



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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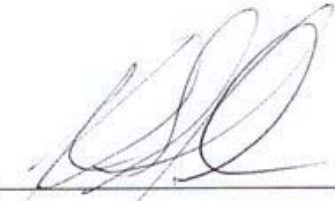


Test completed using 10 minute on, 10 minute off cycle 16 hours/day

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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