



March 24, 2015

Pearl Cai
iSpring Water Systems, LLC
3020 Trotters Parkway
Alpharetta, GA 30004

Dear Pearl Cai,

For your records, WQA is sending you the test report for the TDS Reduction and Open Atmosphere Testing conducted on the RCC7 according to NSF/ANSI Standard 58 - 2013. Please find the enclosed test report for your review.

We appreciate your business and look forward to working with you on future testing and certification projects. Should you have any questions or need additional information, please feel free to contact Tom Spoden at (630) 505-0160 x 519 or tspoden@wqa.org.

Sincerely,
Water Quality Association

Amanda Grass, CWS-VI
Laboratory Assistant

Enclosures.



iSpring Water Systems, LLC Test Report

Report Number: REP.7168.1501L.032415.03

Certification Project: 7168.1401C

Testing Laboratory: Water Quality Association Laboratory
4151 Naperville Road
Lisle, IL 60532

Client: iSpring Water Systems, LLC
3020 Trotters Parkway
Alpharetta, GA 30004

Test Unit: 7168.1501L.04-05

Model: RCC7

Test Completion Date: March 16, 2015

Test Method: NSF/ANSI Standard 58 - 2013, TDS Reduction and Open Atmosphere

Test Results: **PASS**

Comments: Testing was conducted according to NSF/ANSI Standard 58 with no deviations. The storage tanks were filled and emptied twice with RO/DI water prior to testing. Please see the enclosed Water Quality Association Laboratory Analysis Report.

Testing Conducted By: Megan Aubry, Laboratory Analyst

Verified By: _____
Tom Spoden, CWS-VI, Laboratory Manager

NSF/ANSI 58 / WQA S-300 TDS Data Summary

TEST UNIT INFORMATION

Manufacturer: **iSpring Water Systems, LLC**
 Model: **RCC7**

System Type: **A**

- A. Systems with storage tank and automatic shut off
- B. Counter top systems with storage tanks or reservoirs
- C. Systems without storage tanks
- D. Systems with no shut off provisions

Testing Completed On: **3/16/2015**

Test Unit Numbers: **7168.1501L.04-05**

Contaminant: **TDS**

Target Influent: **710 mg/L - 790 mg/L**

Allowed Influent Range: **450 mg/L - 1050 mg/L**

Acceptance Criteria **187 mg/L**

Units: **mg/L**

Data Summary:

Sample Collection	Influent	Effluent Unit 1	Effluent Unit 2	Units
-------------------	----------	-----------------	-----------------	-------

Day 1				
4 hours	716	21.5	19.6	mg/L
12 hours	724	17.2	19.1	mg/L
16 hours	727	18.1	34.4	mg/L

Day 2				
24 hours	730	74.0	23.9	mg/L
30 hours	732	17.2	18.1	mg/L
36 hours	733	17.2	18.6	mg/L

Day 3				
48 hours	739	14.8	17.2	mg/L
54 hours	739	15.8	17.2	mg/L
60 hours	735	16.2	17.2	mg/L

Day 4				
72 hours	714	16.2	17.7	mg/L
78 hours	715	16.2	17.2	mg/L
84 hours	716	16.7	17.7	mg/L

Day 7				
144 hours	755	17.7	18.6	mg/L
148 hours	751	16.2	17.2	mg/L

Avg. Influent Conc (mg/L): **730.4**

Avg. Effluent Conc (mg/L): **20.3**

Avg. % Reduction: **97.2**

Lowest % Reduction: **89.9**

Avg. % Recovery: **30.9**

Avg. Daily Production (gpd): **17.3**

Avg. Efficiency Rating (%): **13.6**

Avg. Storage Tank Cap. (gal): **2.3**

Status: **PASS**

Note: No samples are collected during the 54 hour stagnation period covering days 5 and 6.

Comments:

The valve of the sampler began leaking and not rotating properly during the 24 hour sample point, explaining the high TDS value obtained.

DATA FOR TESTING DAY 1

PRODUCT INFORMATION

Manufacture: **iSpring Water Systems, LLC**
 Model: **RCC7**

Test Unit Numbers: **7168.1501L.04-05**
 Contaminant: **TDS**

System Type: **A**

Influent Response Factor: **0.5188**
 Effluent Response Factor: **0.4776**

Day One Data Summary :

Sample Collection	Influent Cond (mS/cm)	Influent TDS (mg/L)	Effluent 1 Cond (mS/cm)	Effluent 2 Cond (mS/cm)	Effluent 1 TDS (mg/L)	Effluent 2 TDS (mg/L)
4 hours	1380	716	45	41	21.5	19.6
12 hours	1395	724	36	40	17.2	19.1
16 hours	1402	727	38	72	18.1	34.4

Unit 1

Unit 2

Recovery Rating Test

Reject water volume (mL) **255**

Reject water volume (mL) **210**

Recovery (%): **30.1**

Daily Production Rate Test

Step 1

Time required to fill tank (min): **206**
 Reject Volume Step 1 (gal): **13.3**

Step 1

Time required to fill tank (min): **204**
 Reject Volume Step 1 (gal): **13.1**

Step 2

Product Volume Step 2 (mL): **1880**
 Time required to refill tank (min): **87**
 Reject Volume Step 2 (gal): **6.4**
 Product Volume Step 1 (mL): **9160**

Step 2

Product Volume Step 2 (mL): **1890**
 Time required to refill tank (min): **86**
 Reject Volume Step 2 (gal): **5.8**
 Product Volume Step 1 (mL): **8860**

Unit 1 Daily Prod. Rate (gpd): **14.3**
 Unit 1 Efficiency Rating (%): **11.3**

Unit 2 Daily Prod. Rate (gpd): **14.1**
 Unit 2 Efficiency Rating (%): **11.5**

Day 1 Avg. Daily Prod. Rate (gpd): **14.2**
 Day 1 Avg. Efficiency Rating (%): **11.4**

DATA FOR TESTING DAYS 2, 3, and 4

PRODUCT INFORMATION

Manufacture: **iSpring Water Systems, LLC**
 Model: **RCC7**

Test Unit Numbers: **7168.1501L.04-05**
 Contaminant: **TDS**

System Type: **A**

Influent Response Factor: **0.5188**
 Effluent Response Factor: **0.4776**

Day Two Data Summary :

Sample Collection	Influent Cond (mS/cm)	Influent TDS (mg/L)	Effluent 1 Cond (mS/cm)	Effluent 2 Cond (mS/cm)	Effluent 1 TDS (mg/L)	Effluent 2 TDS (mg/L)
24 hours	1407	730	155	50	74.0	23.9
30 hours	1410	732	36	38	17.2	18.1
36 hours	1412	733	36	39	17.2	18.6

Day Three Data Summary :

Sample Collection	Influent Cond (mS/cm)	Influent TDS (mg/L)	Effluent 1 Cond (mS/cm)	Effluent 2 Cond (mS/cm)	Effluent 1 TDS (mg/L)	Effluent 2 TDS (mg/L)
48 hours	1425	739	31	36	14.8	17.2
54 hours	1424	739	33	36	15.8	17.2
60 hours	1417	735	34	36	16.2	17.2

Day Four Data Summary :

Sample Collection	Influent Cond (mS/cm)	Influent TDS (mg/L)	Effluent 1 Cond (mS/cm)	Effluent 2 Cond (mS/cm)	Effluent 1 TDS (mg/L)	Effluent 2 TDS (mg/L)
72 hours	1377	714	34	37	16.2	17.7
78 hours	1379	715	34	36	16.2	17.2
84 hours	1381	716	35	37	16.7	17.7

DATA FOR TESTING DAY 7

PRODUCT INFORMATION

Manufacture: **iSpring Water Systems, LLC**
 Model: **RCC7**

Test Unit Numbers: **7168.1501L.04-05**
 Contaminant: **TDS**

System Type: **A**

Influent Response Factor: **0.5188**
 Effluent Response Factor: **0.4776**

Day Seven Data Summary :

Sample Collection	Influent Cond (mS/cm)	Influent TDS (mg/L)	Effluent 1 Cond (mS/cm)	Effluent 2 Cond (mS/cm)	Effluent 1 TDS (mg/L)	Effluent 2 TDS (mg/L)
144 hours	1455	755	37	39	17.7	18.6
148 hours	1447	751	34	36	16.2	17.2

Unit 1

Unit 2

Recovery Rating Test

Reject water volume (mL) **220**

Reject water volume (mL) **210**

Recovery (%): **31.7**

Daily Production Rate Test

Step 1

Time required to fill tank (min): **139**
 Reject Volume Step 1 (gal): **9.5**

Step 1

Time required to fill tank (min): **123**
 Reject Volume Step 1 (gal): **8.1**

Step 2

Product Volume Step 2 (mL): **1380**
 Time required to refill tank (min): **45**
 Reject Volume Step 2 (gal): **2.6**
 Product Volume Step 1 (mL): **8680**

Step 2

Product Volume Step 2 (mL): **1440**
 Time required to refill tank (min): **46**
 Reject Volume Step 2 (gal): **2.9**
 Product Volume Step 1 (mL): **7440**

Unit 1 Daily Prod. Rate (gpd): **20.8**
 Unit 1 Efficiency Rating (%): **15.9**

Unit 2 Daily Prod. Rate (gpd): **20.0**
 Unit 2 Efficiency Rating (%): **15.6**

Day 7 Avg. Daily Prod. Rate (gpd): **20.4**
 Day 7 Avg. Efficiency Rating (%): **15.7**

Open Atmosphere Daily Production Rate and TDS Reduction Summary

TEST UNIT INFORMATION

Manufacturer:	iSpring Water Systems, LLC
Model:	RCC7
Test Unit Numbers:	7168.1501L.04-05

Testing Completed On 3/16/2015

Daily Production Rate Test:

Day 1 Weight of Product Water Collected in 60 Minutes (lbs):
 Volume of product water collected (gal):
 Daily Production Rate (gpd):
Day 1 Avg. Daily Prod. Rate (gpd):

Day 7 Weight of Product Water Collected in 60 Minutes (lbs):
 Volume of product water collected (gal):
 Daily Production Rate (gpd):
Day 7 Avg. Daily Prod. Rate (gpd):
Avg. Daily Prod. Rate (1 & 7) (gpd):

Test Unit Numbers:	
7168.1501L.04	7168.1501L.05
16.8	16.5
2.01	1.98
48.3	47.5
47.9	
15.8	15.7
1.893576222	1.881591563
45.4	45.2
45.3	
46.6	

TDS Reduction:

Day 1 Influent (mg/L):
 Effluent (mg/L):
 Percent Reduction (%):
Day 1 Avg. TDS Reduction (%):

Day 7 Influent (mg/L):
 Effluent (mg/L):
 Percent Reduction (%):
Day 7 Avg. TDS Reduction (%):
Avg. TDS Reduction (1 & 7) (%):

Test Unit Numbers:	
7168.1501L.04	7168.1501L.05
723	723
22.9	21.5
96.8	97.0
96.9	
751	751
16.2	17.2
97.8	97.7
97.8	
97.4	

Comments:

N/A

WQA S-300 / NSF 58 TDS and Organic Contaminant Reduction (including Nitrate/Nitrite) Influent Water Characteristics Summary

TEST UNIT INFORMATION

Manufacturer:	iSpring Water Systems, LLC
Model:	RCC7
Test Unit Numbers:	7168.1501L.04-05
Contaminant:	TDS

TANK SUMMARY

Tank	Samples
031015TDS	4-16 hrs
031115TDS	24-36 hrs
031215TDS	48-60 hrs
031315TDS	72-84 hrs
031615TDS	144-148 hrs

INFLUENT SUMMARY

Sample Collection	Temperature (°F)	Pressure (psi)	Turbidity (NTU)	TDS (mg/L)	pH
Day 1					
4 hours	75.9	50	0.097	716	7.53
12 hours	75.9	50	0.097	724	7.53
16 hours	75.9	50	0.097	727	7.53
Day 2					
24 hours	75.2	50	0.057	730	7.43
30 hours	75.2	50	0.057	732	7.43
36 hours	75.2	50	0.057	733	7.43
Day 3					
48 hours	75.4	50	0.055	739	7.2
54 hours	75.4	50	0.055	739	7.2
60 hours	75.4	50	0.055	735	7.2
Day 4					
72 hours	75.3	50	0.087	714	7.71
78 hours	75.3	50	0.087	715	7.71
84 hours	75.3	50	0.087	716	7.71
Day 7					
144 hours	77.2	50	0.069	755	7.71
148 hours	77.2	50	0.069	751	7.71
Averages:	75.7	50.0	0.073	730.4	7.50

Note: No samples are collected during the 54 hour stagnation period covering days 5 and 6.

Comments:

N/A

