

ANSI/NSF Standard 42 Chlorine Reduction

Project Number: 03NK25240

Applicant: Sun Water Systems
325 N. Beach Street
Fort Worth, TX 76111

Test Unit Description: Aquasana AQ-4000
Date Unit Received: September 2003
Filter Capacity: 500 gallons
Rated Flow Rate: 0.5 gpm
Test Conducted: Chlorine Reduction
ANSI/NSF Standard 42 - 2003
Maximum Allowable Effluent: 0.5 mg/L
Actual Maximum Effluent: 0.03 mg/L
Verdict: PASS

UL Sample Number: 57639

Lab Sample Number	Sample Point	Test Unit #	Chlorine Concentration (mg/L)	Percent Reduction	Flow Rate (GPM)	Date Analyzed
57637	Initial	Influent	2.09			10/15/03
57639	Initial	57639	0.02	99	0.5	10/15/03
57643	50 gallons	Influent	2.12			10/15/03
57644	50 gallons	57639	0.01	99	0.5	10/15/03
57648	100 gallons	Influent	1.99			10/16/03
57649	100 gallons	57639	0.01	99	0.5	10/16/03
57651	150 gallons	Influent	1.80			10/16/03
57652	150 gallons	57639	0.01	99	0.5	10/16/03
57655	200 gallons	Influent	1.93			10/17/03
57656	200 gallons	57639	0.01	99	0.5	10/17/03
57659	250 gallons	Influent	1.97			10/17/03
57660	250 gallons	57639	0.01	99	0.5	10/17/03
57663	300 gallons	Influent	1.87			10/20/03
57664	300 gallons	57639	0.01	99	0.5	10/20/03
57667	350 gallons	Influent	1.92			10/20/03
57668	350 gallons	57639	0.02	99	0.5	10/20/03

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Lab Sample Number	Sample Point	Test Unit #	Chlorine Concentration (mg/L)	Percent Reduction	Flow Rate (GPM)	Date Analyzed
57671	400 gallons	Influent	1.92			10/21/03
57672	400 gallons	57639	0.01	99	0.5	10/21/03
57675	450 gallons	Influent	1.90			10/21/03
57676	450 gallons	57639	0.01	99	0.5	10/21/03
57679	500 gallons	Influent	2.09			10/22/03
57680	500 gallons	57639	0.03	98.5	0.5	10/22/03

Average Chlorine Influent Level: 1.96mg/L
Average Chlorine Effluent Level: 57639: 0.01 mg L
Average Percent Reduction: 57639: 99
Average Flow Rate at 60 PSIG: 57639: 0.5 gpm
Initial Dynamic Pressure: 60 psig

UL Sample Number: 57640

Lab Sample Number	Sample Point	Test Unit #	Chlorine Concentration (mg/L)	Percent Reduction	Flow Rate (GPM)	Date Analyzed
57637	Initial	Influent	2.09			10/15/03
57640	Initial	57640	0.03	99	0.5	10/15/03
57645	50 gallons	Influent	2.06			10/15/03
57646	50 gallons	57640	0.01	99	0.5	10/15/03
57649	100 gallons	Influent	1.99			10/16/03
57650	100 gallons	57640	0.01	99	0.5	10/16/03
57653	150 gallons	Influent	1.76			10/16/03
57654	150 gallons	57640	0.01	99	0.5	10/16/03
57657	200 gallons	Influent	1.93			10/17/03
57658	200 gallons	57640	0.01	99	0.5	10/17/03
57661	250 gallons	Influent	1.94			10/17/03
57662	250 gallons	57640	0.01	99	0.5	10/17/03
57665	300 gallons	Influent	1.87			10/20/03
57666	300 gallons	57640	0.01	99	0.5	10/20/04
57669	350 gallons	Influent	1.88			10/20/03
57670	350 gallons	57640	0.02	99	0.5	10/20/03

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Lab Sample Number	Sample Point	Test Unit #	Chlorine Concentration (mg/L)	Percent Reduction	Flow Rate (GPM)	Date Analyzed
57673	400 gallons	Influent	1.92			10/21/03
57674	400 gallons	57640	0.01	99	0.5	10/21/03
57677	450 gallons	Influent	1.90			10/21/03
57676	450 gallons	57640	0.01	99	0.5	10/21/03
57681	500 gallons	Influent	2.09			10/22/03
57682	500 gallons	57640	0.02	99	0.5	10/22/03

Average Chlorine Influent Level: 1.96mg/L
Average Chlorine Effluent Level: 57640: 0.01 mg/L
Average Percent Reduction: 57640: 99
Average Flow Rate at 60 PSIG: 57640: 0.5 gpm
Initial Dynamic Pressure: 60 psig

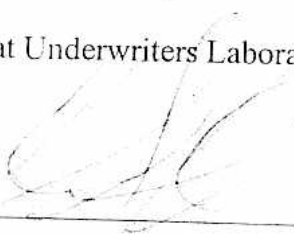
General Test Water Characteristics

Parameters	Specifications
pH	7.5 $\pm$ 0.5
Temperature	20 $\pm$ 3°C
Total Dissolved Solids	200-500 mg/L
Turbidity	< 1 NTU
Total Organic Carbon	$\geq$ 1.0 mg/L

Test completed using 10 minute on, 10 minute off cycle 16 hours/day

Chlorine analyses completed using SM4500Cl - F

All work performed at Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062

Reviewed By: 
Kenneth Jenke
Senior Project Chemist

Date: 

