



January 22, 2004

Sun Water Systems  
Attn: Mr. Charles Strand  
325 N. Beach Street  
Fort Worth, TX 76111

Reference: Classification of Drinking Water Systems, Project 03NK25243, MH29286

Subject: Data for Chlorine Reduction Claim under ANSI/NSF Standard 42 - 2003


Dear Charles:

Attached to this letter is the data from the Chlorine Reduction test run using the Rhino EQ-300 filtration unit. Pace Analytical completed the testing for this portion of the project.


The data indicates that the Rhino EQ-300 drinking water system meets the requirements for Chlorine Reduction under ANSI/NSF Standard 42 - 2003.

If you have any questions about the data, please feel free to contact us. You will be receiving a complete UL report when all of the testing has been completed.

Sincerely,

  
Kenneth Jenke  
Senior Project Chemist  
Drinking Water Treatment Units  
Environmental Sciences

Reviewed by,

  
Thomas Bowman  
Section Manager





### ANSI/NSF Standard 42 Chlorine Reduction

**Project Number:** 03NK25243

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

**Test Unit Description:** Rhino EQ-300  
**Date Unit Received:** August 2003  
**Filter Capacity:** 300,000 gallons  
**Rated Flow Rate:** 7.0 gpm  
**Test Conducted:** Chlorine Reduction  
ANSI/NSF Standard 42 - 2003

**Maximum Allowable Effluent:** 0.5 mg/L  
**Actual Maximum Effluent:** <0.01 mg/L  
**Verdict:** **PASS**

Lab Sample Number	Sample Point	Test Unit #	Chlorine Concentration (mg/L)	Percent Reduction	Flow Rate (GPM)	Date Analyzed
40020301	Initial	Influent	2.0			9/12/03
40020302	Initial	4002-1	<0.01	99	7.0	9/12/03
40020303	30,000 gal	Influent	2.0			9/20/03
40020304	30,000 gal	4002-1	<0.01	99	7.0	9/22/03
40020305	60,000 gal	Influent	2.0			9/30/03
40020306	60,000 gal	4002-1	<0.01	99	7.1	9/30/03
40020307	90,000 gal	Influent	2.1			10/09/03
40020308	90,000 gal	4002-1	<0.01	99	7.0	10/09/03
40020309	120,000 gal	Influent	2.0			10/18/03
40020310	120,000 gal	4002-1	<0.01	99	7.0	10/18/03
40020311	150,000 gal	Influent	2.2			10/27/03
40020312	150,000 gal	4002-1	<0.01	99	7.0	10/27/03
40020313	180,000 gal	Influent	2.1			11/04/03
40020314	180,000 gal	4002-1	<0.01	99	7.0	11/04/03
40020315	210,000 gal	Influent	2.1			11/13/03
40020316	210,000 gal	4002-1	<0.01	99	7.0	11/13/03

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Lab Sample Number	Sample Point	Test Unit #	Chlorine Concentration (mg/L)	Percent Reduction	Flow Rate (GPM)	Date Analyzed
40020317	240,000 gal	Influent	1.9			11/23/03
40020318	240,000 gal	4002-1	<0.01	99	7.0	11/23/03
40020319	270,000 gal	Influent	2.1			12/01/03
40020320	270,000 gal	4002-1	<0.01	99	7.0	12/01/03
40020321	300,000 gal	Influent	2.0			12/10/03
40020322	300,000 gal	4002-1	<0.01	99	7.0	12/10/03

Average Chlorine Influent Level: 2.0mg/L  
 Average Chlorine Effluent Level: 4002-1: <0.01 mg/L  
 Average Percent Reduction: 4002-1: 99  
 Average Flow Rate at 60 PSIG: 4002-1: 7.0 gpm  
 Initial Dynamic Pressure: 60 psig

**General Test Water Characteristics**

Parameters	Specifications	Results
pH	7.5 ± 0.5	7.1
Temperature	20 ± 3°C	18°C
Total Dissolved Solids	200-500 mg/L	330 mg/L
Turbidity	< 1 NTU	< 1 NTU
Total Organic Carbon	≥ 1.0 mg/L	1.4 mg/L

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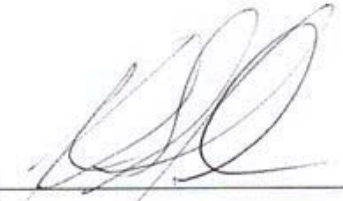


Test completed using 10 minute on, 10 minute off cycle 16 hours/day

Chlorine analyses completed using SM4500Cl - F

Pace Analytical Test Unit 4002-1 = UL Sample Number 57451

All work performed at Pace Analytical Services, 301 W. County Road E-2, St.Paul, MN  
55112

Reviewed By:   
Kenneth Jenke  
Senior Project Chemist

Date: 1/22/04

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