND	ND	~
Phenanthrene	PPB	ND	ND	ND	~
Propachlor	PPB	ND	ND	ND	~
Propazine	PPB	ND	ND	ND	~
Pyrene	PPB	ND	ND	ND	~
Terbacil	PPB	ND	ND	ND	~
Volatiles by Gas Chromatography/Mass Spectrometry					
Benzene	PPB	ND	ND	ND	5
Bromobenzene	PPB	ND	ND	ND	~
Bromochloromethane	PPB	ND	ND	ND	~
Bromodichloromethane	PPB	ND	ND	ND	~
Bromoform	PPB	ND	ND	ND	~
Bromomethane	PPB	ND	ND	ND	~
2-Butanone (MEK)	PPB	ND	ND	ND	~
n-Butylbenzene	PPB	ND	ND	ND	~
sec-Butylbenzene	PPB	ND	ND	ND	~
tert-Butylbenzene	PPB	ND	ND	ND	~
tert-Butyl Methyl ether (MTBE)	PPB	ND	ND	ND	~
Carbon Tetrachloride	PPB	ND	ND	ND	5
Chlorobenzene	PPB	ND	ND	ND	100
Chloroethane	PPB	ND	ND	ND	5
Chloroform	PPB	ND	ND	ND	~
Chloromethane	PPB	ND	ND	ND	~
2-Chlorotoluene	PPB	ND	ND	ND	~

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4-Chlorotoluene	PPB	ND	ND	ND	~
1,2-Dibromo-3-Chloropropane (DBCP)	PPB	ND	ND	ND	~
Dibromochloromethane	PPB	ND	ND	ND	~
1,2-Dibromoethane (EDB)	PPB	ND	ND	ND	~
Dibromomethane	PPB	ND	ND	ND	~
1,2-Dichlorobenzene	PPB	ND	ND	ND	~
1,3-Dichlorobenzene	PPB	ND	ND	ND	~
1,4-Dichlorobenzene	PPB	ND	ND	ND	~
Dichlorodifluoromethane	PPB	ND	ND	ND	~
1,1-Dichloroethane	PPB	ND	ND	ND	~
1,2-Dichloroethane	PPB	ND	ND	ND	5
1,1-Dichloroethene	PPB	ND	ND	ND	~
cis-1,2-Dichloroethene	PPB	ND	ND	ND	~
trans-1,2-Dichloroethene	PPB	ND	ND	ND	~
1,2-Dichloropropane	PPB	ND	ND	ND	5
1,3-Dichloropropane	PPB	ND	ND	ND	~
2,2-Dichloropropane	PPB	ND	ND	ND	~
1,1-Dichloropropene	PPB	ND	ND	ND	~
cis-1,3-Dichloropropene	PPB	ND	ND	ND	~
trans-1,3-Dichloropropene	PPB	ND	ND	ND	~
Ethylbenzene	PPB	ND	ND	ND	700
Hexachlorobutadiene	PPB	ND	ND	ND	~
Iso-Propylbenzene	PPB	ND	ND	ND	~
4-Isopropyltoluene	PPB	ND	ND	ND	~
Methylene Chloride	PPB	ND	ND	ND	~
Naphthalene	PPB	ND	ND	ND	~
Nitrobenzene	PPB	ND	ND	ND	~
Propylbenzene	PPB	ND	ND	ND	~
Stryene	PPB	ND	ND	ND	~
1,1,1,2-Tetrachloroethane	PPB	ND	ND	ND	~
1,1,2,2-Tetrachloroethane	PPB	ND	ND	ND	~
Tetrachloroethene	PPB	ND	ND	ND	~
Tetrahydrofuran (THF)	PPB	ND	ND	ND	~
Toluene	PPB	ND	ND	ND	1
1,2,3-Trichlorobenzene	PPB	ND	ND	ND	~
1,2,4-Trichlorobenzene	PPB	ND	ND	ND	70

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Substance	Units	Minimum	Average	Maximum	MCL
1,1,1-Trichloroethane	PPB	ND	ND	ND	200
1,1,2-Trichloroethane	PPB	ND	ND	ND	5
Trichloroethene	PPB	ND	ND	ND	5
Trichlorofluoromethane	PPB	ND	ND	ND	~
1,2,3-Trichloropropane	PPB	ND	ND	ND	~
1,2,4-Trimethylbenzene	PPB	ND	ND	ND	~
1,3,5-Trimethylbenzene	PPB	ND	ND	ND	~
Vinyl Chloride	PPB	ND	ND	ND	2
Xylenes(Total)	PPB	ND	ND	ND	10

a - These arsenic values were effective December 31, 2008. Until then, the MCL was 50 PPB. See Health Effects Language at abcwua.org.

b - Represents the USEPA Secondary Contaminant Level (SMCL). Secondary Drinking Water Standards are unenforceable federal guidelines regarding taste, odor, color and certain other non-aesthetic effects of drinking water. EPA recommends them as reasonable goals, but federal law does not require water systems to comply with them.

c - EPA considers 50 picoCuries/Liter to be the level of concern for beta particles.