



AlkaViva, LLC
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Test Results

for
AlkaViva LLC
8745 Technology Way, St. C
Reno NV, 89521

Project: AlkaViva UltraWater

Sample group: Heavy Metals, Disinfectants, VOCs, Anions

Completed date: December 10, 2012

Legend:

ND = non-detectable levels of the contaminate were found.

ug/L = ultragrams per liter.

Effluent = the sample collected post filter.

Influent = the sample of incoming water.



UltraWater Test Results



Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	UltraWater Results (Effluent)	Percent Removed	Reporting Limits
<u>Disinfectants and other Anions</u>					
Total Residual Chlorine	1	mg/L	ND	99.99%	0.25
Free Chlorine	0.33	mg/L	ND	99.99%	0.25
Fluoride	2.27	mg/L	ND	99.99%	0.5
Nitrate as N	0.73	mg/L	ND	99.99%	0.1
Nitrite as N	0	mg/L	ND	0	0.1
TDS	105	mg/L	100	1%	10
<u>Heavy Metals</u>					
Aluminum	0.695	mg/L	0.216	68.92%	0.01
Antimony	0.0313	mg/L	ND	99.99%	0.001
Arsenic	0.466	mg/L	ND	99.99%	0.001
Barium	0.932	mg/L	0.00103	99.89%	0.001
Beryllium	0.00482	mg/L	ND	99.99%	0.001
Boron	1.69	mg/L	0.722	57.28%	0.01
Cadmium	0.0471	mg/L	ND	99.99%	0.001
Chromium	0.179	mg/L	ND	99.99%	0.001
Chromium VI	0.958	mg/L	ND	99.99%	0.0005
Copper	0.41	mg/L	ND	99.99%	0.001
Iron	1.36	mg/L	0.0103	99.24%	0.01
Lead	0.0988	mg/L	ND	99.99%	0.001

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UltraWater Test Results



Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	UltraWater Results (Effluent)	Percent Removed	Reporting Limits
Manganese	0.0912	mg/L	ND	99.99%	0.01
Molybdenum	0.0675	mg/L	ND	99.99%	0.001
Mercury	0.008	mg/L	ND	99.99%	0.002
Nickle	0.0693	mg/L	ND	99.99%	0.001
Selenium	0.0909	mg/L	ND	99.99%	0.001
Silver	0.117	mg/L	ND	99.99%	0.001
Thalium	0.0071	mg/L	ND	99.99%	0.001
Vanadium	0.977	mg/L	ND	99.99%	0.001
Zinc	0.585	mg/L	ND	99.99%	0.001
<u>Volitile Organics</u>					
1,1,1,2-Tetrachloethane	201	ug/L	ND	99.99%	5
1,1,1-Trichlorethane	156	ug/L	ND	99.99%	5
1,1,2,2-Tetrachloroethane	616	ug/L	ND	99.99%	5
1,1,2-Trichloroethane	60.2	ug/L	ND	99.99%	5
1,1-Dichlorethane	397	ug/L	5.43	98.63%	5
1,1-Dichloroethene	98.5	ug/L	ND	99.99%	5
1,1-dichloropropene	246	ug/L	ND	99.99%	5
1,2,3-Trichloropropane	528	ug/L	ND	99.99%	5
1,2,4-Trichlorobenzene	101	ug/L	ND	99.99%	5

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1,2,4-Trimethylbenzene	192	ug/L	ND	99.99%	5
1,2-Dichlorobenzene	228	ug/L	ND	99.99%	5
1,2-Dichloroethane	108	ug/L	ND	99.99%	5
1,2-Dichloropropane	186	ug/L	ND	99.99%	5
1,3,5-Trimethylbenzene	387	ug/L	ND	99.99%	5
1,3-Dichloropropane	275	ug/L	ND	99.99%	5
1,4-Dichlorobenzene	203	ug/L	ND	99.99%	5
2,2-Dichloropropane	179	ug/L	ND	99.99%	5
2-Chlorotoluene	429	ug/L	ND	99.99%	5
4-Chlorotoluene	94.5	ug/L	ND	99.99%	5
Benzene	172	ug/L	ND	99.99%	5
Bromobenzene	59.6	ug/L	ND	99.99%	5
Carbon Tetrachloride	153	ug/L	ND	99.99%	5
Chlorobenzene	231	ug/L	ND	99.99%	5
cis-1,2-dichloroethane	366	ug/L	ND	99.99%	5
cis-1,3-Dichloropropene	145	ug/L	ND	99.99%	5
Dibromomethane	156	ug/L	ND	99.99%	5
Dichlorodifluoromethane	160	ug/L	ND	99.99%	5
Ethylbenzene	262	ug/L	ND	99.99%	5
Hexachlorobutadine	80.3	ug/L	ND	99.99%	5

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UltraWater Test Results



Drinking Water Contaminant	Influent Contaminant Level	Unit of Measure	UltraWater Results (Effluent)	Percent Removed	Reporting Limits
Isopropylbenzene	328	ug/L	ND	99.99%	5
m+p-Xylene	72.5	ug/L	ND	99.99%	5
Methylene chloride	266	ug/L	ND	99.99%	5
methyl-t-butyl ether (MTBE)	372	ug/L	5.36	98.56%	5
Napthalene	124	ug/L	ND	99.99%	5
n-Propylbenzene	247	ug/L	ND	99.99%	5
o-Xylene	59.8	ug/L	ND	99.99%	5
p-isopropyltoluene	124	ug/L	ND	99.99%	5
Styrene	85.4	ug/L	ND	99.99%	5
tert-Butylbenzene	318	ug/L	ND	99.99%	5
Tetrachloroethane	168	ug/L	ND	99.99%	5
Toluene	265	ug/L	ND	99.99%	5
trans-1,2-Dichloroethane	186	ug/L	ND	99.99%	5
trans-1,3-Dichloropropene	205	ug/L	ND	99.99%	5
Trichloroethane	259	ug/L	ND	99.99%	5
Vinyl Chloride	136	ug/L	ND	99.99%	5

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Test Results

for
AlkaViva LLC
8745 Technology Way, St. C
Reno NV, 89521

Project: AlkaViva UltraWater

Sample group: PPCP Testing

Completed date: August 3, 2012

Legend:

ND = non-detectable levels of the contaminate were found.

ng/L = nanograms per liter.

Effluent = the sample collected post filter.

Influent = the sample of incoming water.

Compounds Action	Compound Name	Influent Compound Level (ng/L)	AlkaViva UltraWater Results	Percent Removed	Reporting Limit (ng/L)
<u>Hormones</u>					
Contraceptive Hormone	EE2 (17 Alpha-ethynylestradiol)	500	ND	99.99%	5
Estrogenic Hormone	E2 (17 Beta-Estradiol)	380	ND	99.99%	5
Estrogenic Hormone	Estrone	400	ND	99.99%	5
Steroid Hormone	Androstenedione	370	ND	99.99%	5
Steroid Hormone	Norethisterone	600	ND	99.99%	5
Steroid Hormone	Progesterone	550	ND	99.99%	5
Steroid Hormone	Testosterone	410	ND	99.99%	10
<u>Over the Counter</u>					
Analgesic	Acetaminophen	640	ND	99.99%	5
Analgesic	Phenazone	530	ND	99.99%	5
Analgesic-NSAID	Ibuprofen	1800	ND	99.99%	10
<u>Prescription Drugs</u>					
Analgesic	Lidocaine	280	ND	99.99%	5
Analgesic-NSAID	Butalbital	310	ND	99.99%	5
Anti anxiety	Meprobamate	520	ND	99.99%	5
Anti Asthmatic	Albuterol	1800	ND	99.99%	5
Anti Asthmatic	Theophylline	310	ND	99.99%	10
Anti Convulsant	Primidone	230	ND	99.99%	5
Anti Inflammatory	Diclofenac	390	ND	99.99%	5
Anti Inflammatory	Ketoprofen	280	ND	99.99%	5
Anti Inflammatory	Ketorolac	230	ND	99.99%	5
Anti Inflammatory	Meclofenamic Acid	380	ND	99.99%	5
Anti seizure	Carbamazepine	480	ND	99.99%	5
Antibiotic	Amoxicillin	480	ND	99.99%	20
Antibiotic	Azrothromycin	31000	810	97.38%	5
Antibiotic	Carbadox	360	ND	99.99%	5

*ND = Nondetectable levels found

Compounds Action	Compound Name	Influent Compound Level (ng/L)	AlkaViva UltraWater Results	Percent Removed	Reporting Limit (ng/L)
Antibiotic	Chloramphenicol	700	ND	99.99%	10
Antibiotic	Erythromycin	110	ND	99.99%	10
Antibiotic	Flumequine	270	ND	99.99%	10
Antibiotic	Lincomycin	1200	ND	99.99%	10
Antibiotic	Oxolinic acid	84	ND	99.99%	5
Antibiotic	Trimethoprim	200	ND	99.99%	5
Anti-cholesterol	Clofibric acid	470	ND	99.99%	5
Anticoagulant	Warfarin	860	ND	99.99%	5
Antidepressant	Fluoxetine (Prozac)	470	ND	99.99%	10
Anti-Seizure	Dilantin	2400	ND	99.99%	20
Beta Blocker	Atenolol	1000	ND	99.99%	5
Beta Blocker	Lopressor	3400	ND	99.99%	20
Blood thinner	Pentoxifylline	490	ND	99.99%	5
Calcium Blocker	Nifedipine	1600	87	94.56%	20
Enzyme	Chloridazon	120	ND	99.99%	5
H2 Blocker	Cimetidine	4400	ND	99.99%	5
Heart Medication	Dehydronifedipine	230	ND	99.99%	5
Lipid Regulator	Bezafibrate	1200	ND	99.99%	5
Lipid Regulator	Gemfibrozil	450	ND	99.99%	5
Muscle Relaxant	Carisoprodol	540	ND	99.99%	5
Sulfa Antibiotic	Sulfachloropyridazine	3400	ND	99.99%	5
Sulfa Antibiotic	Sulfadimethoxine	550	ND	99.99%	5
Sulfa Antibiotic	Sulfamerazine	170	ND	99.99%	5
Sulfa Antibiotic	Sulfadiazine	630	ND	99.99%	5
Sulfa Antibiotic	Sulfamethazine	200	ND	99.99%	5

*ND = Nondetectable levels found

Compounds Action	Compound Name	Influent Compound Level (ng/L)	AlkaViva UltraWater Results	Percent Removed	Reporting Limit (ng/L)
Sulfa Antibiotic	Sulfamethizole	270	ND	99.99%	5
Sulfa Antibiotic	Sulfathiazole	200	ND	99.99%	5
Sulfa Antibiotic	Sulfamethoxazole	290	ND	99.99%	5
Triazide	Bendroflumethiazide	880	ND	99.99%	5
Valium- Antianxiety	Diazepam	620	ND	99.99%	5
<u>Stimulants</u>					
Caffeine Degradate	1,7-dimethylxanthine	700	ND	99.99%	5
Caffeine Degradate	Theobromine	560	ND	99.99%	5
Nicotine Degradate	Cotinine	1900	ND	99.99%	10
Stimulant	Caffeine	780	ND	99.99%	5
Analgesic-NSAID	Naproxen	240	ND	99.99%	10
<u>Personal Care Products</u>					
Antibacterial	Triclosan	1000	ND	99.99%	10
Mosquito Repellant	DEET	340	ND	99.99%	2
<u>Preservatives</u>					
Preservative	Butylparaben	730	ND	99.99%	5
Preservative	Ethylparaben	2100	ND	99.99%	20
Preservative	Isobutylparaben	780	ND	99.99%	5
Preservative	Methylparaben	1400	ND	99.99%	20
Preservative	Propylparaben	270	ND	99.99%	5
<u>Pesticides/Herbicides</u>					
Herbicide	2,4-D	250	ND	99.99%	5
Herbicide	Bromacil	480	ND	99.99%	5
Herbicide	Chlorotoluron	440	ND	99.99%	5
Herbicide	Diuron	940	ND	99.99%	5
Herbicide	Isoproturon	2000	ND	99.99%	100
Herbicide	Linuron	420	ND	99.99%	5

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Compounds Action	Compound Name	Influent Compound Level (ng/L)	AlkaViva UltraWater Results	Percent Removed	Reporting Limit (ng/L)
Herbicide	Metazachlor	520	ND		5
Pesticide	Quinoline	250	ND	99.99%	5
Triazine Herbicide	Atrazine	390	ND	99.99%	5
Triazine Herbicide	Cyanazine	16	ND	99.99%	5
Triazine Degradate	DACT (Diaminochlorotriazine)	260	ND	99.99%	5
Triazine Degradate	DEA (Deethylatrazine)	120	ND	99.99%	5
Triazine Degradate	DIA (Deisopropylatrazine)	250	ND	99.99%	5
Triazine Herbicide	Propazine	340	ND	99.99%	5
Triazine Herbicide	Simazine	120	ND	99.99%	5
<u>Wastewater Indicators</u>					
Flame Retardant	TCEP	29	ND	99.99%	5
Flame Retardant	TCPP	440	ND	99.99%	5
Flame Retardant	TDCPP	1000	ND	99.99%	5
Plasticizer	BPA (Bis Phenol A)	270	ND	99.99%	10
Sugar Substitute	Acesulfame-K	1300	ND	99.99%	20
Sugar Substitute	Sucralose	15000	ND	99.99%	100
Surfactant	4-nonylphenol	710	ND	99.99%	100
Surfactant	4-tert-octylphenol	400	ND	99.99%	50
X-ray Contrast agent	Iohexol (Iohexal)	240	ND	99.99%	10
X-ray Contrast agent	Iopromide	290	ND	99.99%	5

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