

From: Vandegrift, Jillian C.
Sent: Fri, 21 Aug 2015 16:37:31 +0000
To: Mark Southard
Subject: WRF 4508 Historical Data Collection Follow-Up
Attachments: Utility Characteristics and Historical Data Template_WichitaFalls.xlsx

Hello Mark,

Thank you for your efforts collecting historical data from Cypress WTP for the Water Research Foundation Project 4508. Though it may be a tedious process, we are thrilled to see the benefit of compiling the data we have received, and had a very productive expert workshop in early August utilizing some of the preliminary data results. We are knee-deep analyzing the rest of the data and want to be sure to confirm the dataset you provided is accurate and “tells the story” of the monitoring being performed at your facility. To recap, the intention of the “monitoring information” tab of the template was to note which analytes you monitor for, on which treatment processes, and how often. Building off of that, the following “historical data” tab was intended to capture the raw data of the analytes you ‘checked’ on the previous tab. We realize that this data may not be available in all instances, but are **asking that you please review the spreadsheet** which you sent, and confirm or supplement the following items:

a). What is captured in the **monitoring tab** is comprehensive and accurate of the monitoring program at your facility. If an analyte is checked or a method is filled in for a given analyte, we will assume you monitor for that at your facility in some capacity, even if frequency or location cells are undefined. We are especially interested in parameters such as DBPs, PPCPs, and EDCs and other novel or unconventional monitoring methods or analytes performed, since this will aid us in creating the most robust sampling plan we are able to for subsequent project phases. If you monitor for these kinds of parameters but did not previously indicate it, we want to know about it now!

b). What is provided in the **data tab** is comprehensive and complete, where data are accessible. Please note or provide reason, if available, where data were not provided despite a monitoring method or frequency being filled in on the previous tab.

Results from the data analysis will be used to create a sampling work plan constituting methods and analytes for full-scale sampling in the subsequent project phase, and (though confidential and anonymized) published in the final report, therefore accuracy of the datasets is an important aspect of this review.

Attached is the spreadsheet filled in by you or members of the staff at your utility, for reference. **Mark, the spreadsheet you provided looks great, so I don’t suspect there will be any changes. The only thing I would like to confirm with you is the PPCPs, VOCs, EDCs, etc. comment from item a). above – you don’t monitor for any of those trace constituents, correct?**

Once again, we want to thank you for your participation in this project. We believe that the results will be extremely beneficial to the advancement of knowledge in the potable reuse field and are excited to share them with you when the project is complete. Please feel free to contact me with any questions or concerns you may have. As we are moving forward into the next phases of the project, we would greatly appreciate a timely response to this email either confirming or providing supplemental information to your dataset so we are able to keep the progress coming.

Have a great weekend!

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Facility Information

Fill in the blanks as you can. Yellow text boxes such as this one include instructions and hints to help find information we are looking for.

Utility	City of Wichita Falls
Facility	Cypress Water Treatment Plant
City	Wichita Falls
State	Texas
Lead Contact Name	Mark Southard
Lead Contact Phone	940-691-1153
Lead Contact Email	mark.southard@wichitafallstx.gov
Design Flow (MGD)	10 MGD
Source Water Name	Treated WW Effluent/Surface Water

Source Water Type

Approximate Percent of Water From			
Groundwater	River	Reservoir	Lake
			50

Treatment Plant Process Description

Wastewater Treatment Plant			
Process	Type	Average Dose/ Contact Time	Max
Bar Screen			
Grit Chamber			
Primary Treatment	Clarification		
	Fine Screen		
Coagulation			
Flocculation			
Settling			-
Secondary Treatment	Membrane Bioreactor	-	
	Activated Sludge		
	Trickling Filters		
	Rotating Biological Contactors		
	Other:		
Tertiary Treatment	Depth Filtration		
	Surface Filtration		
Filtration	Dissolved Air Flotation		
	Ultrafiltration		
	Microfiltration		
	Nanofiltration		
	Reverse Osmosis		
Other	Electrodialysis		
	Advanced Oxidation		
	Carbon Adsorption		
	Exchange		
Disinfection	Chlorination		
	UV		
	Ozone		

Background Information

Provide a detailed description of any of the following experienced at your Utility.

Do you currently operate a direct potable reuse (DPR) or indirect potable reuse (IPR) treatment system?

Direct Potable Reuse

If you operate an IPR scheme, is it a planned reuse or *de facto* reuse operation?

If you operate either DPR or IPR, what planning activities took place prior to, during, and/or after implementation?

Routing pipeline for transfer of treated WW effluent, cross connection control construction in Water Plant
Full Scale Verification testing for DPR process, installation of UV System

List any major events affecting water quality in the past year (i.e. flooding, process upsets, changes in infrastructure)

Were there any process design changes or major maintenance in the last year (date of change)?

Installation of Trojan UV, February, 2015. Install new RO membranes, October

fill in the

WWTP Effluent	Sewershed
50	

[illegible]

scheme?

or implementation?

ant, testing of treated WW effluent,
em

?

ber, 2014.

Analytical Methods

Analyte	Type	Limit of Detection	Method	Condu
				On-site
Alkalinity	Grab-sampling	1 ppm		√
	Online			
Ammonia	Grab-sampling	0.1 ppm		√
	Online			
ATP	Grab-sampling			
	Online			
Biochemical Oxygen Demand (BOD, 5-day average)	Grab-sampling			
	Online			
Chlorate	Grab-sampling	0.01 ppm	EPA 300.0	√
	Online			
Chloride	Grab-sampling	0.01 ppm	EPA 300.0	√
	Online			
Chlorine	Grab-sampling			
	Online			
Chloramines	Grab-sampling	0.1 ppm		√
	Online	0.1 ppm		√
Chlorite	Grab-sampling	0.01 ppm	EPA 300.0	√
	Online			
Color	Grab-sampling	1 CU		√
	Online			
Conductivity	Grab-sampling	1 us/cm		√
	Online			
Coliphage, male-specific or somatic	Grab-sampling			
	Online			
<i>C. perfringens</i>	Grab-sampling			
	Online			
Cryptosporidium	Grab-sampling	Dependent on sample size	EPA 1623	
	Online			
Disinfection Byproducts	Grab-sampling			
	Online			
Dissolved Oxygen	Grab-sampling			
	Online			
<i>E. Coli</i>	Grab-sampling	0.02 MPN	SM 9223	
	Online			
Enterococci	Grab-sampling			
	Online			
Giardia	Grab-sampling	Dependent on sample size	EPA 1623	
	Online			
HAAs	Grab-sampling			
	Online			
Hardness	Grab-sampling	1 ppm		√
	Online			
Heterotrophic Plate Count (HPC)	Grab-sampling			
	Online			
Iron/Manganese	Grab-sampling	0.1 ppm		√
	Online			
Metals	Grab-sampling			
	Online			
Nitrite	Grab-sampling	0.03 ppm	EPA 300.0	√

Analyte	Type	Limit of Detection	Method	Condu
				On-site
Nitrite	Online			
Nitrate	Grab-sampling	0.03 ppm	EPA 300.0	√
	Online			
Orthophosphorous	Grab-sampling			
	Online			
pH	Grab-sampling	0.01 SU		√
	Online			
Phosphate	Grab-sampling			
	Online			
Sulfate	Grab-sampling	0.03 ppm	EPA 300.0	√
	Online			
Temperature	Grab-sampling	0.1 F		√
	Online			
THM	Grab-sampling			
	Online			

[illegible]

ucted:

[illegible]

ucted:				
Off-site	Flow Control Vault	RO Settled Water	MF Clarifier Effluent	MF Cell Filtrate
	1/Shift		1/Shift	
	1/Shift		1/Shift	

[illegible]

Monitoring Frequency: **Water Treatment Plant**[illegible]

Monitoring Frequency: Water Treatment Plant				
MF Combined Filtrate	RO Salt Rejection	Splitter Box	2010 Settled Water	2010 Filtrate
1/Shift			1/Shift	
1/Shift				

[illegible]

[illegible]

2010 Combined Filtrate	Clearwell	Finished Water
		1/Day
1/Shift		1/Shift
		1/Day
1/Shift		1/Shift

[illegible]

Historical Data

		WWTP, after chlorination, prior to pump intake		Flow Control Vault				
Number of Data Points Averaged		1 Monthly	1 Monthly	3	3	3	3	3
Date	Plant Influent (MGD)	Crypto oocysts/l	Giardia cysts/l	Mono-Cl (ppm)	pH	Temp	Flow (MGD)	Turbidity (NTU)

Start of 45-day Full Scale Verification Testing (FSV1)

1/27/2014		0.13	21.4			9.7	2.2	
1/28/2014						8.9	2.2	
1/29/2014						10.9	2.2	
1/30/2014						12.3	2.2	
1/31/2014						12.4	2.2	
2/1/2014						11.2	2.2	
2/2/2014						9.3	2.2	
2/3/2014				Data was provided by online analyzer, data was not used due to unreliable readings	Data was provided by online analyzer, data was not used due to unreliable readings	10	2.2	Data was provided by online analyzer, data was not used due to unreliable readings
2/4/2014						10.8	2.2	
2/5/2014						8.9	2.2	
2/6/2014						6.9	2.2	
2/7/2014						9.2	2.2	
2/8/2014						11.5	2.2	
2/9/2014						9	2.2	
2/10/2014						8.9	2.2	
2/11/2014						8.3	2.2	
2/12/2014						11.1	2.2	
2/13/2014						13.1	2.2	
2/14/2014						12.7	2.2	
2/15/2014						16.4	2.2	
2/16/2014						18.2	2.2	
2/17/2014						18.5	2.2	
2/18/2014						16.1	2.2	
2/19/2014						18.9	2.2	
2/20/2014						18.5	2.2	
2/21/2014						15.1	2.2	
2/22/2014						21.4	2.2	
2/23/2014						15.3	2.2	
2/24/2014						13.1	2.2	
2/25/2014						12.2	2.2	
2/26/2014		0.316	33.017			9.8	2.2	
2/27/2014						11.3	2.2	
2/28/2014						15.4	2.2	
3/1/2014						14.5	2.2	
3/2/2014						8.9	2.2	
3/3/2014						9.2	2.2	
3/4/2014						12.2	2.2	
3/5/2014						12.3	2.2	
3/6/2014						13.1	2.2	
3/7/2014						16.1	2.2	
3/8/2014						13.2	2.2	
3/9/2014						15.3	2.2	
3/10/2014						17.3	2.2	

3/11/2014	0	67.653		16.9	2.2	
Start of 30-day Full Scale Verification Testing (FSV2)						
5/16/2014			0.39	6.8	25.1	2.8 2.4
5/17/2014			0.78	6.9	23.3	2.8 2.8
5/18/2014			0.68	6.9	23.5	2.8 2.6
5/19/2014	0	10.52	0.87	6.9	25	2.8 2.1
5/20/2014			0.62	7	25.4	2.8 2
5/21/2014			0.51	6.9	25.8	2.8 2.1
5/22/2014			0.55	6.9	26.3	2.8 2.2
5/23/2014	0	3	1	6.9	25.9	2.8 1.9
5/24/2014			1.7	6.8	24.1	2.8 2.3
5/25/2014			1.8	6.7	23.9	2.8 1.9
5/26/2014			1.6	6.7	24.5	2.8 1.7
5/27/2014			1.9	6.8	24.5	2.7 1.6
5/28/2014			1.6	6.8	26.5	2.8 1.9
5/29/2014			1.3	6.9	27.6	2.8 2.8
5/30/2014			1.4	6.8	27	2.8 1.5
5/31/2014			1.5	6.8	26.3	2.8 1.9
6/1/2014			1.4	6.7	26.6	2.8 1.6
6/2/2014			1.5	6.6	27.7	2.7 1.6
6/3/2014			1.5	6.6	28.9	2.8 2
6/4/2014	0	7.407	1.2	6.7	29.3	2.8 1.7
6/5/2014			1	6.8	30.8	2.9 2
6/6/2014			1.3	6.8	29.2	2.8 2.1
6/7/2014			1.5	6.9	29.1	2.8 2.1
6/8/2014			1.5	6.8	27.3	2.8 2.2
6/9/2014	0	5.8	1.6	6.8	25.2	2.7 2.5
6/10/2014			1.9	6.6	24.4	2.7 2
6/11/2014			1.5	6.7	26.6	2.8 2.5
6/12/2014			1.3	6.6	28.4	2.8 2.9
6/13/2014			1.8	6.7	27.3	2.8 1.7
6/14/2014			1.7	6.6	27.5	2.8 2.1
Begin Full Scale Operation 7/9/2014 - 7/21/2015						
7/9/2014			1.6	6.8	28.7	3.9 2.2
7/10/2014			2.1	6.8	28.3	5 2.6
7/11/2014			2.5	6.8	27.9	5.3 2.9
7/12/2014			2.2	6.8	28.4	5.3 2.2
7/13/2014			2.5	6.7	28.6	5.5 2.6
7/14/2014	0.265	8.73	2.3	6.7	26.4	5.4 2.5
7/15/2014			2.4	6.7	27.2	5.3 2.1
7/16/2014			2	6.7	26.4	5.4 1.7
7/17/2014			1.8	6.6	23.9	6 1.2
7/18/2014			3.2	6.8	23.1	7 4.4
7/19/2014			2.8	6.7	25.1	7.2 2.7
7/20/2014			2.9	6.7	26.8	7.3 2.6
7/21/2014			2.5	6.7	28.2	7.5 1.8
7/22/2014			2.8	6.8	28.9	7.5 1.9
7/23/2014			2.5	6.8	29.3	6.2 2
7/24/2014			2.6	6.7	29	6.1 1.5
7/25/2014			2.5	6.7	29.3	7 1.7
7/26/2014			2.2	6.7	29.5	7.1 1.5
7/27/2014			2	6.7	32	7.3 1.9
7/28/2014			2.1	7	26	6.6 1.4
7/29/2014			2.1	6.6	26.2	7.2 2.4
7/30/2014			2.2	6.7	26.2	7.1 2.1

7/31/2014			2.6	6.7	25.8	7.2	2.1
8/1/2014			2.9	6.6	27.3	7.2	1.9
8/2/2014			3.3	6.6	28.7	7.3	1.8
8/3/2014			2.3	6.5	28.3	7.2	2.1
8/4/2014			2.9	6.6	28.1	7.2	2.1
8/5/2014			2.7	6.6	27.6	7.2	1.9
8/6/2014			2.5	6.6	28.9	7.2	1.7
8/7/2014			2.4	6.7	29.5	7.2	1.5
8/8/2014			3	6.7	29.5	7.2	1.6
8/9/2014			2.7	6.6	28.9	7.1	1.5
8/10/2014			2.1	6.4	29	7.2	1.4
8/11/2014			2.6	6.5	28.9	7.2	1.6
8/12/2014			2.5	6.6	29.7	7.1	1.8
8/13/2014			2.7	6.6	28.2	7.2	1.9
8/14/2014			2.3	6.6	27.7	7.1	1.8
8/15/2014			1.7	6.7	29.1	7.2	1.9
8/16/2014			2.5	6.6	27.5	7.2	2.3
8/17/2014			1.9	6.6	29.1	7.2	2.3
8/18/2014			2.5	6.6	29	7.1	1.9
8/19/2014			2.3	6.7	28.1	7.1	1.9
8/20/2014			2.3	6.7	29.9	7.2	1.9
8/21/2014			2.7	6.7	28.7	7.2	1.7
8/22/2014			2.5	6.7	30.8	7.2	1.7
8/23/2014			2.1	6.5	29.7	7.2	1.8
8/24/2014			3	6.5	28.7	7.1	1.9
8/25/2014			2	6.5	29.3	7.2	2.5
8/26/2014			2.4	6.6	29.5	7.1	1.7
8/27/2014	1.06	12.7	2.3	6.5	29.7	7.2	3.5
8/28/2014			2.8	6.6	28	7.3	3.1
8/29/2014			2.6	6.5	27.3	7.3	2.7
8/30/2014			3.2	6.5	27.4	7.3	1.8
8/31/2014			2.7	6.5	28.9	7.2	2.2
9/1/2014			2.5	6.4	29.2	7.2	2.3
9/2/2014	< 2.646	15.87	2.3	6.4	29.6	7.3	2.3
9/3/2014			2.1	6.6	29.5	7.4	1.9
9/4/2014			2.2	6.5	29.4	7.2	1.6
9/5/2014			2.6	6.7	28.9	7.3	1.8
9/6/2014			1.6	6.6	25	7.3	1.6
9/7/2014			2.6	6.5	26.5	7.2	1.9
9/8/2014			2.7	6.5	28.1	7.2	1.9
9/9/2014			2.2	6.6	28.8	7.3	2.2
9/10/2014			2.1	6.5	28.1	7.3	2.2
9/11/2014			2.7	6.6	26	7.2	2.2
9/12/2014			2.7	6.4	23.8	7.2	1.6
9/13/2014			2.2	6.4	23	7.2	2
9/14/2014			2.4	6.4	24.2	7.2	1.5
9/15/2014			2.7	6.4	28.1	7.3	2.6
9/16/2014			3	6.6	26.9	7.3	2.4
9/17/2014			2.9	6.6	27.5	7.2	1.9
9/18/2014			2.4	6.6	26.9	7.2	2
9/19/2014			2.2	6.6	26.9	7.2	1.9
9/20/2014			2	6.7	26.9	7.3	2.3
9/21/2014			2.5	6.5	27.7	7.2	2.3
9/22/2014			2.3	6.5	27	7.2	2.1
9/23/2014			2.5	6.6	25.9	7.2	3

9/24/2014			2.6	6.5	25.3	7.2	2.8
9/25/2014			2.5	6.5	25.3	21.8	3.2
9/26/2014			2.6	6.5	25.6	7.3	3
9/27/2014			2.2	6.5	25.4	7.2	3.4
9/28/2014			2.5	6.5	25.2	7.2	2.5
9/29/2014			2.7	6.4	26.4	7.2	1.9
9/30/2014			2.1	6.5	25.8	7.2	2.4
10/1/2014			2.3	6.4	26.7	7.2	2.3
10/2/2014			2.1	6.5	26.2	7.2	2.1
10/3/2014			2.3	6.8	25.2	7.1	1.7
10/4/2014			2.1	6.6	21.6	6.9	1.3
10/5/2014			2.3	6.6	24.1	7	2.2
10/6/2014	4.35	7.61	2.4	6.6	25.2	7.3	2.5
10/7/2014			3	6.7	26.3	7.2	2.1
10/8/2014			2.6	6.6	26.4	7.2	1.8
10/9/2014			2.3	6.5	24.6	7.1	2
10/10/2014			2.2	6.6	25.3	7.2	2
10/11/2014			2.1	6.4	22.1	7.1	1.9
10/12/2014			2.1	6.4	23.2	7	2.1
10/13/2014			2.4	6.3	22.1	7	2.2
10/14/2014			2.2	6.5	22.4	7	2
10/15/2014			1.8	6.6	22.8	6.9	2.5
10/16/2014			2.4	6.4	23.5	6.9	2.8
10/17/2014			1.6	6.5	23.8	7	2.6
10/18/2014			1.9	6.4	23.9	7	3.9
10/19/2014			2.2	6.6	23.1	7	3
10/20/2014			2	6.6	24.2	7	3.1
10/21/2014			2.2	6.6	24.1	7.1	3.2
10/22/2014			2.1	6.5	22.8	7	2.8
10/23/2014			2.5	6.4	25	7	3.3
10/24/2014			1.9	6.4	23	7	3.9
10/25/2014			2.3	6.6	21.2	6.9	3.5
10/26/2014			2.1	6.5	24.9	7	3
10/27/2014			2.1	6.5	25.2	7	2.2
10/28/2014			2.3	6.6	23.1	7	2.5
10/29/2014			2.1	6.5	22	6.8	2.2
10/30/2014			1.9	6.5	22.9	6.9	2.1
10/31/2014			2	6.6	21.7	6.6	3.2
11/1/2014			2.1	6.7	20.7	6.9	2.1
11/2/2014			1.8	6.5	20.2	7	1.7
11/3/2014	1.12	40.22	2.5	6.4	21.7	7	3.1
11/4/2014			2.4	6.4	20	6.9	1.9
11/5/2014			2.6	6.6	20	7	1.9
11/6/2014			2	6.5	21.1	7	2.2
11/7/2014			2.8	6.5	20.8	7	2.2
11/8/2014			3	6.6	20.1	7	1.5
11/9/2014			3.1	6.6	20.9	6.9	1.7
11/10/2014			3.5	6.5	23.1	7	1.6
11/11/2014			3.2	6.6	17.8	6.8	2
11/12/2014			3.1	6.5	16.4	6.9	1.6
11/13/2014			2.8	6.6	15.5	6.7	4
11/14/2014			2.9	6.6	15.4	6.7	3.7
11/15/2014			3.4	6.5	17.9	6.8	1.9
11/16/2014			2.6	6.7	15.3	6.6	1.3
11/17/2014	0.265	8.201	3.5	6.6	15.5	6.8	2

11/18/2014			2.9	6.7	17.1	6.7	2.7
11/19/2014			2.9	6.7	18.5	6.7	3.9
11/20/2014			2.9	6.7	18.8	6.8	3.9
11/21/2014			2.8	6.6	20	6.8	1.7
11/22/2014			2	6.7	18.5	6.9	2
11/23/2014			2.2	6.6	19.3	6.9	4.1
11/24/2014			3.7	6.6	17.5	6.8	2.9
11/25/2014			3.5	6.7	15.8	6.8	1.9
11/26/2014			3.1	6.7	17.7	6.8	1.8
11/27/2014			2.8	6.7	17.6	6.8	2.4
11/28/2014			2.9	6.8	18.7	6.8	2
11/29/2014			3	6.7	19.9	6.8	1.7
11/30/2014			2.9	6.9	19.4	6.9	1.4
12/1/2014	< 1.250	17.5	2.7	6.6	16.1	6.7	1.9
12/2/2014			2.7	6.4	15.1	6.8	4.6
12/3/2014			2.6	6.6	15.4	6.8	2.7
12/4/2014			3	6.6	18.4	6.8	2.3
12/5/2014			3.1	6.6	19.6	6.8	1.9
12/6/2014			2.4	6.5	18.8	6.8	2.1
12/7/2014			3.2	6.6	18.1	6.8	1.8
12/8/2014			3.3	6.5	18.4	6.7	2.8
12/9/2014			3.3	6.7	17.3	6.7	2.7
12/10/2014			2.6	6.8	18.6	6.8	2.5
12/11/2014			3.2	6.8	19.4	6.9	2.2
12/12/2014			3	6.7	19.7	6.8	2.4
12/13/2014			2.5	6.7	19.5	6.8	2.8
12/14/2014			2.2	6.6	20.4	6.8	2.8
12/15/2014			3	6.8	18.4	6.8	3.8
12/16/2014			3	6.6	17.1	6.8	2.2
12/17/2014			3.1	6.8	14.9	6.8	4.6
12/18/2014			2.9	6.8	17.1	6.9	2.5
12/19/2014			2.4	6.8	17.2	6.8	1.5
12/20/2014			2.6	6.7	17.4	6.8	2.7
12/21/2014			3	6.9	17.5	6.9	2.1
12/22/2014			2.9	6.7	17.3	6.9	3
12/23/2014			3.3	6.6	16.3	6.8	3.1
12/24/2014			2.4	6.8	15.5	6.8	2.7
12/25/2014			3.1	6.7	15	6.8	3.3
12/26/2014			3	6.6	17.7	6.8	2.4
12/27/2014			3	6.6	15.8	6.8	2.5
12/28/2014			3.3	6.6	15.4	5.5	2.3
12/29/2014			2.3	6.5	15.3	4.8	2.9
12/30/2014			2.6	6.6	13.7	6.8	4.7
12/31/2014			2.8	6.7	10.6	5.4	2.8
1/1/2015			2.5	6.5	13.3	4.8	3.2
1/2/2015			2.7	6.6	13.7	4.8	2.7
1/3/2015			2.9	6.6	13.3	4.8	4.9
1/4/2015			3.1	6.6	13.2	4.7	3.2
1/5/2015	< 1.309	17.016	3.4	6.6	13.9	4.8	4.1
1/6/2015			3	6.7	14	4.8	2.5
1/7/2015			3	6.6	11.7	4.8	3.4
1/8/2015			2.8	6.7	11.6	4.8	4.7
1/9/2015			3.2	6.8	11.8	4.8	10.6
1/10/2015			3	6.7	12.9	4.8	2.9
1/11/2015			3	6.7	13.8	4.8	2.1

1/12/2015			3	6.7	12.8	4.8	3
1/13/2015			3	6.7	12.1	4.8	2.2
1/14/2015			3.4	6.7	12.6	4.8	2.5
1/15/2015			2.9	6.7	13.8	4.8	1.8
1/16/2015			1.7	6.7	13.4	4.8	2.3
1/17/2015			3.2	6.7	15.4	4.8	2
1/18/2015			2.8	6.7	15	4.8	2.2
1/19/2015			3.3	6.7	17.2	4.8	2
1/20/2015			3.1	6.7	17	4.9	2.1
1/21/2015			3.3	6.8	16.4	4.8	1.6
1/22/2015			3.3	6.9	11.4	5.6	2.6
1/23/2015			3.6	6.8	13.9	6.9	1.7
1/24/2015			3.8	6.8	15.1	6.3	1.7
1/25/2015			3.2	6.8	15	4.8	1.6
1/26/2015			3.5	6.8	16.6	6.3	1.8
1/27/2015			3.5	6.8	17.8	6.9	1.7
1/28/2015			3.6	6.8	18.9	6.7	1.3
1/29/2015			3.2	6.9	16.8	6.6	1.3
1/30/2015			3.7	6.9	18	6.7	1.6
1/31/2015			2.6	6.7	14	6.6	2
2/1/2015			3.3	6.8	15.3	6.7	1.9
2/2/2015	1.333	16	3.3	6.8	15.6	6.7	2.9
2/3/2015			2.8	6.7	15.3	6.7	1.9
2/4/2015			3.5	6.8	13.8	6.8	1.6
2/5/2015			3.4	6.7	13.2	6.8	1.9
2/6/2015			3.5	6.6	15.1	6.8	1.6
2/7/2015			3.4	6.7	16.3	6.9	1.5
2/8/2015			3.1	6.6	17.7	6.8	1.7
2/9/2015			2.9	6.6	18.3	6.8	1.6
2/10/2015			4	6.4	19	6.8	2.1
2/11/2015			2.8	6.6	17.7	6.8	1.8
2/12/2015			2.8	6.4	15.8	6.1	2
2/13/2015			3.1	6.6	15.7	5	2.3
2/14/2015			3	6.6	18.1	6.8	1.9
2/15/2015			2.8	6.4	16.4	6.8	2.4
2/16/2015			3	6.5	13.2	6.8	1.8
2/17/2015			3.4	6.4	14.8	6.7	2.9
2/18/2015			3.2	6.5	15	6.7	2.1
2/19/2015			3.8	6.5	15.6	6.8	2.8
2/20/2015			2.8	6.6	17.6	6.8	2.4
2/21/2015			2.8	6.3	16.9	6.8	2.9
2/22/2015			3.4	6.5	14.3	6.7	2.7
2/23/2015			3	6.5	10.7	6.7	2.8
2/24/2015			2.8	6.5	10.1	6.7	2.8
2/25/2015			2.9	6.6	15.1	6.8	2.8
2/26/2015			2.6	6.6	13.5	6.7	2.4
2/27/2015			3	6.5	12.5	6.7	3.2
2/28/2015			3	6.7	12.3	6.7	3.2
3/1/2015			3.4	6.8	12.3	6.7	3.3
3/2/2015	< 1.16	62.65	3	6.6	11.8	6.7	3.3
3/3/2015			3.2	6.5	14.6	3.1	3.1
3/4/2015			3.1	6.7	11.2	6.8	3.1
3/5/2015			3.9	6.8	11.5	6.8	2.4
3/6/2015			3.6	6.7	13.8	6.7	2.5
3/7/2015			3.4	6.8	15.7	6.8	3.6

3/8/2015			3.2	6.8	16.4	6.7	3.7
3/9/2015			3.7	6.7	14.8	6.7	3.4
3/10/2015			3.2	6.7	16.6	6.7	5.2
3/11/2015			3.1	6.8	16.6	6.7	3.8
3/12/2015			3.4	6.8	18.5	6.7	4.3
3/13/2015			3.2	6.9	18	6.7	3.5
3/14/2015			3.2	7.1	19.3	6.8	3.8
3/15/2015			3.5	6.8	18.2	6.7	4.7
3/16/2015			3.5	6.8	18.2	6.7	4.9
3/17/2015			3.5	6.7	19.6	6.8	3.5
3/18/2015			3.7	6.9	18.3	6.8	3.5
3/19/2015			3.6	6.8	18.7	6.9	4.6
3/20/2015							
3/21/2015			3.6	6.5	16.7	7	5.8
3/22/2015			3.5	6.8	17.5	6.3	5.6
3/23/2015			3.3	6.7	18.8	6.8	6.3
3/24/2015			3.7	6.8	20	6.9	4.3
3/25/2015			3.2	6.8	21	6.9	5
3/26/2015			2.7	6.9	17.8	6.8	4
3/27/2015			4	6.9	18.8	6.9	3.8
3/28/2015			3.2	6.8	20.5	6.9	3.8
3/29/2015			3	6.8	20.4	6.8	3.5
3/30/2015			4	6.7	19.5	7	2.8
3/31/2015			3	6.7	22.2	6.9	2.6
4/1/2015			2.6	6.7	22.6	6.9	2.8
4/2/2015			2.8	6.8	22.8	6.9	2.3
4/3/2015			2.9	6.8	20.8	6.9	2.1
4/4/2015			2.5	6.8	22.2	7	1.9
4/5/2015			2.8	6.8	17.6	6.9	2.4
4/6/2015	< 1.323	18.519	2.9	6.7	19.2	7	2.5
4/7/2015			3.1	6.7	21.6	7.2	2.2
4/8/2015			3.1	6.8	21.7	7	2.2
4/9/2015			2.9	6.8	22.9	7.1	1.7
4/10/2015			3.1	6.8	19.3	7	1.7
4/11/2015			3	6.8	20.3	6.9	2
4/12/2015			3.2	6.8	21.5	7	2.1
4/13/2015			3.1	6.7	20.2	6.9	1.7
4/14/2015			3.1	6.7	18.7	6.8	2.6
4/15/2015			3.2	6.9	19.2	6.9	2
4/16/2015			3	6.9	20.5	6.8	1.8
4/17/2015			2.5	6.9	20.6	4.7	1.7
4/18/2015			2.8	6.7	21.9	6.9	2.2
4/19/2015			2.9	6.8	19.8	6.7	2
4/20/2015			2.9	6.8	19.7	6.9	1.8
4/21/2015			2.9	6.8	21.2	6.8	1.9
4/22/2015			2.5	6.9	21.6	6.9	2
4/23/2015			2.6	6.9	20.9	6.9	2.2
4/24/2015			2.8	6.9	21.2	6.9	1.8
4/25/2015			2.9	6.9	22.8	6.9	2.1
4/26/2015			3.5	6.8	22.1	6.9	2.3
4/27/2015			2.4	6.8	19	6.8	3.8
4/28/2015			2.5	7	19.1	6.9	6.3
4/29/2015			2.3	7	18.9	6.9	3.6
4/30/2015			2.8	7	23.7	6.8	2.7
5/1/2015			2.7	6.9	21.8	6.8	2

5/2/2015			2.7	7	23.8	6.8	1.9
5/3/2015			2.6	7	23.2	6.8	1.7
5/4/2015	< 1.333	8	2.7	6.9	23	6.9	2.4
5/5/2015			2.4	6.8	20.9	6.8	1.8
5/6/2015			2.5	6.8	22.9	6.9	3.6
5/7/2015			3.6	7	21.4	6.9	3.3
5/8/2015			3.5	6.9	21.6	7	2.5
5/9/2015			2.8	7.1	21.5	6.9	3.8
5/10/2015			3.2	7	22.5	6.9	3.8
5/11/2015			3.6	7.2	20.4	7	3.3
5/12/2015			3.7	7.1	21.6	7	3.1
5/13/2015			3.5	7.3	20.4	7	2.1
5/14/2015			3	7	22.2	6.9	3.5
5/15/2015			3.3	7.1	22.9	7.1	2
5/16/2015			3.5	7.1	22.6	7.2	2.2
5/17/2015			2.2	7.2	23.3	6.6	2.8
5/18/2015			3.3	7.1	22.5	6.6	2.3
5/19/2015			3	7.2	22.7	7.1	2
5/20/2015			3.1	7	21.9	7.1	2.8
5/21/2015			2.1	7.1	20.8	6.9	3.6
5/22/2015			2.7	7.2	20.4	6.9	2.5
5/23/2015			2.5	7.1	20	7.1	5.3
5/24/2015			2.7	7.1	20.5	7.2	8.1
5/25/2015			DPR Plant				
5/26/2015							
5/27/2015							
5/28/2015							
5/29/2015							
5/30/2015							
5/31/2015							
6/1/2015			2	8	24.6	7	1.72
6/2/2015			3.5	7.1	24.2	7	3.8
6/3/2015			3.6	7.2	23.6	7	1.9
6/4/2015			2.8	7.2	24.4	7	1.7
6/5/2015			3.3	7.2	26.2	6.8	2
6/6/2015			3.3	7.1	24.5	7	2.2
6/7/2015			3.3	7.1	25.2	7	1.2
6/8/2015	< 1.333	14.667	3.2	7.4	26.2	7	1.4
6/9/2015			2.4	7.1	26.7	7	1.3
6/10/2015			3.1	7	26.9	7	1.1
6/11/2015			3.3	7.1	26.6	7	1.1
6/12/2015			3.1	7	25.2	7	1.5
6/13/2015			3.2	7	23.8	7	3.4
6/14/2015			2.8	7	24	7	2.6
6/15/2015			3.2	7.2	23.9	7	1.5
6/16/2015			3	7.1	24.8	7	2.6
6/17/2015			2.8	7.2	24	7	2
6/18/2015			2.6	7.2	25	7	2.1
6/19/2015			3	7.2	25.2	7	2.5
6/20/2015			3	7.3	26.2	6.9	2
6/21/2015			2.9	7.2	26.1	7	1.9
6/22/2015			3.4	7.2	25.2	7	1.7
6/23/2015			3.1	7.1	26	7.1	1.4
6/24/2015			2.9	7.2	27.1	7	1.3
6/25/2015			3.2	7.2	27.7	7	1.5

6/26/2015			3	7.2	26.3	7	1.6
6/27/2015			2.9	7.1	26.7	5.5	1.6
6/28/2015			2.5	7.2	26.6	4.4	1.7
6/29/2015			2.5	7.1	26.9	5.1	1.5
6/30/2015			2	7	28.6	5.1	2.8
7/1/2015			2.5	7.1	28.5	5.1	1.5
7/2/2015			2.6	7	28.6	5.1	1.3
7/3/2015			2.8	7	27.5	5.1	1.1
7/4/2015			2.4	6.9	28.1	5.1	2
7/5/2015			2.8	7	27.6	5.2	1.7
7/6/2015	< 1.333	2.667	2.6	7	27.6	5.1	1.3
7/7/2015			2.1	7.1	26.5	5.1	2.1
7/8/2015			2.3	7	25.5	5.1	1.2
7/9/2015			2.5	7.2	26.3	5.1	1.2
7/10/2015			2.7	7.6	25.4	5.1	1.7
7/11/2015			2.2	7.1	26.4	5.1	1.3
7/12/2015			2.2	7.2	26.2	5.1	2.1
7/13/2015			2.4	7.1	27.6	5.1	1.4
7/14/2015			2	7.1	26.5	5.1	1
7/15/2015			2.3	7	28.3	5.1	1
7/16/2015			2.3	7.1	28.8	5.1	1.2
7/17/2015			2	7.1	27.8	5.1	1.4
7/18/2015			2.2	7	28.9	5.2	1.2
7/19/2015			2.5	6.9	28.4	5.2	1.3
7/20/2015			2.3	7.3	27.1	5.1	1.1
7/21/2015			1.7	6.9	32.1	5.3	1

In									
	RO Settled Water	MF Clarifier Effluent			MF Cell Filtrate (Laser Turbidimeter)				
3	3	3	3	3	288	288	288	288	288
Alk (ppm)	Turbidity (NTU)	Mono-Cl (ppm)	pH	Temp	Cell 1 NTU	Cell 2 NTU	Cell 3 NTU	Cell 4 NTU	Cell 5 NTU
122	1.6	0.56	7	12.4	X	X	X	0.026	0.020
119	2.1	0.53	7	11.5	X	X	X	0.024	0.020
124	1.4	0.71	7	11.6	X	X	X	0.024	0.020
117	1.7	0.8	6.9	13.4	X	X	X	0.024	0.020
124	2	0.85	7	13.6	X	X	X	0.027	0.020
107	1.5	0.7	7	13.1	X	X	X	0.027	0.038
110	1.8	0.73	7	12.7	X	X	X	0.024	0.020
89	1.5	0.86	6.8	10.9	X	X	X	0.024	0.020
96	1.5	0.91	6.9	12.2	X	X	X	0.026	0.020
117	1.4	0.78	7	10.4	X	X	X	0.024	0.021
115	1.4	0.79	7	9.7	X	X	X	0.025	0.019
124	2.3	0.89	6.9	10.1	X	X	X	0.027	0.018
125	1.9	0.97	7	11.1	X	X	X	0.024	0.018
123	1.7	0.85	7	12	X	X	X	0.027	0.022
111	1.4	0.75	7	10.6	X	X	X	0.026	0.019
125	1.4	0.8	6.9	9.5	X	X	X	0.024	0.019
139	1.5	0.79	6.9	11.3	X	X	X	0.024	0.020
135	1.8	0.72	7	13	X	X	X	0.024	0.020
136	1.8	0.65	7	14.1	X	X	X	0.023	0.028
129	1.7	0.67	7	15.8	X	X	X	0.023	0.021
130	1.9	0.51	7	16.2	X	X	X	0.023	0.020
128	2.5	0.45	6.9	17.3	X	X	X	0.024	0.020
118	1.8	0.21	6.9	17.3	X	X	X	0.023	0.020
117	1.4	0.34	6.9	17.7	X	X	X	0.023	0.021
122	1.7	0.28	7	17.8	X	X	X	0.023	0.020
122	1.7	0.2	7	17.5	X	X	X	0.023	0.020
137	2.1	0.57	7	17.5	X	X	X	0.023	0.020
125	2.1	0.62	6.9	17	X	X	X	0.023	0.020
111	2.5	0.55	6.9	16.4	X	X	X	0.024	0.021
101	2	0.57	6.9	14.5	X	X	X	0.025	0.022
108	1.5	0.5	6.9	13.3	X	X	X	0.029	0.023
97	1.6	0.51	6.8	13.9	X	X	X	0.033	0.022
98	2.4	0.53	6.8	15.7	X	X	X	0.029	X
105	2.2	0.53	6.8	16.5	X	X	X	0.030	0.043
116	1.8	0.4	6.9	14	X	X	X	0.033	0.024
101	1.9	0.38	6.8	11.2	X	X	X	0.033	0.022
98	1.6	0.52	6.8	11.4	X	X	X	0.031	0.022
110	1.4	0.45	6.9	12.8	X	X	X	0.031	0.022
110	1.5	0.47	6.8	14.2	X	X	X	0.034	0.023
114	1.7	0.49	6.9	15.9	X	X	X	0.035	0.023
108	1.5	0.43	6.8	15.2	X	X	X	0.033	0.023
110	1.5	0.53	6.9	15.6	X	X	X	0.034	0.022
99	1.6	0.41	6.8	16.7	X	X	X	0.036	0.023

91	2.2	0.44	6.9	17.1	X	X	X	0.035	0.023
115	1.3	0	6.7	24.4	0.019	0.012	X	X	X
116	1.26	0	6.6	22.5	0.019	0.012	X	X	X
129	1.34	0	6.7	23	0.018	0.012	0.201	X	X
120	1.1	0.22	6.7	23.9	X	0.012	0.017	X	X
117	0.98	1.4	6.7	24.4	X	0.011	0.017	X	X
125	1.1	1.41	6.8	25.1	X	0.011	0.017	X	X
124	1.1	1.2	6.7	25.6	X	X	0.018	0.027	X
120	1.1	1.3	6.7	25.4	X	X	0.020	0.026	X
111	1	1.4	6.7	24.4	X	X	0.020	0.026	X
99	1	1.7	6.7	23.9	X	X	X	0.026	0.020
99	1	1.7	6.6	24.2	X	X	X	0.026	0.018
94	1	1.9	6.5	24.3	X	X	X	0.026	0.018
90	0.9	2	6.5	24.3	0.020	X	0.051	X	0.019
117	1	1.9	6.5	25.4	0.020	0.012	0.018	0.026	0.018
103	0.8	2	6.5	26.1	0.020	X	X	X	0.018
107	0.75	1.7	6.6	25.6	0.020	0.013	X	X	X
90	0.65	1.3	6.5	25.8	0.020	0.011	X	X	X
71	0.62	1.09	6.5	26.8	0.020	0.011	0.071	X	X
60	0.58	1.2	6.4	27.8	X	0.012	0.018	X	X
68	0.9	1.1	6.4	28	X	0.012	0.018	X	X
101	0.68	0.79	6.4	28.6	X	0.011	0.018	X	X
96	0.8	0.84	6.5	28.6	X	0.010	0.017	0.027	X
102	0.8	1.3	6.6	28.3	X	X	0.017	0.026	X
103	0.9	1.1	6.6	27	X	X	0.017	0.026	X
89	0.68	1.2	6.5	25	X	X	X	0.026	0.019
62	0.7	1	6.5	24.3	X	X	X	0.026	0.018
68	0.65	1.1	6.5	26.6	X	X	X	0.026	0.018
69	0.87	1	6.4	27.5	0.020	X	X	X	0.017
67	0.64	1.1	6.4	26.4	0.020	0.041	X	X	0.018
70	0.7	1.3	6.4	26.3	0.020	X	X	X	0.018
93	1	1.8	6.7	28.3	0.028	0.017	0.024	0.028	0.020
88	2.9	1.5	6.7	27.2	0.039	0.017	0.023	0.028	0.019
99	1.7	1.5	6.9	27.3	0.028	0.018	0.021	0.028	0.019
92	1.2	1.3	6.8	27.7	0.028	0.017	0.022	0.027	0.019
77	1.2	1.3	6.8	28.7	0.028	0.016	0.022	0.028	0.020
68	1.4	1.2	6.6	28.6	0.028	0.015	0.021	0.027	0.019
70	1.7	1.4	6.7	25.3	0.029	0.016	0.022	0.027	0.019
73	1.3	1.3	6.7	25.5	0.030	0.017	0.021	0.027	0.020
68	1.1	1.4	6.5	24.9	0.029	0.017	0.022	0.027	0.019
69	2.6	2.1	6.7	23.7	0.029	0.015	0.023	0.027	0.019
73	2.8	2.1	6.6	24.4	0.029	0.015	0.021	0.027	0.019
73	3.8	1.9	6.5	26.2	0.029	0.015	0.022	0.027	0.019
77	1.1	1.6	6.6	27.1	0.028	0.015	0.021	0.027	0.019
86	1.1	1.9	6.6	28.7	0.028	0.015	0.020	0.026	0.018
81	1.3	2.1	6.6	28.5	0.028	0.015	0.020	0.026	0.018
68	1.2	3	6.5	29	0.028	0.015	0.020	0.026	0.018
72	1.2	1.9	6.5	28.7	0.028	0.015	0.019	0.026	0.018
75	1.1	1.4	6.6	29.1	0.027	0.015	0.020	0.026	0.018
78	1.1	1.5	6.6	28	0.028	0.015	0.020	0.026	0.018
68	1.2	1.2	6.6	27	0.027	0.015	0.021	0.026	0.018
63	1.5	2.4	6.5	25.6	0.027	0.016	0.023	0.026	0.019
67	1.5	2.3	6.5	25.6	0.027	0.015	0.022	0.026	0.019

66	1.6	2.3	6.5	25.8	0.027	0.015	0.020	0.027	0.019
63	1.3	2.5	6.5	26.5	0.027	0.014	0.021	0.026	0.019
67	1.3	2.3	6.5	27.9	0.027	0.015	0.021	0.026	0.019
52	1	2.6	6.4	27.4	0.027	0.016	0.021	0.026	0.019
56	1.2	2.8	6.4	27.3	0.027	0.016	0.021	0.026	0.019
54	1.2	1.9	6.5	27.3	0.027	0.015	0.020	0.025	0.018
58	1.3	1.9	6.4	28.2	0.027	0.015	0.020	0.025	0.017
75	1.3	1.6	6.5	29.1	0.027	0.015	0.017	0.025	0.017
59	1.3	1.8	6.5	29.2	0.027	0.015	0.014	0.025	0.017
63	1.1	1.6	6.5	28.3	0.027	0.014	0.022	0.025	0.017
51	1	1.6	6.5	28.4	0.027	0.015	0.022	0.026	0.018
43	0.9	2	6.4	28.7	0.027	0.014	0.022	0.025	0.017
54	1.2	2	6.3	28.7	0.026	0.014	0.023	0.025	0.017
48	1.2	1.9	6.4	27.7	0.027	0.014	0.023	0.025	0.017
57	0.9	1.1	6.3	27.8	0.024	0.014	0.023	0.024	0.014
61	1	1.5	6.5	27.8	0.030	0.014	0.022	0.025	0.015
55	1	1.6	6.4	27.3	0.024	0.015	0.023	0.025	0.016
47	1	1.9	6.4	28.6	0.024	0.014	0.023	0.025	0.015
49	1.1	1.9	6.3	28.4	0.024	0.014	0.023	0.026	0.015
51	1.2	2	6.4	27.8	0.024	0.014	0.023	0.025	0.015
65	1.4	1.6	6.5	28.5	0.025	0.015	0.024	0.026	0.015
62	1.2	1.8	6.5	28.1	0.024	0.014	0.024	0.025	0.014
64	1.2	1.6	6.5	30	0.024	0.014	0.024	0.025	0.014
51	1.1	1.6	6.5	29.1	0.024	0.014	0.024	0.025	0.014
51	0.9	1.7	6.4	28.5	0.024	0.014	0.024	0.025	0.014
40	0.8	1.8	6.3	28.5	0.026	0.014	0.024	0.025	0.013
46	1.3	2	6.3	29.6	0.022	0.014	0.025	0.025	0.014
41	1.7	1.6	6.3	30.3	0.022	0.014	0.022	0.022	0.013
45	1.2	1.8	6.3	27.9	0.022	0.014	0.022	0.021	0.013
41	0.9	1.6	6.2	27.4	0.022	0.014	0.022	0.021	0.013
47	0.8	1.5	6.3	28.3	0.021	0.014	0.023	0.021	0.013
41	1	1.7	6.3	28.7	0.022	0.014	0.023	0.021	0.013
40	1.1	1.5	6.2	28.8	0.021	0.014	0.022	0.022	0.013
37	1.1	2	6.1	29.7	0.022	0.014	0.022	0.022	0.013
46	1.1	1.4	6.3	29	0.022	0.013	0.022	0.022	0.012
49	1.1	1.3	6.3	28.6	0.022	0.014	0.022	0.023	0.012
55	0.92	1.4	6.4	29.4	0.023	0.014	0.022	0.023	0.011
51	1	1.6	6.7	26.2	0.022	0.014	0.022	0.023	0.012
48	0.97	1.6	6.4	26.2	0.023	0.015	0.022	0.023	0.012
53	0.92	1.9	6.3	28	0.022	0.014	0.022	0.023	0.012
49	1.1	1.9	6.3	28	0.023	0.014	0.022	0.024	0.011
50	1.3	1.1	6.4	27.8	0.023	0.013	0.023	0.023	0.012
50	1	1.8	6.5	26.4	0.023	0.014	0.022	0.024	0.012
32	1.2	1.5	6.2	24	0.023	0.013	0.022	0.024	0.013
39	1.2	1.8	6.2	23.4	0.023	0.020	0.022	0.024	0.013
39	1.1	1.5	6.2	24.4	0.023	0.015	0.024	0.022	0.012
38	1.3	2.5	6.1	26.2	0.023	0.020	0.023	0.023	0.012
45	1.2	2.3	6.3	26.3	0.022	0.014	0.024	0.023	0.012
56	1.1	1.5	6.4	27.1	0.022	0.014	0.023	0.023	0.012
59	1.2	1.7	6.4	26.9	0.022	0.015	0.028	0.023	0.012
49	1	1.4	6.4	26.1	0.023	0.014	0.024	0.023	0.012
61	1.2	1.6	6.5	26.9	0.023	0.014	0.024	0.023	0.012
44	0.97	1.2	6.4	27.5	0.023	0.014	0.024	0.022	0.012
46	1	1.7	6.3	26.9	0.023	0.014	0.024	0.023	0.013
50	1.6	1.6	6.4	25.5	0.022	0.014	0.024	0.023	0.012

44	1.2	1.6	6.3	24.9	0.022	0.014	0.023	0.023	0.012
50	1.3	1.4	6.4	25.4	0.022	0.014	0.024	0.023	0.012
47	1.1	2.4	6.3	25.5	0.023	0.014	0.024	0.022	0.012
50	1.3	1.7	6.2	25	0.023	0.014	0.024	0.021	0.012
41	1.3	1.5	6.3	25.3	0.023	0.014	0.024	0.020	0.012
38	3.1	1.8	6.2	26	0.023	0.014	0.025	0.021	0.012
43	1.1	2.1	6.2	25.2	0.023	0.014	0.024	0.020	0.009
52	1.5	2	6.3	26.3	0.023	0.014	0.024	0.020	0.008
52	1.2	1.5	6.4	26.1	0.023	0.015	0.024	0.020	0.013
25	0.97	1.8	6.4	24.5	0.023	0.014	0.024	0.019	0.013
54	1	1.7	6.5	24.1	0.023	0.015	0.024	0.020	0.013
65	0.99	1.6	6.4	23.3	0.023	0.014	0.024	0.020	0.013
55	1.2	1.6	6.5	24.7	0.023	0.015	0.024	0.020	0.013
40	1.2	1.6	6.5	26.1	0.025	0.014	0.025	0.024	0.013
59	1.7	1.8	6.5	25.9	0.026	0.014	0.026	0.026	0.012
50	1	1.4	6.6	25.7	0.026	0.014	0.026	0.026	0.012
56	1.1	1.1	6.4	24.6	0.026	0.015	0.026	0.027	0.013
30	1.2	1.2	6.4	22.2	0.026	0.014	0.026	0.026	0.013
36	1.1	1.2	6.2	22.9	0.026	0.014	0.026	0.026	0.013
30	1.3	1.7	6.1	21.5	0.026	0.014	0.026	0.026	0.012
50	1.3	1.3	6.2	22.3	0.026	0.015	0.025	0.024	0.013
51	1.3	1.6	6.4	22.4	0.026	0.014	0.026	0.025	0.013
37	1.3	2.2	6.3	23.1	0.026	0.014	0.027	0.025	0.013
47	1.7	1.2	6.3	23.5	0.026	0.014	0.026	0.025	0.013
49	2	1.1	6.3	23.3	0.026	0.014	0.026	0.025	0.013
59	1.9	1.3	6.4	22.8	0.026	0.014	0.026	0.025	0.013
55	1.7	1.5	6.4	23.3	0.026	0.014	0.026	0.024	0.013
57	1.4	1.9	6.4	24.7	0.027	0.015	0.025	0.022	0.013
56	1.5	1.2	6.3	23.4	0.026	0.015	0.024	0.022	0.013
48	1.6	1.7	6.3	24.2	0.026	0.014	0.024	0.022	0.013
33	1.3	1.5	6.2	23.6	0.026	0.014	0.025	0.022	0.013
47	1.3	1.5	6	23.8	0.026	0.035	0.025	0.023	0.013
50	1.5	1.6	6.2	24.1	0.026	X	0.024	0.023	0.013
45	1.5	1.9	6.3	23.5	0.026	0.015	0.025	0.022	0.013
55	1.6	1.3	6.3	22.8	0.025	0.015	0.024	0.023	0.012
50	1.8	1.3	6.4	22.6	0.024	0.015	0.025	0.024	0.013
49	1.4	2	6.3	21.9	0.024	0.014	0.024	0.024	0.012
52	1.5	1.8	6.4	21.1	0.025	0.015	0.025	0.024	0.013
57	1.4	1.5	6.4	19.9	0.025	0.015	0.025	0.024	0.013
49	1.3	1.1	6.4	20.2	0.025	0.015	0.024	0.024	0.013
34	1.6	1.4	6.2	21	0.025	0.015	0.024	0.023	0.013
42	1.6	1.3	6.2	20.2	0.025	0.014	0.024	0.021	0.013
46	1.7	1.9	6.3	19.9	0.026	0.014	0.023	0.021	0.013
55	1.6	1.9	6.3	20	0.025	0.015	0.024	0.021	0.013
49	1.5	2	6.4	19.6	0.026	0.016	0.024	0.021	0.013
58	1.5	2.7	6.4	19.5	0.026	0.015	0.024	0.021	0.013
46	1.4	2.2	6.4	20.4	0.026	0.015	0.024	0.021	0.013
46	1.2	3	6.4	21.1	0.025	0.015	0.024	0.021	0.013
47	1.2	2.7	6.4	17.9	0.026	0.015	0.024	0.021	0.013
49	1.3	1.9	6.5	16.3	0.025	0.015	0.024	0.021	0.013
50	1.5	2.2	6.3	15.4	0.026	0.015	0.024	0.021	0.013
60	1.5	2.3	6.4	14.8	0.027	0.015	0.025	0.025	0.013
54	1.1	2.2	6.4	16.9	0.027	0.015	0.024	0.025	0.013
67	1.2	2.1	6.6	15.4	0.027	0.015	0.025	0.025	0.013
58	1.4	2.8	6.5	15.7	0.028	0.015	0.025	0.025	0.013

70	1.4	2.5	6.6	16.3	0.028	0.014	0.025	0.025	0.013
62	1.4	1.7	6.6	17.8	0.028	0.015	0.025	0.025	0.013
72	1.3	1.7	6.5	18.2	0.028	0.015	0.024	0.025	0.013
61	1.3	2	6.5	20.3	0.028	0.014	0.025	0.025	0.013
73	1.1	2.3	6.6	19.5	0.028	0.016	0.026	0.024	0.013
66	1.7	2.9	6.6	18.9	0.028	0.014	0.026	0.024	0.013
57	1.8	4.1	6.6	17.9	0.027	0.016	0.026	0.024	0.013
68	1.4	2.4	6.5	17.4	0.027	0.015	0.025	0.024	0.013
83	1.5	2.4	6.6	17.8	0.027	0.015	0.026	0.024	0.013
81	1.4	2.3	6.7	17.4	0.027	0.015	0.026	0.024	0.014
76	1.9	2.7	6.6	18.2	0.027	0.015	0.026	0.024	0.014
72	1.7	2.4	6.6	19.5	0.027	0.014	0.026	0.024	0.014
62	1.7	2.4	6.5	19.3	0.026	0.013	0.026	0.024	0.013
52	1.6	2.2	6.5	16.1	0.026	0.015	0.026	0.024	0.013
47	1.6	2.1	6.3	15.9	0.027	0.013	0.026	0.024	0.013
58	1	2.4	6.4	17.2	0.026	0.014	0.025	0.024	0.014
55	1.7	2.7	6.4	18.4	0.026	0.014	0.026	0.025	0.014
65	1.6	2.8	6.5	19.3	0.026	0.013	0.025	0.025	0.014
51	1.4	2.2	6.4	19	0.026	0.014	0.026	0.024	0.014
61	1.3	3	6.4	18.7	0.026	0.013	0.025	0.025	0.014
49	1.7	3.3	6.4	18.7	0.026	0.013	0.025	0.024	0.013
73	1.4	2.7	6.4	18.3	0.026	0.013	0.025	0.024	0.014
79	1.7	2.9	6.6	18.7	0.027	0.016	0.024	0.025	0.013
83	1.6	2.3	6.7	19.4	0.027	0.014	0.023	0.025	0.014
71	1.7	2.2	6.6	19.5	0.026	0.016	0.024	0.025	0.013
73	1.6	2.3	6.7	18.9	0.025	0.016	0.024	0.024	0.013
63	1.6	2.3	6.5	19.8	0.025	0.015	0.017	0.023	0.014
66	1.5	3.1	6.5	18.2	0.025	0.014	0.024	0.024	0.014
68	1.2	2.5	6.5	17.8	0.025	0.016	0.024	0.024	0.013
82	1.4	2	6.5	17.6	0.026	0.016	0.024	0.025	0.014
80	1.7	2.2	6.7	16.7	0.025	0.015	X	0.024	0.014
90	1.3	2.6	6.6	17.2	0.025	0.016	0.018	0.023	0.014
82	1.5	2.7	6.6	16.7	0.025	0.016	0.015	0.023	0.014
84	1.4	2.7	6.7	15.5	0.024	0.015	0.015	0.023	0.014
68	2.3	2.4	6.6	17.4	0.025	0.016	0.015	0.023	0.014
68	1.5	2.6	6.5	16.9	0.025	0.015	0.015	0.023	0.014
74	1.5	2.7	6.6	16.6	0.026	0.015	0.015	0.023	0.014
71	1.8	2.6	6.5	15.7	0.026	0.014	0.015	0.023	0.014
80	1.6	2.2	6.5	17.2	0.025	0.015	0.015	0.023	0.014
60	1.5	2.1	6.6	15.8	0.025	0.014	0.014	0.023	0.014
55	1.4	1.9	6.6	15.5	0.025	0.016	0.014	0.023	0.014
51	1.1	1.9	6.3	14.6	0.025	0.015	0.015	0.023	0.014
59	1.5	1.8	6.4	15.7	0.026	0.015	0.015	0.023	0.014
56	2.1	2.1	6.6	14.6	0.026	0.016	0.015	0.023	0.014
55	1.9	2.3	6.4	12.5	0.026	0.014	0.015	0.023	0.014
58	2	1.9	6.4	13.1	0.026	0.015	0.015	0.023	0.014
66	2	1.9	6.4	13.6	0.026	0.015	0.015	0.022	0.014
60	2	3.3	6.4	12.6	0.026	0.016	0.015	0.022	0.014
59	1.9	3.1	6.5	14.1	0.025	0.015	0.015	0.022	0.014
64	1.7	2.9	6.7	14.4	0.026	0.014	0.015	0.021	0.012
75	2.2	2.7	6.5	12.5	0.026	0.014	0.015	0.021	0.013
74	1.9	2.2	6.6	11.6	0.026	0.015	0.016	0.021	0.013
82	1.8	1.9	6.7	12.5	0.026	0.015	0.016	0.021	0.012
73	1.4	3.2	6.7	12.5	0.026	0.015	0.015	0.021	0.013
71	1.7	2.2	6.6	13.2	0.025	0.014	0.015	0.021	0.013

66	1.7	2.8	6.6	13.2	0.018	0.013	0.016	0.021	0.013
68	1.6	2.2	6.5	12.1	0.016	0.014	0.015	0.021	0.013
79	1.5	2.6	6.6	13.3	0.017	0.013	0.015	0.020	0.012
79	1.8	3.6	6.5	13.3	X	0.016	0.015	0.022	0.013
82	1.5	5.4	6.5	13.8	0.024	0.015	0.017	0.022	0.013
90	1.7	2.8	6.6	14.2	0.018	0.013	0.015	0.021	0.012
75	1.5	2	6.6	15.3	0.017	0.013	0.015	0.021	0.012
75	1.6	3.6	6.6	16.7	0.017	0.013	0.015	0.021	0.012
81	1.8	3.2	6.6	16.4	0.017	0.014	0.015	0.020	0.012
92	1.5	2.6	6.7	16.6	0.017	0.014	0.015	0.019	0.012
98	2.1	2.4	6.8	12.8	0.017	0.013	0.015	0.019	0.012
91	3.7	3	6.7	14.7	0.017	0.013	0.015	0.019	0.012
87	2	3.3	6.7	15	0.017	0.013	0.014	0.019	0.012
95	2.2	2.7	6.7	14.9	0.017	0.013	0.014	0.019	0.012
81	2	2.2	6.7	16.3	0.017	0.013	0.014	0.019	0.012
74	1.7	2.7	6.6	17.3	0.017	0.013	0.015	0.019	0.012
88	1.7	2.7	6.6	17.9	0.017	0.013	0.015	0.020	0.012
78	1.6	2.8	6.7	16.9	0.017	0.013	0.015	0.020	0.012
81	1.4	2.4	6.6	17.2	0.017	0.013	0.015	0.020	0.012
80	1.3	2.5	6.7	15.9	0.017	0.013	0.015	0.020	0.012
75	1.4	2.6	6.6	15.8	0.017	0.014	0.014	0.021	0.012
76	1.2	2.4	6.6	16.7	0.017	0.013	0.014	0.020	0.012
71	1.5	3.1	6.6	14.8	0.017	0.014	0.015	0.021	0.012
86	1.4	3.1	6.6	14.7	0.017	0.013	0.015	0.020	0.012
74	1.3	2.6	6.6	13.5	0.017	0.014	0.015	0.021	0.017
74	1.1	2.6	6.6	15	0.017	0.015	0.015	0.021	0.013
65	1.3	3.4	6.5	15.8	0.018	0.014	0.015	0.021	0.013
59	1.4	2.8	6.5	18.1	0.018	0.014	0.015	0.020	0.013
45	1.4	2.6	6.4	18	0.017	0.013	0.015	0.020	0.013
42	1.2	2.8	6.3	18.3	0.017	0.013	0.015	0.021	0.013
55	1.4	2.1	6.3	17.4	0.017	0.016	0.014	0.020	0.013
42	1.2	2.1	6.5	16.1	0.015	0.013	0.014	0.020	0.013
45	1.4	1.3	6.3	16.7	0.015	0.013	0.014	0.019	0.012
56	1.5	2	6.4	18.1	0.017	0.014	0.015	0.020	0.012
42	1.4	2.4	6.4	17	0.016	0.013	0.014	0.019	0.012
51	1.6	2.7	6.4	13.8	0.016	0.013	0.014	0.019	0.013
41	1.3	2.7	6.6	15.1	0.015	0.013	0.014	0.019	0.012
54	1.8	2.4	6.4	15.1	0.016	0.013	0.014	0.020	0.013
49	2.1	3.5	6.5	15.8	0.016	0.014	0.014	0.020	0.013
49	2	2.3	6.4	17	0.017	0.014	0.015	0.020	0.013
41	2.1	2.2	6.3	16.6	0.017	0.013	0.015	0.020	0.012
48	2.7	2.6	6.3	14.7	0.016	0.014	0.015	0.020	0.012
49	2.1	2.5	6.4	11.2	0.017	0.014	0.015	0.020	0.012
55	2.2	2.7	6.4	11	0.017	0.013	0.014	0.019	0.012
61	2.5	2.2	6.5	14.7	0.017	0.015	0.014	0.019	0.012
64	2.1	1.8	6.4	13.2	0.017	0.015	0.015	0.019	0.012
55	2	2.3	6.5	12.4	0.019	0.015	0.017	0.019	0.012
63	2.1	2.5	6.5	12.9	0.017	0.015	0.014	0.020	0.012
60	2.1	3.6	6.5	13	0.017	0.014	0.015	0.019	0.012
61	2.9	2.8	6.4	12.7	0.017	0.013	0.015	0.020	0.012
69	2.1	3.4	6.5	14.6	0.017	0.014	0.015	0.019	0.013
85	2.5	2.7	6.7	12.9	0.018	0.014	0.015	0.020	0.015
102	1.8	1.9	6.7	12.2	0.018	0.013	0.016	0.020	0.014
95	1.9	3.6	6.7	14.5	0.017	0.014	0.015	0.020	0.014
98	2	2.6	6.7	15	0.017	0.014	0.016	0.020	0.014

94	2.3	2.7	6.7	15.5	0.017	0.014	0.016	0.020	0.014
87	2.1	2.5	6.7	15.8	0.017	0.014	0.016	0.020	0.014
86	3.3	3.2	6.6	16.2	0.017	0.014	0.015	0.020	0.014
105	2.5	2.1	6.7	17.2	0.018	0.015	0.016	0.021	0.014
102	3.1	2.2	6.7	18.1	0.017	0.015	0.014	0.020	0.014
111	2.5	2.3	6.7	18	0.017	0.015	0.015	0.021	0.015
110	2.5	2.6	6.8	18.3	0.017	0.014	0.014	0.020	0.014
96	2.5	2.6	6.8	18.5	0.017	0.015	0.014	0.021	0.013
92	2.2	3.4	6.9	19.2	0.017	0.015	0.014	0.020	0.014
84	2.4	2.9	6.8	19.8	0.017	0.015	0.014	0.021	0.014
108	2.4	2.5	6.6	18.4	0.017	0.015	0.014	0.020	0.015
100	3.2	2.9	6.8	18.6	0.018	0.016	0.014	0.021	0.014
					0.017	0.015	0.014	0.020	0.015
86	2.9	3.3	6.7	17.4	0.018	0.015	0.014	0.020	0.015
97	2.3	2.5	6.8	18.4	0.018	0.015	0.014	0.021	0.016
85	2.5	2.5	6.7	19.3	0.017	0.015	0.013	0.020	0.014
102	2.5	2.7	6.8	19.4	0.017	0.014	0.009	0.021	0.015
86	2.2	2.4	6.8	20.8	0.017	0.014	0.013	0.020	0.015
107	2.3	1.7	6.7	17.7	0.017	0.013	0.015	0.020	0.014
103	1.7	2.5	6.8	18.2	0.017	0.014	0.015	0.020	0.015
102	2	2.5	6.8	19.9	0.017	0.013	0.015	0.020	0.015
90	2.1	1.9	6.8	20.2	0.017	0.014	0.015	0.020	0.014
79	1.9	2.5	6.6	20.6	0.016	0.013	0.014	0.020	0.014
72	1.3	2	6.6	21.7	0.016	0.014	0.012	0.020	0.014
82	1.3	1.4	6.7	21.3	0.018	0.013	0.012	0.020	0.014
82	1.5	1.6	6.8	22	0.017	0.013	0.012	0.020	0.014
82	1.4	1.7	6.7	21.3	0.016	0.013	0.012	0.019	0.013
78	1.6	1.6	6.7	20	0.016	0.013	0.012	0.019	0.013
76	1.3	1.7	6.7	18.9	0.016	0.013	0.012	0.019	0.013
67	1.4	2.1	6.7	19.6	0.016	0.013	0.012	0.018	0.013
75	1.2	2.2	6.6	21	0.018	0.013	0.016	0.021	0.013
86	1.3	1.9	6.8	21.9	0.022	0.013	0.017	0.025	0.014
82	1.4	1.8	6.8	22	0.024	0.013	0.018	0.025	0.015
75	1	1.9	6.8	20.1	0.023	0.013	0.017	0.025	0.015
89	1.1	2.2	6.7	20.6	0.025	0.014	0.018	0.027	0.015
82	1.2	2	6.7	21.6	0.026	0.013	0.017	0.027	0.015
68	1.2	2.1	6.7	20.7	0.026	0.014	0.017	0.026	0.014
74	1.3	1.8	6.7	18.9	0.023	0.015	0.020	0.025	0.014
103	1.6	2.2	6.7	19.7	0.023	0.014	0.016	0.026	0.013
96	1.3	1.9	6.8	22.9	0.022	0.014	0.016	0.025	0.013
85	1.1	1.5	6.8	22.8	0.023	0.014	0.016	0.024	0.013
79	1.4	1.9	6.7	20.9	0.024	0.013	0.016	0.025	0.013
74	1.1	1.9	6.7	20.8	0.024	0.014	0.016	0.025	0.013
70	1.4	1.8	6.8	20	0.025	0.014	0.018	0.026	0.014
77	1.5	1.8	6.8	20.8	0.023	0.014	0.019	0.025	0.014
90	1.3	1.6	6.7	20.5	0.022	0.015	0.024	0.026	0.013
91	1.5	1.7	6.8	20.7	0.022	0.014	0.023	0.025	0.013
98	2.2	2.3	6.9	21.2	0.022	0.014	0.023	0.025	0.013
103	1.5	1.9	6.9	21.4	0.021	0.014	0.023	0.026	0.013
97	1.5	1.9	6.9	22	0.023	0.014	0.023	0.027	0.013
89	2.3	2	6.8	20.1	0.021	0.014	0.022	0.025	0.013
104	4.8	1.9	6.9	19.1	0.026	0.015	0.024	0.026	0.015
126	3	2	6.9	18.8	0.026	0.016	0.023	0.024	0.015
122	1.7	1.7	7	21.6	0.023	0.018	0.023	0.024	0.014
116	1.6	1.8	7	21	0.024	0.016	0.023	0.024	0.015

116	1.8	1.9	6.8	22.6	0.029	0.016	0.023	0.025	0.015
104	1.4	1.9	6.9	23.2	0.026	0.015	0.023	0.023	0.017
93	1.7	2	6.9	22.3	0.027	0.015	0.023	0.023	0.014
89	1.2	1.2	6.7	21.5	0.026	0.015	0.024	0.024	0.014
107	2.9	2.2	6.7	22.3	0.029	0.017	0.023	0.027	0.015
156	2.3	2.5	6.9	21.3	0.028	0.016	0.021	0.025	0.016
155	1.6	2.4	7	21.8	0.027	0.022	0.023	0.028	0.015
154	2	2.1	7.1	21.7	0.029	0.016	0.023	0.023	0.016
161	2.1	1.9	7.1	22.1	0.028	0.017	0.022	0.024	0.015
182	1.9	2	7.1	20.7	0.026	0.016	0.023	0.026	0.014
206	1.8	2.7	7.1	20.8	0.027	0.016	0.022	0.025	0.014
203	1.6	2.3	7.1	20.6	0.026	0.015	0.021	0.024	0.014
181	2.4	2.7	7.1	21.7	0.023	0.014	0.018	0.021	0.013
192	1.8	2.3	7.1	21.8	0.022	0.014	0.018	0.021	0.012
184	1.7	2.2	7.1	22.3	0.021	0.013	0.017	0.021	0.012
197	1.4	2.7	7.2	22.9	0.020	0.014	0.017	0.022	0.012
185	1.8	2.2	7.2	22.4	0.020	0.013	0.017	0.020	0.012
179	1.9	2.4	7.2	22.8	0.022	0.015	0.017	0.020	0.013
149	2.3	2.1	7	21.6	0.024	0.014	0.018	0.022	0.013
177	2	1.5	7	21	0.027	0.015	0.019	0.023	0.014
169	2.6	1.5	7.1	20.6	0.026	0.015	0.019	0.022	0.016
161	2.6	1.7	7	21.1	0.024	0.016	0.017	0.022	0.014
168	3.2	1.5	7.1	20.3	0.026	0.015	0.018	0.022	0.014

Off-line due to extensive rain and flooding of the Wichita River at the RRWWTP

16	1.02	2.2	8	24	0.031	0.035	0.018	0.038	0.035
200	3.7	2.2	7.1	23.3	0.024	0.016	0.015	0.024	0.017
203	2.3	2.3	7.1	23.7	0.024	0.015	0.017	0.023	0.014
202	1.7	2.5	7.1	24.4	0.024	0.014	0.016	0.022	0.013
194	1.7	2.7	7.3	24.2	0.024	0.014	0.017	0.022	0.013
183	1.9	2.5	7.1	25.2	0.023	0.014	0.017	0.022	0.013
177	1.6	2.8	7	25.1	0.023	0.015	0.017	0.022	0.013
168	1.5	2.8	7.1	22.8	0.021	0.014	0.016	0.022	0.013
167	1.1	2.1	7.1	25.9	0.020	0.015	0.014	0.022	0.013
169	1.1	2.5	7.1	26.8	0.020	0.013	0.010	0.022	0.013
158	1.3	2.5	7.1	26.1	0.019	0.013	0.010	0.022	0.012
146	1.6	2.8	7	25.4	0.021	0.013	0.010	0.022	0.012
146	1.4	2.2	7.1	24.5	0.019	0.013	0.010	0.021	0.012
154	2.2	2.3	6.9	23.7	0.019	0.013	0.017	0.021	0.012
195	1.5	2.2	7.1	23.7	0.019	0.013	0.010	0.021	0.013
198	1.8	2.7	7.1	24	0.019	0.013	0.012	0.021	0.013
215	1.8	2.1	7	24.2	0.019	0.014	0.018	0.021	0.012
235	1.4	2.3	7.2	24.8	0.019	0.014	0.018	0.022	0.012
248	1.9	2.1	7.1	24.8	0.019	0.014	0.018	0.021	0.012
254	1.7	2.5	7.4	25.8	0.018	0.013	0.017	0.022	0.012
230	1.6	2.7	7.2	25.7	0.019	0.014	0.018	0.021	0.011
210	1.4	2.9	7.1	24.7	0.019	0.013	0.018	0.022	0.012
204	1.5	2.5	7	26.2	0.019	0.013	0.017	0.021	0.011
193	1.7	2.3	7.2	26.7	0.018	0.013	0.018	0.021	0.012
181	1.6	2.4	7.1	27.3	0.019	0.012	0.017	0.020	0.011

174	1.7	2.6	7.2	26	0.018	0.012	0.017	0.020	0.011
158	1.8	2.2	7.1	26.3	0.018	0.012	0.017	0.020	0.011
160	1.6	2.2	7.1	26.7	0.018	0.012	0.018	0.019	0.011
147	1.6	2	7.1	26.4	0.019	0.012	0.018	0.020	0.011
144	1.7	1.9	7.1	27.5	0.019	0.012	0.017	0.020	0.011
144	1.7	1.7	7.1	28.2	0.018	0.011	0.017	0.020	0.011
126	1.7	2	7	28.1	0.018	0.012	0.018	0.020	0.011
132	1.4	2.4	6.9	27.5	0.019	0.011	0.016	0.021	0.011
125	1.5	2.2	7	27.1	0.017	0.011	0.016	0.020	0.011
127	1.5	2.5	6.9	27.3	0.017	0.012	0.017	0.020	0.011
124	1.4	2.3	7.2	27.3	0.018	0.012	0.016	0.020	0.011
126	1.4	1.7	7.1	26.4	0.018	0.010	0.016	0.018	0.012
164	1.5	1.7	7	24.8	0.018	0.010	0.015	0.015	0.013
218	1.4	1.6	7.1	26.3					
224	1.6	1.6	7.1	24.8					
226	1.4	2.3	7	26.4					
214	1.7	1.8	7.1	26.1					
204	1.5	1.4	7	26.3					
198	1.3	1.7	7.1	27.3					
198	1.3	1.7	7	27.8					
202	1.4	1.5	7.1	28.2					
197	1.4	1.5	6.9	27.6					
197	1.4	1.3	7	28.3					
182	1.6	1.8	6.9	28.2					
161	1.5	1.3	7.1	26.5					
146	1.4	1.7	6.8	30.7					

intermediate Sampling Locations

MF Combined Filtrate			RO Salt Rejection						Splitter
3	3	3	3	3	3	3	3	3	3
Mono-Cl (ppm)	pH	Temp	Train 1	Train 2	Train 3	Train 4	Train 5	Train 6	Turbidity (NTU)

Data was provided by online analyzer, data was not used due to unreliable readings

6.7	14	X	X	X	97.8	X	X	9.1
6.8	12.4	X	X	X	98.0	X	X	11.4
6.7	11.9	X	X	X	98.2	X	X	11.4
6.5	13	X	X	X	98.3	X	X	11.1
6.9	13.7	X	X	X	98.2	X	X	10.3
6.8	13.5	X	X	X	98.3	X	X	10.5
6.8	14.2	X	X	X	98.3	X	X	12.6
6.8	12.9	X	X	X	98.4	X	X	12.3
6.5	13.5	X	X	X	98.4	X	X	11.6
6.4	12	X	X	X	98.4	X	X	12.6
6.5	11.1	X	X	X	98.5	X	85.6	13.3
6.4	11.3	X	X	X	98.5	X	85.6	14.9
6.7	12	X	X	X	98.5	X	X	13.9
6.8	13	X	X	X	98.4	X	X	13.8
6.5	12.7	X	X	X	98.3	X	85.6	13.7
6.4	11.5	X	X	X	98.4	X	85.6	14.2
6.8	11.8	X	X	X	98.4	X	X	14
6.7	13.1	X	X	X	98.4	X	X	13
6.6	14.2	X	X	X	98.9	X	X	13.6
6.2	15.8	X	X	X	98.9	X	X	13.9
6.9	17.1	X	X	X	98.2	X	X	14.6
6.6	17.3	X	X	X	98.1	X	85.6	14.3
6.6	18.3	X	X	X	98.1	X	83.7	13.9
6.6	18.2	X	X	X	99.2	X	X	15
6.5	17.5	X	X	X	98.1	X	X	16.7
6.5	17.4	X	X	X	98.2	X	X	15
6.7	18	X	X	X	98.1	X	X	16
6.7	17.4	X	X	X	98.1	X	X	16.5
6.4	17.2	X	X	X	98.2	X	X	17.3
6.3	15.9	X	X	X	98.2	X	X	17.1
6.4	14.2	X	X	X	99.0	X	84.7	18.1
6.4	14.3	X	X	X	98.6	X	86.3	18.4
6.4	15.1	X	X	X	98.2	X	X	19.1
6.4	16.6	X	X	X	98.4	X	X	18.5
6.5	15	X	X	X	98.4	X	X	22.4
6.4	13	X	X	X	98.5	X	X	25.5
6.4	12	X	X	X	98.6	X	X	21.6
6.4	13.1	X	X	X	98.6	X	X	21.6
6.3	14.3	X	X	X	98.4	X	X	22.7
6.3	15.6	X	X	X	98.5	X	88.2	22.4
6.1	16	X	X	X	98.2	X	88.3	23.7
6.1	16.4	X	X	X	98.5	X	88.1	20.9
5.9	16.7	X	X	X	98.6	X	88.9	26.4

	5.5	17.6	X	X	X	98.2	X	88.9	23.7
0	6.7	21.9							35.4
0	6.8	21.9							32.9
0	6.8	22.5							22.7
0.11	6.9	23.6							30.8
1.23	6.9	24.6							32.4
1.22	6.9	25							29.2
1.3	6.9	25.3							31.1
1.2	7	25.3							33.2
1.3	6.9	24.2	No Salt Rejection Requirement for FSV2	No Salt Rejection Requirement for FSV2	No Salt Rejection Requirement for FSV2	No Salt Rejection Requirement for FSV2	No Salt Rejection Requirement for FSV2	No Salt Rejection Requirement for FSV2	27.8
1.8	6.8	23.8							29.6
1.7	6.7	24							28.4
1.8	6.7	24.7							30.9
1.7	6.8	24.4							22.3
1.7	6.7	25.9							34.9
1.7	6.7	26							35.9
1.4	6.8	25.9							30.4
1.2	6.7	25.7							34.7
1.11	6.7	26.9							29.4
1.36	6.6	27.7							26.6
0.76	6.6	28.1							25.8
0.79	6.6	28.4							24.1
0.8	6.8	28.2							24.3
1.1	6.8	28							19.8
1.1	6.7	26.7							24.2
1	6.8	24.6							27.5
1	6.7	24.5							28.7
1.1	6.6	25.7							36.3
1	6.6	26.6							25.9
0.9	6.6	26.3							28.6
1.3	6.6	26.4							25.7
1.3	6.8	28.7	X	80.6	64.3	X	X	X	35.7
1.2	7	27.1	X	X	X	96.3	85.8	X	22
1.3	7	27.8	70.6	X	X	X	X	81.4	22.4
1.6	7.1	27.1	X	85.2	87.3	X	X	X	20.1
1.3	6.9	27.9	X	X	X	96.5	86	X	19.1
1.2	7	19.1	70.6	85.5	X	X	X	82.6	23.5
0.8	6.9	27	X	85.4	87	X	X	X	25.6
1	7	25.6	X	X	X	96.3	85.4	X	25.1
1.2	6.8	25	74	87.6	X	X	X	84.7	23.6
1.4	6.8	23	X	X	88.1	96.4	86.9	X	26.9
1.9	6.9	24.1	77.1	87.4	X	X	X	85	24.4
1.6	7	25.9	X	X	88.1	96.8	87.6	X	27.6
1.9	6.8	26.5	X	87.9	X	96.8	X	83.1	26.9
1.8	6.9	29	X	X	X	96.7	86.8	83.4	30.1
2.2	6.9	28.4	X	85	X	X	X	83.4	28.1
2.5	6.9	28.6	75.3	85.1	X	96.7	X	X	23.8
1.7	6.9	28.6	X	X	X	96.3	86	82.5	22.1
1.3	6.8	28.4	X	86	X	96.7	X	83.9	26.2
1.3	6.8	2.2	X	83	X	96.5	86.1	X	23.6
1.4	7.2	27.1	X	84.2	X	95.8	X	82.1	21.9
1.4	6.9	25.6	X	85.2	88.9	X	86.8	82.8	20.4
1.6	7.6	25.8	X	X	89.2	96.6	X	84.1	20

2.2	6.8	25.3	X	86.9	X	96.8	88.1	X	21.5
1.9	6.7	26.1	X	X	89.4	X	86.4	84.4	22
2.3	6.8	27.6	X	86.5	89	96.6	X	X	25.3
2.1	6.8	26.8	X	X	X	92.5	85	82.2	27
2.2	6.8	26.9	X	83.7	87.8	X	84.5	X	27.7
1.6	6.6	26.6	X	86	X	96.5	X	84	29.8
2.1	6.7	28.2	X	X	89.1	95.9	87.1	X	28.1
1.4	6.8	29	X	86.7	X	X	87.6	83.6	20.5
1.6	6.3	29	X	85.1	89.6	X	X	84	23.3
1.7	6.8	27.2	X	86.7	88.4	X	83.6	X	26.5
1.6	6.7	27.5	X	X	88.7	X	86.4	83	23.9
2	6.6	28.1	X	84.5	X	X	85	82	21.8
2	6.6	28.2	X	85.3	88.8	97.1	X	X	20
1.6	6.7	27.6	X	X	89.3	X	86.6	83.9	22.7
1.6	6.7	26.7	X	85.6	89.1	97.2	X	X	26.1
0.9	6.8	28.5	X	86.6	X	97.4	87.2	CIP	23.3
1.3	6.7	27.2	X	85.3	89.2	97.8	CIP	CIP	21.8
2	6.7	27.7	X	X	88.4	97.2	CIP	77.3	22.2
1.7	6.6	28.1	X	84.7	X	97.1	77.9	X	26.4
1.8	6.7	27.5	X	X	88.4	X	78	77	26.3
1.5	6.8	28.2	X	85.2	X	97.4	X	77.4	25.7
1.9	6.8	28.3	X	85.8	89.4	X	79.4	X	23.7
1.1	6.8	30.3	X	X	X	97.3	79	76.5	26.5
1.4	6.8	29.1	X	83.7	86.3	X	X	75	31.2
2.2	6.7	27.8	X	X	87.4	96.7	X	74.5	28.7
1.6	6.7	29	X	X	84.9	X	76.4	74.2	28
1.8	6.6	29.7	X	CIP	87.3	96	80.6	X	33.1
1.5	6.6	29.4	X	CIP	87.8	96.9	82	81.1	38
1.5	6.6	27.8	X	75.3	88.2	97.1	80	CIP	32.2
1	6.4	27.1	X	79.6	CIP	97.1	80.8	78.6	30.9
1.3	6.6	27.4	X	76	X	97.2	81.5	76.9	33
1.4	6.5	27.9	X	76.1	85.2	X	X	75.9	36.1
1.5	6.5	28.8	X	X	84.8	X	75.2	80.7	31
2.4	6.4	29.5	X	75	84.9	X	80.1	X	32.9
1.2	6.6	28.7	X	76.2	84.9	X	X	78.4	34.2
1.2	6.6	28.9	X	X	X	97.3	80.9	77.8	30.1
0.9	6.7	29	X	77.2	86.5	97.4	X	X	31.3
1.5	6.8	26.3	X	77.8	X	X	82.5	78.7	34
1.5	6.7	26.2	X	X	87	97.4	81.9	X	31.2
1.2	6.6	28	X	75.3	X	96.5	X	75.6	35.7
2.1	6.6	28	X	X	85.3	X	80	76.8	37
1	6.7	28.4	X	76.3	85.5	96.3	X	X	31.8
1.5	6.7	26.3	X	77.2	X	X	80.8	77.5	35
1.4	6.6	24.6	X	77	86.2	X	X	77.9	33.6
1.1	6.4	22.5	X	79.6	87.4	X	82	CIP	33.9
1.4	6.5	23.5	X	78.7	88.1	96.5	X	CIP	31.7
2.2	6.4	26.1	X	X	85.5	95.6	78.2	75.8	34.2
2.6	6.4	26.6	X	77.5	X	96	CIP	76.4	30.7
1.1	6.7	26.4	X	77.9	86.7	CIP	74.7	75.1	32.1
1.5	6.7	26.5	X	77.5	X	92.8	76	76.6	24.8
1.4	6.8	26	X	CIP	CIP	96.1	77.4	77	24.1
1.5	6.8	26.5	X	CIP	CIP	95.5	74.9	74.4	26.4
1.3	6.7	27	X	75.4	84.8	X	75	X	28.7
1.5	6.6	23.6	X	75.1	83.9	95.9	X	X	20.5
1.1	6.7	25.4	X	X	X	96.3	76.5	74.6	20.3

1.5	6.7	25	X	75.7	85.7	X	76.6	X	20.1
1	6.5	25.3	X	76.4	X	96.6	X	75.4	20.3
2	6.7	24.3	X	X	85.3	96.4	77.7	X	21.4
1.7	6.6	25.2	X	75.6	X	X	75.4	73.1	21.8
1.5	6.7	24.9	X	77.1	85.4	96.3	X	X	18.1
1.2	6.5	25.6	X	73.9	X	X	74.4	72.9	21.5
1.4	6.6	25	X	X	85.4	96.1	X	74.1	17.1
1.7	6.7	26.2	89.5	X	85.2	X	X	74.5	20.7
1.4	6.7	25.8	93.4	X	X	94.8	75.2	X	19.9
1.4	6.6	24.3	97.5	97.6	84.8	95.9	X	73.2	18.3
1.2	6.7	22.2	97.7	97.8	X	X	X	75.3	18.3
2.4	6.4	23.5	X	97.8	85.7	X	75.8	X	18.5
1.1	6.8	24.6	97.2	X	X	95.8	X	76.6	18.5
1.4	6.9	25.9	X	97.4	83.3	95.2	X	X	22.6
1.6	6.3	26.1	97.5	97.5	84.8	X	96.7	X	21.6
1.4	6.7	25.6	97	X	X	95.2	96.7	X	15.9
1.3	6.3	24.8	X	97.4	82.9	X	X	71.6	18.4
1.1	6.7	22.5	97.6	X	X	95.2	97.5	X	16.5
0.9	6.6	22.6	X	97	82.3	X	97.4	X	15.5
0.9	6.1	21.8	97.3	97.3	X	95.5	X	X	14.6
1.5	6.6	22.6	98	98	X	X	97.8	X	14.7
1.4	6.6	22.4	97.8	97.9	X	X	97.9	X	14.7
1.9	6.5	23.2	97.8	98.1	96.3	X	97.8	96.8	15.5
1	6.7	23.1	X	X	97.8	X	97.5	97.4	14
1	6.5	23.4	X	X	98	X	98	97.7	14.2
1.2	6.8	22.9	98	97.9	98	96.9	X	X	13.6
1.2	6.7	23.2	97.3	97.8	98	X	X	X	14
1.9	9.8	24	97.6	X	97.9	X	97.8	97.4	14.7
1.2	6.8	22.8	X	97.7	97.9	X	X	97.4	15.1
1.7	6.7	23.7	97.7	97.7	97.9	X	X	X	15.5
1.6	6.5	23.9	97.7	97.6	X	X	97.6	97.4	14.4
1.1	6.6	23.7	97.4	X	X	X	97.6	95.9	16.1
1.2	6.6	23.7	X	97.7	97.9	X	97.9	X	15.7
0.8	6.6	23.9	97.6	97.8	98	X	X	97.5	11.3
1.1	6.7	23.1	97.9	X	97.1	X	98	X	13
1.2	6.8	22.4	X	97.6	97.9	X	X	97.7	13.1
1.4	6.7	22	97.7	X	X	X	98	97.8	12.6
1	6.6	21.2	98	98	98.2	X	X	X	14.4
1.6	6.5	19.6	X	98	X	X	98.1	97.8	13.7
1	6.7	19.6	98.2	X	98.3	X	98.2	X	13.9
1.2	6.6	20.9	98	98	X	X	X	97.8	14.3
1.3	6.6	20.6	X	97.9	98.2	X	97.9	X	16.7
1.5	6.6	19.3	X	X	98.3	X	98.1	97.9	15.9
1.4	6.7	20.4	98.1	98	98.3	X	X	X	14.9
1.8	6.6	19.7	98	X	X	CIP	98.2	97.9	16.5
2.9	6.7	19.7	X	98	98.3	CIP	98.3	X	18.3
2.1	6.7	19.8	98.1	X	98.3	CIP	X	98	18.4
2	6.7	21.1	X	98	X	CIP	98.1	97.9	19.5
2.7	6.6	18.7	98.1	X	98.3	CIP	98.2	X	20.8
1.7	6.6	16.2	98.3	98.3	X	CIP	X	98.2	20.9
2.6	6.7	16.9	98.3	X	98.5	X	98.4	98.3	20.6
2	6.8	16.7	98.5	98.4	98.6	97.5	X	X	21.3
2.5	6.6	17.9	98.4	X	X	X	98.4	98.4	23.6
2.3	6.8	16.7	X	98.3	98.6	97.5	X	X	21.9
2.3	6.7	16.5	98.4	X	X	X	98.5	98.4	23

2.2	6.6	16.3	X	98.5	98.6	97.5	X	X	21.1
2	6.9	18.6	98.4	X	X	X	98.4	98.3	23.9
1.7	6.9	18.8	X	98.4	98.5	97.4	X	X	23.1
1.9	6.9	19.8	98.3	X	X	X	98.4	98.3	20.2
2	6.9	19.4	X	98.2	98.5	97.4	X	X	18.3
2.5	6.7	19.2	98.2	X	X	X	98.4	98.3	17.7
3.7	6.8	17.8	X	98.2	98.3	97.3	X	X	18.9
2.1	6.8	17.9	98.2	X	X	X	98.4	98.1	16
2.4	6.9	18.5	X	98.4	98.5	97.6	X	X	14.3
1.8	6.9	18.4	98.4	X	X	X	98.5	98.3	14.3
2.3	6.8	18.7	X	98.4	98.6	97.5	X	X	14.7
2.9	7	19.6	98.4	X	X	X	98.5	98.4	15.2
1.8	6.9	19.7	X	98.2	98.6	97.3	X	X	15.9
2.1	6.8	16.7	98.3	X	X	X	98.3	98.2	16.1
2	6.6	16.7	X	98.4	98.5	97.5	X	X	16.6
2.2	6.7	17.8	98.5	X	X	X	98.5	98.4	16.9
2.2	6.7	18.7	X	98.4	98.7	97.3	X	X	16.6
2.6	6.8	19.8	98.5	X	X	X	98.6	98.4	15.6
2.3	6.7	19.6	X	98.6	98.6	97.6	X	X	15.1
2.3	6.6	19.1	98.4	X	X	X	98.6	98.4	15.3
2.9	6.6	19.1	X	98.5	98.6	X	X	98.4	16.5
2.7	6.7	18.7	98.4	X	X	97.6	98.5	X	15.1
2.2	6.9	19.4	X	98.6	98.7	X	X	98.5	14
2.5	6.8	20	98.4	X	X	97.3	98.5	X	14.1
2.3	6.9	19.7	X	98.6	98.6	X	X	98.4	14.4
2	6.8	20.2	98.5	X	X	97.6	98.6	X	16.1
2	6.8	20.1	X	98.5	98.7	X	X	98.3	16.8
2.5	6.8	18.7	98.2	98.5	X	97.5	X	X	16.8
2.1	6.9	18.9	98.4	98.7	98.6	X	X	98.4	17.2
2.1	6.9	18.2	98.5	X	98.8	97.9	X	X	16
2.2	6.9	17.4	X	98.7	X	X	98.4	98.5	17.2
2.3	7	18.1	98.6	X	98.6	97.7	X	X	15.4
2	6.9	18.1	X	98.7	X	CIP	98.7	98.4	15.4
2.3	7	16	98.6	98.8	98.7	CIP	X	X	15.7
2.2	6.9	18.3	98	X	98.7	CIP	98.6	98.5	22.7
1.9	6.8	17	98.5	98.7	X	X	X	98.5	17.6
2.5	6.9	17.7	98.6	X	X	X	98.7	98.6	18.2
2.3	6.8	17.1	98.6	98.8	98.8	X	X	X	18.3
2	6.9	18.1	98.5	X	X	X	98.7	98.5	17.4
2.2	6.8	17	X	X	98.8	X	98.8	98.6	17.7
3.3	6.6	16.4	98.5	X	X	X	98.7	98.6	19
1.7	6.6	17.8	X	98.7	98.7	X	X	X	26.5
2	6.7	15.9	98.6	98.6	98.7	X	98.6	98.6	26.1
2.1	6.7	12.6	98.7	X	98.8	X	98.9	98.7	29
2	6.6	14.1	98.7	98.8	98.8	X	98.8	X	30.8
2.3	6.7	13.7	98.8	X	X	98.1	CIP	98.1	32.7
4	6.6	14.7	98.7	X	X	98	CIP	CIP	40.1
3.1	6.7	13.9	X	X	X	98.1	98.5	CIP	43.2
2.9	6.7	14.3	98.7	X	X	X	X	98.3	45.9
2.5	6.8	14.5	X	X	X	97.9	98.4	X	49.6
2.1	6.7	12.4	98.7	X	X	X	X	98.3	55.6
1.3	6.7	15.6	X	X	X	98.2	98.6	X	58.3
2	6.9	13.3	98.9	X	X	X	X	98.4	60.6
3.1	6.9	13.6	X	X	X	98.1	98.6	X	61.4
1.9	6.8	13.8	98.8	X	X	X	X	98.5	63

2.5	6.8	13.9	X	X	X	98.2	98.4	X	42.7
2.1	6.9	12.9	98.7	X	X	X	X	98.4	57.4
1.9	6.8	13.4	X	X	CIP	98.3	98.5	X	58
3.9	6.7	14.2	98.7	X	CIP	X	X	98.3	68.8
1.6	6.7	14.9	X	X	X	98	98.6	X	85.4
2.2	6.8	15.2	X	X	98.8	X	X	98.3	58.6
1.8	6.9	15.6	X	X	X	98	98.4	X	56.9
2.9	6.7	17.6	X	98.5	98.4	X	X	X	55.3
2.4	6.8	16.9	98.5	CIP	X	97.9	X	X	52.2
2.7	6.9	16.9	98.9	CIP	98.2	X	X	X	46.8
2.4	7	15.4	CIP	98.6	X	98.1	X	98.1	45.1
2.5	6.9	15.8	CIP	98.8	98.7	X	98.6	X	34.2
2.9	6.9	16.7	97.8	X	X	97.8	X	98.1	31.8
3.2	7.1	15.5	X	X	98.6	X	X	97.9	31.4
1.6	7	17.1	X	98.7	98.7	X	X	98.2	30.6
2.4	7	18.3	97.8	X	X	98	98.3	X	28.1
2.6	6.9	18.7	X	98.6	98.7	X	X	98.1	26.1
2.4	7	18.4	97.8	X	X	97.7	98.1	X	27.6
3.4	6.7	17.2	X	98.6	98.6	X	X	98.1	27.3
2.1	7	16.9	97.9	X	X	97.9	98.4	X	27.8
2.4	6.9	16.6	X	98.6	98.6	X	X	98	27.8
2.3	6.9	14.9	98	X	X	98.1	98.4	X	31
2.6	6.9	15.9	X	98.4	98.7	X	X	98.1	29
2.8	6.9	15.4	98.1	X	X	98.1	98.5	X	30.2
2.7	6.8	14.8	X	98.7	98.7	CIP	X	98.2	31.1
2.6	6.8	15.6	98.2	X	98.7	CIP	98.6	X	34.6
3.4	6.9	16.5	X	98.6	X	97.5	X	98.1	34.2
2.5	6.8	18.2	98	X	98.7	X	98.4	X	34.7
2	6.7	18.7	X	98.4	X	97.7	X	97.9	35.5
2.4	6.6	18.8	X	X	X	97.6	98.1	97.8	33.5
2.2	6.6	18.1	X	98.5	98.6	X	98.3	X	32.4
1.9	6.7	17.8	97.9	X	X	97.6	X	98.1	32.8
1.7	6.6	17.5	X	98.4	98.6	X	98.5	X	31.2
1.8	6.7	19.4	97.9	X	X	97.9	X	98.1	27.8
1.6	6.7	17.9	98	98.5	98.6	X	X	X	25.8
2.4	6.7	16	X	X	X	97.7	98.5	98.1	25.8
3	6.5	15.9	98.1	98.7	98.6	X	X	X	24.2
2	6.7	16.2	X	X	X	97.9	98.5	98.1	21.3
2.7	6.7	16.4	98.2	98.7	98.7	X	X	X	20.7
1.9	6.7	17.7	X	X	X	97.9	98.5	98.1	19.9
1.9	6.6	17.5	98	98.6	98.7	X	X	X	21.3
2.5	6.7	16.7	X	X	X	97.7	98.3	98.1	20.3
2.6	6.7	13.1	98.2	98.7	98.8	X	X	X	20.9
2.7	6.6	11.7	X	X	X	98.3	98.5	98.2	17.7
1.9	6.6	15.6	98.2	98.8	98.7	X	X	X	15.4
1.9	6.8	15.2	X	X	X	98	98.5	97.9	14.5
1.4	6.6	15	98.2	98.8	98.8	X	X	X	14.2
2.2	6.7	12.5	X	X	X	98.3	98.7	98.5	10.7
2.9	6.9	15.6	98.4	98.8	98.7	X	X	X	11.5
2.8	6.8	15.1	X	X	X	98.2	98.5	98.3	9.7
3.4	6.7	15.4	98.4	98.7	98.8	X	X	X	10.1
2.6	6.8	15.2	X	X	X	97.9	98.6	98.4	8.8
2.5	6.9	13	98.4	98.9	98.8	X	X	X	9
3.4	7	15.4	X	X	X	98.1	98.3	98	11
2.3	7	16	98.3	98.8	98.8	X	X	X	17.8

6.7	6.9	16.7	X	X	X	98	98.7	98.3	19.2
2.5	6.9	16.9	98.2	98.8	98.9	X	X	X	19.7
2.5	6.9	17.8	98.1	X	X	97.9	98.6	98.3	20.4
1.9	6.9	17.9	98.3	98.7	98.7	CIP	X	X	22.1
1.9	7	19	98.1	X	X	97	98.4	98.1	21.8
2.2	7.1	18.4	97.9	98.6	98.6	X	X	X	22.4
2.2	7.1	19.3	X	X	X	97.5	98.3	98	26.6
2.6	7.1	18.8	97.9	98.5	98.5	X	X	X	27.6
2.6	7	19.8	X	X	98.3	97.3	98.2	97.7	29.4
2.9	7	19.7	97.6	98.5	98.4	X	X	CIP	30.6
2.4	7	19.3	97.7	X	X	97.3	98.2	CIP	31.8
2.5	7.1	19.3	X	X	98.4	97.3	X	97.7	35

2.8	7	17.5	X	98.5	X	97.5	98.3	97.9	33.2
2.4	7.2	18.5	98.1	98.5	98.4	X	X	X	32.5
2.2	7	19.4	97.8	X	X	97.4	98.2	97.8	33.1
2.2	7.2	19.9	97.9	98.5	98.5	X	CIP	X	31.3
2.4	7.1	20.6	97.9	X	98.4	97.3	CIP	X	34.8
1.9	7	17.3	X	X	X	97.4	98.2	97.9	37.9
1.8	7.1	18.3	97.9	98.5	98.6	X	X	X	35.6
2.4	7.1	19.5	X	X	X	97.3	98.1	97.7	35.7
2	7.1	20.5	97.8	98.4	98.4	X	X	X	38.5
2.1	6.6	19.9	X	X	98.3	X	97.9	97.3	41.7
1.9	6.9	21.3	97.1	98.2	98.4	X	X	X	41.6
1.5	7	21.2	97.8	X	98.4	CIP	98	X	38.2
1.4	7.1	22.3	97.7	98.4	X	CIP	97.9	97.6	44.5
1.7	7	21	X	X	X	97.1	98	97.6	42.2
1.7	7.1	19.7	97.6	98.3	X	97.1	X	X	37.6
1.4	7	18.5	97.6	98.3	98.1	X	X	X	35.1
1.7	7	19.1	X	X	X	97.1	97.7	97.4	37.6
2.1	6.8	22.1	97.3	98	98	X	X	X	41.7
1.8	7.1	22.4	X	X	X	96.9	97.7	97.3	37.6
2	7	22.3	97.6	98.2	98.1	X	X	X	38.5
1.3	7	19.4	X	X	X	97.5	97.7	97.1	38.5
1.8	7	20.3	97.5	98.1	98	X	X	X	35.7
2.2	7.2	21.9	X	X	X	96.9	97.8	97.3	36.5
1.5	7	20.5	97.2	X	98	X	97.7	X	37.7
1.9	7	18.8	X	98.1	X	97.1	97.7	97.4	36.5
1.8	7	19.6	X	CIP	X	97.4	98.1	97.6	39.5
1.7	7	21.2	X	CIP	98	97.1	97.9	X	40.6
1.5	7.1	21.3	X	97.8	X	X	X	97.2	41.1
2	7.1	20.9	X	X	X	97	97.8	97.3	33.8
1.3	7.2	19.3	X	97.7	98	X	X	X	36.9
1.7	7.1	19.3	X	97.9	98.1	97	97.6	X	36.2
1.6	7	20.4	X	97.8	X	X	97.7	97.4	37.9
1.4	7	20.8	97.6	98	97.8	X	X	X	32
1.6	7	20.8	X	X	X	97.3	97.9	97.4	33.8
1.6	7.1	20.8	97.5	98.1	98.1	X	X	X	30.2
1.9	7.1	21.4	X	X	X	97.2	97.8	97.5	29.4
1.5	7.2	21.8	97.5	98	98	X	X	X	31.6
2	7.1	19.7	X	X	X	97	97.9	97.2	31
1.2	7	19.4	97.7	98.1	98.2	X	X	X	28.8
2.4	7.2	18.1	97.5	X	X	97.6	98	97.6	29.8
1.3	7.2	21.3	97.7	98.2	97.9	CIP	X	X	33.3
1.8	7.1	22.2	X	X	98.2	X	97.9	97.5	32.3

1.7	7.3	23	97.5	98.1	98.1	X	X	X	29.8
1.6	7.2	22.9	X	X	X	96.8	97.8	97.2	28.9
1.3	7.1	22.8	97.2	97.9	97.7	X	X	X	28
1.3	7	21.8	X	X	X	96.4	97.5	96.8	26.6
1.9	7	23.1	97.5	98	97.9	X	X	CIP	27.9
2.7	7.2	21.6	X	98.2	98.2	97	X	CIP	30.8
2.1	7.3	21.8	97.9	X	X	97.3	X	96.1	29.8
1.7	7.3	21.9	X	98.4	98	97.2	X	X	26.5
2.1	7.5	22.3	98	98.4	98.4	X	X	X	35.4
1.9	7.4	19.9	98	98.5	X	97.4	X	X	37.4
1.9	7.4	20.8	X	98.7	X	97.1	X	96.5	31
2.5	7.4	21	98	X	X	97.5	CIP	96.6	23.9
2.1	7.4	22.6	98	X	CIP	96.9	CIP	96.8	37.4
1.9	7.5	23.2	97.2	CIP	CIP	X	96.6	95.8	43.5
2	7.3	23.1	97.5	CIP	97.8	96.5	96.8	X	36.1
2.6	7.4	22.9	97.5	97.8	X	CIP	X	96.5	40.3
2	7.3	22.5	X	97.9	97.7	CIP	97	X	46.3
2.5	7.4	22.8	97.8	X	97.7	X	X	96.2	42.1
1.6	7.3	21.4	97.5	97.7	97.8	X	X	X	33.9
1.4	7.5	20.9	X	X	X	97	96.8	96.6	31.3
1.4	7.3	20.3	97.9	98.1	98	X	X	X	41.8
1.3	7.4	21	X	X	X	97.1	97.3	96.5	39.9
1.4	7.6	21	97.9	98.1	98.3	X	X	X	43

95
106
110
119
125
136
144

1.62	8.6	24.2	97.8	98	97.9	X	X	X	143.5
1.7	7.5	23.8	X	X	X	96.6	97.3	93.9	95.9
2.3	7.5	23.7	97.7	97.9	97.8	X	X	X	99
2.5	7.5	24	X	X	X	96.7	97	96.3	98.7
2.5	7.5	24.4	97.3	97.7	97.6	X	X	X	89.7
2.5	7.5	24.8	X	X	X	96.1	96.8	96	99
2.4	7.5	24.6	97.1	X	97	X	X	95.8	97
2	7.5	23.9	X	X	97.6	95.9	96.6	X	99
1.8	7.4	26.3	97.2	97.5	X	X	X	95.8	65.6
2.4	7.4	26.5	X	X	X	96.3	96.7	95.8	97.9
2.4	7.5	26.2	97.5	97.9	97.7	X	X	X	98.6
2.4	7.4	25.4	X	X	X	95.5	96.2	95.4	101
2	7.4	24.2	96.7	97.2	97.1	95.7	X	X	94.6
1.8	7.3	23.9	X	X	97.2	X	96.7	96.2	95.3
2.2	7.3	23.7	X	97.4	X	CIP	96.9	96.2	102
2.4	7.4	24.9	CIP	97.9	97.8	CIP	97.2	X	98
1.8	7.3	24.1	CIP	X	X	96.2	97.2	96.5	95
1.7	7.5	25	97.5	98	98.2	95.7	X	X	93
1.6	7.5	24.9	97.3	97.9	CIP	X	X	95.2	98
2.2	7.6	26.1	X	X	CIP	95.2	97.2	96.5	94
2.6	7.6	25.9	97.3	97.9	97.8	X	X	X	96
2.7	7.5	25.3	X	X	X	95.9	96.5	96.6	97
2.6	7.5	26.5	97.1	97.8	97.3	X	X	X	95
1.8	7.5	26.8	96.7	X	X	95.4	96.7	95.6	92
2.4	7.4	27.2	96.9	97.5	97.3	X	CIP	X	95

2.5	7.6	26	96.7	97.4	X	94.5	96	X	99
1.9	7.5	26.8	X	97.4	97.4	CIP	96.6	X	88
2.1	7.6	26	X	X	X	CIP	96.4	96.1	105
1.7	7.4	26.5	96.8	X	X	95.8	X	X	109
2	7.3	27.9	X	X	X	X	96.2	95.3	107
1.6	7.4	28.4	96.3	96.9	X	X	X	X	114
1.8	7.3	28.3	X	X	X	X	96.9	95.5	115
2.3	7.3	27.2	97.2	X	97.4	X	X	X	107
2.1	7.2	27.2	X	X	X	95.8	97	96.1	107
2.5	7.4	25.9	X	96.9	97.1	X	X	X	101
1.9	7.4	27.3	97	X	X	X	96.7	X	96
1.7	7.4	26.1	X	X	97.3	X	X	96.1	94
1.3	7.3	24.8	X	97.5	X	X	97	X	93
1.9	7.4	26.2	97.4	X	97.6	X	X	X	95
1.6	7.6	25.2	X	X	X	X	97.1	96.3	90
1.8	7.4	25.9	97.4	97.6	X	X	X	X	89
1.6	7.4	26.2	X	X	X	X	96.9	95.5	57
1.7	7.5	27.6	96.9	X	97.4	X	X	X	92
1.8	7.5	27.6	X	97.3	X	X	96.8	X	84
1.5	7.3	27.3	X	X	96.9	X	X	96.3	83
1.5	7.4	28.3	96.9	97.3	X	X	X	X	82
1.4	7.4	27.4	X	X	X	94.3	96.5	X	81
1.4	7.5	29	X	X	97.1	X	X	95.6	78
1.4	7.3	28	X	X	X	93.8	96.7	X	74
1.4	7.5	26.1	96.7	X	97.1	X	X	X	77
0.8	7.2	30.7	X	98.6	X	97.2	X	X	75

r Box	2010 Settled Water		2010 Filtrate					2010 Combined Filtrate		
	3	6	6	96	96	96	96	96	3	3
Alk (ppm)	Turbidity (NTU)	pH	Filter 1 NTU	Filter 2 NTU	Filter 3 NTU	Filter 4 NTU	Filter 5 NTU	Total Cl2 (ppm)	pH	Temp
200	0.92	8.9	0.078	0.075	0.069	X	X	Data was provided by online analyzer, data was not used due to unreliable readings	8.9	Data was provided by online analyzer, data was not used due to unreliable readings
200	1.08	8.8	0.078	0.082	0.073	X	X		8.8	
200	1.1	8.5	X	0.064	0.062	X	X		8.5	
200	1.6	9	X	0.052	0.051	X	X		9	
215	0.92	8.9	0.064	0.053	0.051	X	X		8.9	
210	1.12	8.9	0.060	0.052	0.056	X	X		8.9	
217	1.7	8.9	0.074	X	0.068	X	X		8.9	
209	1.1	9.1	0.069	X	0.065	X	X		9.1	
206	1.4	8.7	0.071	0.073	0.064	X	X		8.7	
208	1.5	8.9	0.079	0.073	0.065	X	X		8.9	
214	1.1	8.9	0.086	0.074	X	X	X		8.9	
209	1.1	9	0.086	0.078	0.103	X	X		9	
212	1.2	9	0.096	0.087	0.103	X	X		9	
225	0.74	8.9	0.088	0.091	0.091	X	X		8.9	
219	0.53	8.7	X	0.105	0.080	X	X		8.7	
217	0.51	8.8	X	0.113	0.083	X	X		8.8	
212	0.9	9.1	0.079	0.108	0.087	X	X		9.1	
215	0.71	8.9	0.094	0.080	0.088	X	X		8.9	
211	0.56	9	0.091	X	0.096	X	X		9	
214	0.69	9.1	0.084	X	0.085	X	X		9.1	
225	0.59	8.8	0.071	0.137	0.075	X	X		8.8	
247	2.3	8.9	0.110	0.080	0.068	X	X		8.9	
214	1.7	9.1	0.087	0.066	X	X	X		9.1	
214	1.6	8.9	0.085	0.103	X	X	X		8.9	
210	1.5	9	0.086	0.105	0.157	X	X		9	
216	1.5	8.9	0.082	X	0.094	X	X		8.9	
224	1.9	9	0.072	0.109	0.091	X	X		9	
215	3.6	8.9	X	0.065	0.053	X	X		8.9	
213	4.5	9	X	0.061	0.050	X	X		9	
220	3.4	9	0.060	0.057	0.047	X	X		9	
218	3.8	9.9	0.061	0.057	0.070	X	X	9		
215	2.6	8.9	0.061	X	0.080	X	X	8.9		
216	1.1	9	0.064	X	0.083	X	X	9		
213	1.1	9	0.061	0.061	0.073	X	X	9		
217	2.3	8.9	0.068	0.073	0.079	X	X	8.9		
223	2.3	8.8	0.083	0.087	X	X	X	8.8		
215	1.9	8.8	0.095	0.092	X	X	X	8.8		
222	2.1	9	0.082	0.089	0.110	X	X	9		
217	1.4	9	0.077	0.109	0.106	X	X	9		
215	1	9.1	X	0.110	0.116	X	X	9.1		
107	1.2	8.9	X	0.102	0.112	X	X	9		
215	1.7	9	0.108	0.101	0.115	X	X	8.9		
215	1.6	9.1	0.110	0.091	0.136	X	X	9.1		

Data was provided by online analyzer, data was not used due to unreliable readings

Data was provided by online analyzer, data was not used due to unreliable readings

215	1	9.1	0.096	X	0.142	X	X		9.1	
130	3.6	TCEQ requested testing on 5/21	0.039	0.046	X	X	X	3.7	8.5	21.1
125	2.6		0.038	0.046	X	X	X	3.6	9.1	21
127	1.24		0.036	0.043	0.135	X	0.128	3.6	8.8	21.7
130	0.92		X	X	0.055	X	0.041	2.4	8.8	22.7
132	1.7		X	X	0.052	X	0.043	2	8.9	23
124	2		X	X	0.047	X	0.037	3.2	8.9	22.9
124	2		X	X	0.046	X	0.038	3.3	8.9	23.1
119	2.1		0.053	X	0.044	0.058	0.037	3.4	8.7	23.7
124	2.9		0.042	X	X	0.053	X	3.4	8.8	23.6
125	3.2		0.044	X	X	0.052	X	3.4	8.9	23.3
119	2.2	9.8	0.036	X	X	0.048	X	3.6	8.9	23.8
123	2.4	9.8	0.035	0.057	0.049	0.045	X	2.9	8.8	23.2
125	3.4	9.7	X	0.046	0.045	X	X	3.4	8.8	23.1
126	1.4	9.8	X	0.053	0.054	X	X	3.1	8.8	23.9
124	1.6	9.9	X	0.046	0.046	X	X	3.3	9	24.3
120	1.6	10.1	X	0.034	0.034	0.052	0.044	3	9.2	24.8
120	2.8	9.9	X	X	X	0.051	0.038	3.4	9.2	25
122	2.6	9.7	X	X	X	0.051	0.040	2.8	9.2	25.6
115	2.5	9.8	X	X	X	0.045	0.035	2.5	9.2	25.7
112	3.1	9.8	0.058	0.063	X	0.043	0.034	2.7	9.2	25.9
114	3.3	9.8	0.043	0.046	X	X	X	3.1	9.2	27.2
116	2.9	9.6	0.043	0.046	X	X	X	3.1	9.3	26.7
107	3	9.7	0.040	0.043	X	X	X	3.5	9.2	25.8
116	5	9.5	0.042	0.045	0.088	0.079	X	3.2	9.2	26.7
117	3.2	9.4	X	X	0.062	0.066	X	3.2	9.2	24.9
115	3.2	9.6	X	X	0.067	0.067	X	3.3	9.3	23.8
109	4	9.7	X	X	0.063	0.062	X	3.4	9.2	25
114	8.3	9.5	X	X	0.056	0.056	X	3.2	9.3	25.3
116	3.1	9.4	0.063	X	0.054	0.054	0.071	3.1	9.1	26.1
118	4.1	9.4	0.055	X	X	X	0.054	3	9.2	25.6
105	6.9	8.8	0.052	0.055	0.080	X	X	2.7	8.7	26.7
110	4.9	9.3	0.047	0.050	0.056	0.063	X	3.2	9.2	27.1
109	3.4	9.2	0.040	0.043	0.046	0.048	X	3.4	9.2	27.1
108	3.3	9.1	0.038	0.040	0.043	0.044	0.103	3.7	9	27.6
107	3.2	9.3	0.050	0.052	0.041	0.042	0.047	3.6	9.3	28.2
110	3.7	9.2	0.044	0.048	0.067	0.041	0.042	35	9.1	27.9
111	3.8	9.1	0.042	0.045	0.055	X	0.037	3.5	9.1	25
108	3.8	9.2	0.037	0.039	0.044	0.069	0.033	3.4	9.1	25.1
104	3.6	9.3	0.050	0.039	0.043	0.051	0.054	3	9.2	25.2
101	3.7	9.2	0.043	0.051	0.042	0.046	0.038	3.2	98	25
103	2.8	9.3	0.035	0.040	X	0.040	0.032	3.3	9.2	24.1
95	3.8	9.2	0.034	0.037	0.085	0.040	0.031	3.1	9.2	25.1
102	3.3	9.1	0.035	0.035	0.046	0.057	0.039	2.6	9.1	26.8
104	2.5	8.9	0.072	0.037	0.043	0.050	0.043	2.4	9	27.4
106	1.6	8.9	0.048	X	0.043	0.049	0.039	2.6	8.8	27.1
141	2.4	9	0.045	0.071	0.043	0.048	0.038	3.3	8.9	28.5
103	1.7	8.9	0.045	0.062	0.069	0.054	0.039	3.5	8.9	28.3
99	2.1	9.1	0.041	0.047	0.054	0.063	0.055	3.2	9	28.2
99	1.2	9.2	X	0.043	0.049	0.054	0.045	3.9	9.1	29.1
98	1	9.1	0.063	0.059	0.062	0.065	0.040	3.6	9	28.2
96	1	9.2	0.044	0.046	0.050	0.054	0.035	4	9.1	26.8
93	1.3	9.2	0.040	0.041	0.045	0.049	0.042	3.4	9.1	26

101	1.3	9.2	0.039	0.040	0.044	0.048	0.043	2.7	9.2	25.7
94	1.2	9.2	0.051	0.050	0.053	0.056	0.038	3.3	9.1	26.6
96	1.9	9.1	0.051	0.051	0.056	0.061	0.039	3.5	9.1	26.3
89	0.8	9.1	0.051	0.050	0.055	0.059	0.045	3.9	9.2	26.7
97	1.5	9.1	0.053	0.052	0.058	0.062	0.061	4	9.1	26.7
94	1.6	9.2	0.068	0.067	0.063	0.074	0.052	3.3	9.2	26.5
96	1.5	9.2	0.062	0.058	0.068	0.077	0.053	2.8	9.1	28.4
98	1.3	9.3	0.059	0.056	0.065	0.071	0.053	3.1	9.3	28.3
96	2.8	9.3	0.078	0.072	0.065	0.070	0.073	3.5	8.7	28.9
89	2.3	9.2	0.065	0.065	0.082	0.069	0.057	3.7	9.3	27.1
97	1.4	9.2	0.056	0.055	0.068	0.077	0.050	3.9	9.3	28.3
96	2.5	9.3	0.072	0.073	0.063	0.068	0.056	3.9	9.3	28.1
93	2.4	9.2	0.074	0.067	0.087	0.095	0.083	3.7	9.2	27.9
90	2.3	9.3	0.058	0.075	0.067	0.070	0.059	3.7	9.3	28
96	2.4	9.3	0.078	0.065	0.070	0.079	0.064	3.5	9.1	27
93	3.3	9.3	0.071	0.083	0.081	0.084	0.080	3.4	9.1	28.8
85	2.6	9.4	0.086	0.088	0.090	0.092	0.068	3.4	9.2	27
89	3.3	9.4	0.050	0.053	0.057	0.060	0.061	3.9	9.1	27.7
93	3.7	9.4	0.058	0.047	0.052	0.065	0.043	3.8	9.2	28
88	3.9	9.4	0.049	0.042	0.066	0.064	0.052	3.6	9.2	27.8
85	4.4	9.5	0.053	0.044	0.052	0.056	0.055	3.3	9.2	27.5
95	3.7	9.4	0.053	0.043	0.060	0.066	0.045	3.4	9.2	28.3
94	2.2	9.3	0.050	0.040	0.066	0.067	0.059	3.6	9.2	27.9
98	1.9	9.2	0.079	0.065	0.066	0.069	0.075	3.6	9.2	27.8
98	1.5	9.2	0.069	0.058	0.081	0.093	0.064	3.9	9.1	27.4
99	1.6	9.1	0.074	0.063	0.088	0.081	0.077	3.8	9.1	28.3
95	1.3	9.2	0.086	0.077	0.072	0.087	0.078	3.8	9.1	28.7
94	0.9	9.2	0.082	0.077	0.092	0.083	0.085	3.7	9.2	28.5
96	1.2	9.2	0.088	0.070	0.093	0.099	0.080	3.9	9.2	27.4
97	0.9	9.1	0.079	0.061	0.077	0.095	0.074	4	9	26.6
97	0.8	9.1	0.077	0.071	0.084	0.088	0.079	4.1	9	26
92	1.3	9.1	0.087	0.065	0.081	0.076	0.083	4.2	9	28.2
95	1.1	9.2	0.069	0.058	0.069	0.088	0.067	3.8	9	28.7
90	0.94	9.1	0.081	0.075	0.090	0.081	0.076	3.8	9.1	28
87	0.85	9.3	0.072	0.061	0.075	0.073	0.075	3.8	9.1	27.4
97	0.88	9.3	0.071	0.072	0.077	0.082	0.072	3.5	9.2	27.8
99	0.97	9.1	0.096	0.105	0.107	0.108	0.097	2.9	9.1	27
95	1	9.3	0.073	0.075	0.079	0.083	0.072	4.4	9.1	24.8
95	1	9.2	0.098	0.094	0.099	0.095	0.096	4.6	9	25.2
99	1.1	9.1	0.102	0.106	0.109	0.111	0.102	3.9	9	26.1
95	1.5	9.2	0.087	0.092	0.097	0.102	0.091	3.5	9	27.5
99	1.2	9.2	0.099	0.106	0.114	0.116	0.100	3.7	9	26.7
102	1.3	9.2	0.122	0.127	0.131	0.125	0.095	4.6	9	25.5
102	1.3	9.2	0.113	0.122	0.118	0.123	0.097	4.5	9	24.3
103	1.2	9.3	0.119	0.109	0.132	0.147	0.115	3.9	8.9	21.2
102	1.7	9.2	0.120	0.128	0.130	0.107	0.095	3.4	9	22.6
103	1.5	9.1	0.095	0.099	0.115	0.138	0.105	3.7	9	24.2
101	1.2	9.2	0.082	0.089	0.090	0.095	0.073	3.5	9.1	24.3
98	1.1	9.2	0.081	0.086	0.112	0.108	0.088	3.9	9.1	24.9
102	0.88	9.1	0.088	0.093	0.104	0.093	0.080	4.5	9.1	25.6
101	0.84	9.1	0.074	0.079	0.088	0.097	0.077	4.1	9.1	24.8
102	1	9.1	0.065	0.068	0.076	0.087	0.062	4.1	9.2	25.5
106	1.2	9	0.062	0.065	0.071	0.077	0.057	3.6	9	26.4
102	1.2	9.2	0.091	0.080	0.094	0.077	0.071	3.8	9.2	25.6
96	1.3	9.2	0.072	0.076	0.081	0.083	0.072	2.5	9.2	23.5

99	1.5	9.1	0.064	0.069	0.076	0.088	0.062	3.9	9.2	30
102	1.3	9.1	0.059	0.063	0.069	0.076	0.055	3.6	9.1	24
107	1.3	9.1	0.082	0.077	0.073	0.072	0.052	3.9	9.2	24.3
105	1.2	9.1	0.073	0.082	0.097	0.093	0.080	4.5	9.1	24.1
106	1.2	9.1	0.061	0.066	0.073	0.084	0.060	3.8	9.1	24.5
103	1.1	9	0.058	0.061	0.068	0.075	0.054	3.8	9.1	24.8
100	1.1	9	0.071	0.069	0.064	0.069	0.051	3.4	9.1	24.4
103	1.1	9.2	0.070	0.078	0.086	0.079	0.070	4	9.2	25
102	1.1	9.2	0.062	0.066	0.073	0.085	0.061	3.7	9.2	24.4
103	0.99	9.2	0.057	0.060	0.066	0.072	0.053	3.2	9.2	23.1
100	0.79	9.2	0.079	0.063	0.069	0.075	0.058	3.5	9.1	22.8
102	1.2	9.2	0.076	0.102	0.103	0.079	0.084	3.6	9	18.1
102	1	9.2	0.073	0.080	0.086	0.109	0.077	4.4	9.1	23.3
104	0.98	9.1	0.075	0.083	0.087	0.096	0.076	3.8	9.1	23.5
102	1.1	9	0.077	0.079	0.083	0.089	0.071	3.6	9	27.3
102	1.1	9	0.098	0.102	0.101	0.078	0.086	3.6	9	24.2
104	1.29	9.1	0.072	0.081	0.086	0.098	0.075	3.9	9.1	23.2
99	0.98	9.2	0.065	0.071	0.075	0.083	0.063	4.3	9.1	21.3
104	1.01	9.1	0.065	0.063	0.066	0.071	0.054	4.1	8.9	21.7
105	0.83	9.2	0.085	0.088	0.081	0.068	0.071	3.9	8.9	20.6
102	0.76	9.1	0.066	0.074	0.078	0.099	0.068	3.9	8.9	19.9
104	1.01	9.2	0.058	0.063	0.064	0.074	0.055	3.8	8.8	21.3
101	1.7	9.1	0.056	0.059	0.080	0.069	0.051	3.6	8.9	20.6
104	0.99	9.1	0.089	0.084	0.082	0.071	0.061	3.7	8.9	20.9
102	0.62	9.2	0.075	0.084	0.073	0.098	0.079	3.5	8.9	21.4
102	1.07	9.2	0.069	0.075	0.069	0.089	0.066	9.8	8.9	21.3
103	0.94	9.2	0.070	0.068	0.083	0.079	0.060	3.6	8.9	21.3
105	0.75	9.2	0.094	0.081	0.085	0.075	0.055	3.6	9	20.9
106	0.66	9.2	0.076	0.087	0.076	0.089	0.087	3.5	9	21.6
106	0.8	9.1	0.064	0.069	0.065	0.087	0.059	3.9	9	22.2
96	0.77	9.1	0.059	0.061	0.070	0.074	0.051	3.5	9.1	22.2
101	0.94	9.1	0.082	0.067	0.080	0.072	0.051	3.3	9.1	22.4
104	0.7	9.1	0.069	0.084	0.069	0.079	0.072	3.4	9.1	22
104	0.8	9.1	0.066	0.072	0.066	0.091	0.065	3.4	9	23.1
106	0.72	9.2	0.067	0.068	0.073	0.084	0.061	3.4	9.1	22.1
107	0.87	9.2	0.095	0.070	0.105	0.084	0.061	3.5	9	20.9
104	0.72	9.2	0.080	0.093	0.078	0.076	0.077	3.4	9	21
107	0.84	9.2	0.076	0.082	0.076	0.104	0.075	3.5	9	19.6
106	0.69	9.1	0.075	0.078	0.074	0.092	0.068	3.8	8.9	18
104	0.71	9.2	0.097	0.080	0.109	0.085	0.059	3.6	8.8	18.4
103	0.83	9.2	0.086	0.096	0.084	0.086	0.073	3.8	8.8	18.5
92	0.79	9.1	0.078	0.079	0.077	0.106	0.074	3.7	8.9	16.6
93	0.82	9	0.071	0.071	0.074	0.088	0.066	3.7	8.8	17.5
107	0.9	8.9	0.092	0.072	0.102	0.080	0.059	4.1	8.9	17.7
118	1.03	9.1	0.083	0.096	0.079	0.077	0.063	3.7	9	17
101	1.04	9.1	0.075	0.076	0.073	0.106	0.069	3.9	8.9	17.9
106	1.18	9.1	0.080	0.081	0.087	0.098	0.074	3.9	8.9	18.6
104	1.06	9.1	0.105	0.082	0.128	0.098	0.074	3.9	8.9	18.6
106	1.16	9.2	0.120	0.129	0.107	0.100	0.077	3.7	8.9	15.6
104	1.32	9.1	0.092	0.100	0.092	0.124	0.101	3.9	8.9	12.7
103	1.3	9.2	0.083	0.086	0.088	0.105	0.085	3.6	8.8	11.3
102	1.5	9.1	0.081	0.073	0.104	0.087	0.071	3.6	9.1	10.8
106	1.3	9.1	0.093	0.097	0.085	0.082	0.066	3.4	9.1	12.1
100	1.26	9.2	0.081	0.087	0.077	0.101	0.094	3.9	9.3	11.1
102	1.07	9.3	0.065	0.068	0.067	0.083	0.065	4.1	9.3	10.4

99	1.15	9.2	0.061	0.064	0.092	0.076	0.060	4	9.1	11.6
106	1.08	9.2	0.087	0.082	0.076	0.075	0.060	3.9	9.1	12.7
108	1.1	9.1	0.079	0.084	0.079	0.096	0.085	3.8	9	16.9
113	0.97	9	0.081	0.082	0.083	0.108	0.078	3.9	8.9	15.9
114	1.14	9	0.079	0.079	0.112	0.101	0.074	4	9	15.8
116	1.09	9.1	0.097	0.091	0.091	0.089	0.065	3.9	9	15.7
117	1	9	0.097	0.098	0.094	0.101	0.092	4.2	9	14.5
121	0.95	9	0.089	0.084	0.075	0.119	0.087	3.8	9	14.2
122	0.96	9	0.083	0.071	0.081	0.100	0.076	4	9	13.4
118	0.98	9	0.096	0.077	0.075	0.092	0.070	3.8	9	13.8
119	0.98	9.1	0.091	0.087	0.067	0.092	0.091	4	9.1	13.8
123	0.98	9.1	0.086	0.078	0.064	0.115	0.084	3.7	9.1	17
123	1.3	9.2	0.097	0.085	0.075	0.098	0.077	4	9.1	17.1
120	1.4	9.2	0.109	0.098	0.084	0.109	0.095	3.9	9.2	10.8
121	0.93	9	0.097	0.088	0.093	0.127	0.100	3.9	8.9	11.6
124	0.99	9.1	0.095	0.105	0.114	0.110	0.089	3.9	9.1	13
130	3.2	9.2	0.105	0.090	0.091	0.094	0.093	3.7	9.3	14.1
128	2.4	9.1	0.111	0.117	0.133	0.126	0.096	4	9.1	15
126	1.13	8.9	0.115	0.102	0.109	0.114	0.104	4.1	8.9	15.2
124	2.8	8.9	0.136	0.121	0.159	0.181	0.145	4.3	8.9	13.9
132	0.74	8.9	0.134	0.124	0.112	0.120	0.107	4.1	8.8	14.8
128	0.85	8.8	0.107	0.098	0.103	0.108	0.089	3.9	8.8	15.1
126	0.91	9	0.092	0.085	0.119	0.112	0.079	3.7	9	15.4
126	0.71	9.1	0.090	0.092	0.108	0.124	0.102	3.8	9.1	15.6
126	0.9	9.1	0.111	0.089	0.091	0.100	0.084	4	9.2	16
124	1	9.1	0.087	0.074	0.092	0.091	0.074	3.7	9.1	16.6
126	1.2	9.1	0.085	0.091	0.108	0.112	0.082	3.6	9.1	16.6
130	1.2	9	0.119	0.091	0.097	0.109	0.094	3.6	9	15.3
126	1	8.9	0.096	0.082	0.092	0.100	0.081	3.8	8.9	14.5
124	0.97	8.7	0.082	0.081	0.110	0.103	0.069	3.6	8.9	14
126	1.05	8.9	0.066	0.093	0.080	0.089	0.066	3.7	8.9	13.7
123	0.67	9	0.084	0.072	0.070	0.077	0.084	4	9	13.8
118	0.5	9.1	0.066	0.062	0.062	0.068	0.066	3.9	9	14
122	0.65	9.1	0.059	0.059	0.075	0.075	0.060	4.1	9	12.7
149	0.88	9	0.067	0.094	0.081	0.092	0.068	3.8	9.1	13.5
122	0.83	9.1	0.073	0.066	0.064	0.070	0.080	4	9.1	13.7
127	0.86	9.1	0.068	0.064	0.063	0.069	0.065	3.8	9.1	12.5
126	0.86	9	0.064	0.073	0.087	0.082	0.062	3.7	9	12.9
124	0.78	9.1	0.060	0.070	0.066	0.073	0.056	3.8	9.1	12.8
127	0.98	9.1	0.075	0.067	0.064	0.072	0.080	3.7	9.1	11.6
130	0.75	9.1	0.065	0.063	0.063	0.069	0.066	3.2	9	10.9
127	0.8	9.3	0.060	0.059	0.086	0.081	0.061	3.2	9.1	10.9
125	1.1	9.1	0.060	0.088	0.074	0.080	0.059	4	9.2	11.1
133	1.1	9.2	0.092	0.073	0.074	0.079	0.088	4.2	9.2	9.1
151	1.15	9.1	0.088	0.080	0.083	0.087	0.087	3.9	9.1	9.1
149	1.2	9.1	0.085	0.080	0.111	0.103	0.083	4	9.1	9.8
142	1.7	9.1	0.080	0.114	0.102	0.111	0.080	4	9.1	8.9
142	1.9	9.2	0.114	0.092	0.087	0.093	0.097	4	9.1	7.2
140	1.6	9.2	0.086	0.077	0.082	0.084	0.089	4.4	9.2	9.9
140	2.2	8.9	0.081	0.075	0.085	0.087	0.082	4.3	8.9	7.9
118	6.2	9.1	0.113	0.116	0.129	0.125	0.116	4	9.1	6.9
136	3.7	9.1	0.091	0.083	0.124	0.101	0.091	4	9.1	7.9
137	1.9	9.2	0.075	0.095	0.097	0.095	0.074	3.8	9.3	7.9
140	2.3	9.3	0.078	0.090	0.093	0.121	0.093	4.3	9.3	8.5
132	2.5	9.2	0.098	0.069	0.077	0.092	0.081	3.6	9.2	8.5

125	1.9	9.3	0.059	0.051	0.074	0.068	0.066	3.9	9.3	8.6
117	1.9	9.3	0.053	0.061	0.072	0.064	0.054	3.5	9.2	8.2
121	1.4	9.2	0.051	0.059	0.063	0.076	0.051	3.2	9.2	8.2
138	1.9	9.2	0.093	0.064	0.073	0.088	0.065	3.5	9.2	9.2
172	4	7.4	0.127	0.099	0.131	0.122	0.147	4.2	9	8.3
122	2.3	9.1	0.062	0.049	0.084	0.070	0.061	3.6	9.1	8.6
122	1.4	9	0.052	0.067	0.064	0.069	0.051	3.7	9.1	11.4
128	1.4	9.1	0.066	0.058	0.064	0.079	0.051	3.5	9.1	11
129	1.3	9.1	0.066	0.057	0.063	0.071	0.075	3.6	9.1	10.7
130	1	9.1	0.063	0.058	0.090	0.071	0.063	3.7	9	11
125	1.4	9.1	0.063	0.081	0.076	0.074	0.063	4.2	9	11.5
117	1	9.1	0.063	0.059	0.064	0.081	0.053	4.1	9.1	11.3
120	1.07	9.1	0.063	0.055	0.071	0.069	0.066	4	9	11.7
124	0.8	9.2	0.063	0.055	0.071	0.069	0.066	4.2	9.1	10.3
126	0.86	9.2	0.071	0.068	0.074	0.086	0.061	3.9	9.1	10.7
124	1.3	9.2	0.075	0.077	0.090	0.085	0.079	3.8	9.1	13.4
118	1.3	9.1	0.072	0.063	0.074	0.081	0.060	3.9	9.2	13.3
116	1.5	9.2	0.061	0.069	0.080	0.075	0.062	3.7	9.2	14.6
122	0.84	9.2	0.079	0.063	0.078	0.084	0.054	3.8	9.1	13.5
123	0.86	9.1	0.065	0.062	0.073	0.074	0.060	4.1	9.1	13
116	0.83	9.1	0.063	0.073	0.085	0.083	0.060	3.7	9.1	13.6
118	1.11	9.1	0.075	0.056	0.075	0.081	0.054	3.8	9.1	10.1
114	0.96	9.1	0.060	0.067	0.073	0.069	0.072	3.8	9.1	10.3
118	1	9.2	0.071	0.054	0.075	0.081	0.061	3.7	9.2	11.7
113	0.81	9.3	0.058	0.056	0.064	0.068	0.067	3.5	9.2	10.3
113	1.05	9.2	0.066	0.054	0.074	0.075	0.061	3.6	9.2	11.5
112	0.98	9.2	0.061	0.049	0.067	0.070	0.058	3.7	9.2	12.5
110	0.89	9.2	0.066	0.060	0.072	0.071	0.071	3.4	9.1	14.6
113	0.91	9.1	0.062	0.055	0.072	0.076	0.060	3.5	9.1	14
108	0.87	9.1	0.063	0.064	0.063	0.065	0.073	3.5	9.1	16.1
112	1.3	9.3	0.059	0.056	0.078	0.074	0.056	3.6	9.3	14.4
111	2.8	9.6	0.058	0.052	0.061	0.061	0.049	3.6	9.6	14.4
116	1.6	9.1	0.065	0.075	0.078	0.066	0.069	3.2	9	14.2
115	0.73	9.1	0.063	0.065	0.077	0.086	0.065	3.8	9	14.9
114	0.78	9.1	0.078	0.084	0.071	0.073	0.075	3.7	9.1	15.2
117	0.82	9.2	0.072	0.070	0.089	0.086	0.069	3.7	9	10.8
112	0.75	9	0.072	0.079	0.088	0.087	0.076	3.5	9	12.3
113	0.67	9.3	0.072	0.070	0.081	0.077	0.072	5.2	9.1	11.4
121	0.87	9.2	0.071	0.061	0.077	0.080	0.065	4.3	9.3	12
115	0.69	9.3	0.057	0.055	0.076	0.074	0.063	4.3	9.3	13.6
113	1.3	9.3	0.066	0.065	0.068	0.071	0.059	3.8	9.3	14
118	0.8	9.1	0.061	0.062	0.092	0.077	0.075	4	9.1	12.4
120	0.69	9.2	0.080	0.081	0.085	0.085	0.074	4.5	9	9.7
122	0.9	9.1	0.076	0.081	0.084	0.089	0.066	4.4	9.1	10.7
126	0.87	9.1	0.067	0.075	0.092	0.082	0.077	4.2	9	10.8
129	0.78	9.2	0.073	0.079	0.089	0.088	0.072	4	9.2	10.7
121	0.63	9.2	0.073	0.079	0.087	0.088	0.073	4.2	9.1	6.8
113	0.52	9.1	0.070	0.075	0.082	0.083	0.069	3.9	9.1	8.8
123	0.57	9.1	0.077	0.083	0.084	0.092	0.070	4.3	9.1	8.3
120	0.62	9.1	0.079	0.085	0.099	0.096	0.083	3.8	9.1	9.6
127	0.58	9.1	0.092	0.100	0.112	0.106	0.095	3.8	9	8.1
118	0.7	9.2	0.096	0.097	0.110	0.098	0.093	3.6	9.1	9.8
113	0.69	9.2	0.082	0.084	0.095	0.084	0.079	3.5	9.2	9.5
114	0.7	9.3	0.080	0.081	0.095	0.086	0.079	3.8	9.3	11.9
115	0.75	9.2	0.085	0.086	0.100	0.090	0.083	3.9	9.3	12.8

118	1.1	9.3	0.088	0.089	0.101	0.091	0.087	3.8	9.3	12.5
118	1.4	9.35	0.073	0.077	0.088	0.081	0.072	3.6	9.3	12.7
113	1.6	9.3	0.089	0.083	0.082	0.076	0.070	3.6	9.3	13.5
115	1	9.1	0.112	0.115	0.133	0.125	0.122	3.9	9.1	14.3
120	1.2	9	0.117	0.114	0.118	0.110	0.099	3.9	9	14.7
112	0.97	9	0.109	0.108	0.117	0.107	0.104	3.9	9	14.6
108	0.82	9.1	0.093	0.094	0.116	0.112	0.104	3.7	9.1	15.5
1.8	0.7	9	0.101	0.100	0.103	0.106	0.100	3.9	9	17.4
107	0.76	9	0.104	0.113	0.126	0.105	0.099	4.4	9.2	17.4
107	0.81	9.1	0.123	0.112	0.137	0.130	0.124	4.6	9.1	16.8
113	0.86	9.2	0.132	0.134	0.125	0.130	0.119	4.4	9.2	16.5
111	1.03	9.1	0.109	0.104	0.153	0.119	0.120	4.4	9.1	16.8
			0.122	0.160	0.131	0.112	0.105			
100	0.76	9.2	0.121	0.105	0.111	0.127	0.115	4.5	9	16.4
101	0.77	9.1	0.107	0.132	0.130	0.101	0.097	4.4	8.8	16.7
100	0.89	9.2	0.102	0.107	0.130	0.116	0.110	3.7	9.2	17.3
99	0.83	9.4	0.128	0.118	0.145	0.125	0.116	3.6	9.3	18.3
102	1.07	9.8	0.117	0.138	0.146	0.125	0.109	3.5	9.1	19.3
102	1.2	9.9	0.159	0.139	0.158	0.158	0.141	3.3	9.1	17.5
104	0.66	9.8	0.156	0.142	0.179	0.153	0.126	3.4	9.1	16.8
100	0.73	9.7	0.121	0.111	0.124	0.122	0.104	3.4	9.1	17.1
103	0.72	9.6	0.146	0.135	0.157	0.145	0.124	3	9.2	19.3
104	1.1	9.7	0.129	0.135	0.141	0.140	0.126	3.4	9.2	20.4
103	0.83	9.8	0.125	0.110	0.141	0.126	0.095	3.6	9.3	19.5
105	0.83	9.9	0.161	0.129	0.169	0.172	0.127	3.3	9.2	21.3
103	0.81	10	0.141	0.174	0.143	0.154	0.149	3.1	9.1	20.9
99	0.71	9.9	0.174	0.138	0.188	0.166	0.116	3.4	9.2	20.4
98	0.76	10	0.134	0.138	0.130	0.145	0.120	3.7	9.2	18.7
99	0.65	9.9	0.123	0.138	0.136	0.122	0.077	3.7	9.1	18.9
97	0.7	9.9	0.145	0.113	0.131	0.151	0.106	3.7	9	19.9
96	0.66	9.8	0.136	0.128	0.145	0.121	0.114	3.7	9.2	20.9
96	0.91	9.9	0.098	0.082	0.120	0.104	0.075	3.4	9.4	21.1
94	0.85	10	0.089	0.082	0.080	0.084	0.085	3.4	9.3	20.7
93	0.75	10	0.100	0.070	0.084	0.121	0.069	3.6	9.3	19.7
77	0.66	9.8	0.109	0.084	0.099	0.102	0.078	3.4	9.2	19.3
94	0.56	9.9	0.087	0.072	0.085	0.112	0.067	3.3	9.3	20.8
94	0.47	10	0.109	0.090	0.111	0.108	0.080	3.5	9.3	20.2
93	0.42	10.1	0.087	0.073	0.089	0.110	0.069	3.5	9.2	19.3
103	0.58	9.9	0.084	0.096	0.126	0.094	0.074	3.4	9.1	18.9
102	0.9	9.8	0.103	0.094	0.096	0.123	0.086	3.2	9.3	20.3
105	0.51	9.9	0.080	0.084	0.082	0.085	0.079	3.6	9.4	20.3
97	0.91	10.1	0.067	0.046	0.070	0.079	0.042	3.5	9.3	19.9
92	1.2	10	0.049	0.059	0.058	0.064	0.042	3.4	9.4	19.9
98	0.85	10.1	0.082	0.062	0.084	0.069	0.073	3.3	9.3	18.7
94	0.56	10	0.095	0.086	0.095	0.107	0.080	3.4	9.3	19.6
98	0.76	10	0.094	0.066	0.111	0.082	0.064	3.3	9.3	20.3
101	0.62	10	0.097	0.098	0.088	0.097	0.095	3.3	9.2	20.4
93	0.44	10	0.086	0.061	0.106	0.079	0.058	3.4	9.2	20.5
94	0.67	10.1	0.062	0.073	0.074	0.091	0.069	3.5	9.2	21.2
101	0.69	10	0.096	0.072	0.099	0.092	0.069	3.6	9.2	21.6
99	0.62	10	0.105	0.077	0.101	0.097	0.077	3.5	9.2	20
102	1.8	10.2	0.062	0.065	0.072	0.077	0.065	4.2	9.1	19.1
98	0.8	9.9	0.094	0.061	0.068	0.070	0.053	3.3	9	19.2
97	0.72	9.7	0.113	0.104	0.110	0.110	0.089	3.2	9.1	20
95	0.5	9.8	0.085	0.081	0.082	0.083	0.066	3.6	9.3	20.2

97	0.57	9.9	0.108	0.083	0.107	0.103	0.089	4.2	9.3	20.5
101	0.49	9.9	0.099	0.092	0.100	0.088	0.085	3.7	9.4	22.1
93	0.63	9.9	0.089	0.071	0.085	0.083	0.066	3.9	9.4	22.1
95	0.65	9.9	0.097	0.090	0.100	0.095	0.078	4.1	9.3	21.4
96	1.1	9.5	0.084	0.068	0.094	0.092	0.064	4.8	9.2	22.4
101	1.1	9.9	0.092	0.083	0.082	0.086	0.072	4.3	9.3	21.4
97	0.69	9.8	0.095	0.094	0.115	0.107	0.075	4.1	9.2	21.4
93	0.58	9.8	0.094	0.076	0.093	0.097	0.075	3.9	9.3	21.3
90	0.71	9.5	0.103	0.095	0.107	0.093	0.069	3.8	9.5	21.8
94	0.79	9.8	0.088	0.074	0.104	0.101	0.082	3.5	9.3	21.1
94	0.79	9.8	0.094	0.084	0.089	0.079	0.072	3.6	9.2	21
92	0.65	9.8	0.071	0.064	0.079	0.073	0.060	3.9	9.3	21
87	0.87	9.7	0.067	0.059	0.111	0.094	0.050	3.7	9.1	21.2
91	0.66	9.7	0.107	0.098	0.097	0.084	0.052	3.7	9.2	21.7
90	0.76	9.8	0.080	0.067	0.076	0.069	0.073	3.4	9.2	22.2
86	0.85	9.7	0.062	0.055	0.093	0.091	0.047	3.4	9.3	22.7
83	0.07	9.8	0.063	0.058	0.095	0.082	0.047	3.3	9.1	22.9
85	0.48	9.9	0.066	0.102	0.090	0.080	0.049	3.6	9.2	25.8
79	0.54	10.2	0.069	0.075	0.076	0.069	0.069	3.6	9.2	22.4
82	0.69	9.9	0.082	0.054	0.080	0.087	0.051	3.8	9	21.7
78	0.88	9.4	0.070	0.056	0.096	0.081	0.048	3.7	9	20.1
74	0.81	9.4	0.065	0.085	0.081	0.074	0.045	3.6	9	21.5
77	0.84	9.4	0.076	0.095	0.091	0.084	0.091	3.7	9.1	21.2
130	1.9	9.8	0.202	0.138	0.140	0.171	0.146	3.7	9.1	21.7
123	1.9	10.1	0.176	0.114	0.270	0.179	0.117	3.7	9.2	21.2
122	1.6	10.3	0.139	0.135	0.172	0.140	0.120	3.5	9.2	21.7
116	1.9	10.5	0.097	0.119	0.105	0.100	0.079	3.7	9.4	22.3
108	2	10.4	0.139	0.102	0.097	0.093	0.126	3.4	9.3	22
108	3.1	10.4	0.131	0.106	0.106	0.129	0.114	3.7	9.2	21.9
101	2.7	10.3	0.119	0.102	0.140	0.141	0.098	3.7	9.3	22.6
89.6	9.8	10.3	0.118	0.146	0.128	0.126	0.098	3.47	9.3	22.96
61	1	10.5	0.096	0.050	0.053	0.058	0.073	4	9.1	23.2
59	1.1	10.5	0.063	0.039	0.045	0.061	0.047	3.7	9.2	23.5
60	1.1	10.5	0.052	0.040	0.071	0.071	0.040	3.4	9.1	23.1
59	1.8	10.2	0.046	0.059	0.052	0.057	0.035	3.8	9.5	24.5
58	1	10.5	0.053	0.045	0.046	0.052	0.059	3.6	9.4	25.4
57	1.3	10.5	0.055	0.038	0.042	0.050	0.038	3.5	9.4	24.9
58	1.3	10.3	0.054	0.041	0.083	0.087	0.039	3.5	9.2	26.2
58	0.98	10.4	0.050	0.065	0.059	0.063	0.033	3.4	9.2	25
58	1.1	10.4	0.046	0.044	0.047	0.054	0.044	3.7	9	25.9
56	1.2	10.5	0.072	0.042	0.037	0.053	0.043	3.5	9	25.9
69	1.3	10.2	0.057	0.041	0.066	0.084	0.041	3.7	9.2	26
54	1.1	10.5	0.048	0.064	0.055	0.062	0.035	3.8	9.1	24.8
56	1.1	10.3	0.052	0.060	0.055	0.063	0.052	3.9	9	25.1
55	1.1	10.3	0.075	0.045	0.046	0.056	0.049	3.8	9.1	24.4
57	1.4	10.3	0.060	0.044	0.057	0.071	0.037	3.9	9.1	25
47	1.3	10.2	0.051	0.065	0.053	0.050	0.029	3.8	9	24.5
54	1.2	10.5	0.043	0.047	0.041	0.040	0.032	3.9	9.2	24.1
53	1.9	10.3	0.074	0.041	0.041	0.041	0.044	3.6	9.3	25.1
54	1.3	10.3	0.053	0.037	0.045	0.055	0.031	3.2	9.3	26.6
55	1.3	10.5	0.046	0.045	0.047	0.045	0.029	3.6	9.4	25.8
57	1.9	10.4	0.046	0.048	0.043	0.044	0.029	3.8	9.4	26
55	1.6	10.2	0.065	0.043	0.042	0.043	0.046	3.8	9.3	26
58	1.8	10.3	0.074	0.046	0.052	0.070	0.046	3.5	9	27
57	1.6	10.4	0.052	0.045	0.063	0.064	0.032	3.7	9.3	27.9

56	1.7	10.5	0.056	0.066	0.055	0.063	0.035	3.8	9.2	27.6
56	1.1	10.4	0.056	0.036	0.043	0.053	0.044	3.9	9.1	26.4
58	2	10.7	0.059	0.027	0.040	0.057	0.034	3.6	9.7	26.4
67	1.9	10.7	0.056	0.035	0.069	0.074	0.038	3.9	9.2	27.5
63	1.7	10.6	0.065	0.090	0.064	0.074	0.049	3.7	9	25.7
70	1.9	10.4	0.062	0.062	0.055	0.066	0.067	3.8	9.2	28
71	1.5	1.7	0.066	0.039	0.041	0.051	0.042	3.6	9.3	27.4
64	1.8	10.6	0.051	0.040	0.053	0.067	0.037	4.1	9.4	26.4
69	1.4	10.6	0.048	0.058	0.045	0.054	0.035	4	9.4	26.5
67	1.8	10.6	0.047	0.047	0.042	0.052	0.041	4.1	9.2	28
66	2.6	10.6	0.064	0.044	0.041	0.052	0.043	3.9	9.3	27
68	1.5	10.6	0.053	0.043	0.061	0.074	0.039	4.3	9.5	28
103	1.5	10.6	0.051	0.067	0.060	0.065	0.038	4.2	8.6	26.5
117	3.7	10.6						4.2	9.1	25.3
115	1.9	10.7						3.9	9.4	26.9
113	1.9	10.6						3.7	9.4	26
106	1.9	10.6						3.7	9.3	28.2
109	1.6	10.6						3.6	9.4	28.8
108	1.8	10.5						3.7	9.3	28.9
114	2.2	10.5						3.9	9.3	28.6
105	1.7	10.5						3.7	9	28.6
113	1.5	10.4						3.5	8.6	28.1
107	1.5	10.7						3.6	9.5	28
106	1.8	10.5						3.6	9.4	29.1
103	1.8	10.5						3.5	9.4	28.2
100	2.1	10.4						3.4	8.9	25.6

Clearwell	Finished Water									
	6	3	3	3	3	1	1	1	1	1
Turbidity (NTU)	Total Cl2 (ppm)	Mono-Cl (ppm)	Free NH3 (ppm)	pH	Chloride (ppm)	Chlorite (ppm)	Chlorate (ppm)	Sulfate (ppm)	Nitrate (ppm)	Nitrite (ppm)
0.15	3.5	3	0.19	9.2	94	0.25		29	1.1	0
0.16	3.4	3.1	0.1	9		0.25				
0.15	3.2	3.2	0.09	8.9		0.24				
0.13	3.4	3.3	0.12	8.5		0.24				
0.14	3.5	3.3	0.11	8.3		0.24				
0.13	3.5	3.1	0.1	8.2		0.18				
0.15	3.2	3.2	0.09	8.7		0.25				
0.15	3.4	3.1	0.1	8.7		0.25				
0.16	3.2	3	0.1	8.4		0.24				
0.16	3.2	3	0.14	8.3		0.26				
0.17	3.3	3	0.15	7.9		0.26				
0.17	3.2	3	0.11	7.9		0.25				
0.19	3	2.9	0.07	8.1		0.28				
0.18	3.1	3	0.1	8.4		0.30				
0.16	3.1	2.9	0.14	8.6		0.28				
0.14	3.1	2.9	0.14	8.5		0.27				
0.15	3.1	2.8	0.1	8.3		0.28				
0.15	3.1	3	0.09	8.5		0.28				
0.16	3	2.8	0.1	8.8		0.27				
0.15	3	2.9	0.13	8.8		0.26				
0.14	3	2.9	0.18	8.9		0.26				
0.15	3.1	2.9	0.17	9.1		0.31				
0.14	3.3	3.1	0.25	9.1		0.32				
0.14	3.2	3.1	0.28	9.1		0.29				
0.13	3.1	2.7	0.2	9.2		0.32				
0.14	3.1	3	0.18	9.2		0.29				
0.16	3.9	3.9	0.42	9.1		0.31				
0.12	3.5	3.7	0.34	9.2		0.28				
0.11	3.7	3.7	0.28	9.1		0.25				
0.10	3.7	3.7	0.63	9.1		0.24				
0.10	3.8	3.7	0.39	9	100	0.23		29	0.5	0.01
0.10	3.9	3.8	0.49	8.9		0.26				
0.10	4	3.8	0.4	9		0.27				
0.10	3.7	3.7	0.45	9.1		0.26				
0.11	3.7	3.6	0.39	9.2		0.25				
0.12	3.7	3.7	0.34	9.1		0.26				
0.14	3.6	3.6	0.3	8.9						
0.15	3.8	3.7	0.33	9.2						
0.15	3.7	3.6	0.34	9.1						
0.16	3.6	3.4	0.34	9.1						
0.15	3.6	3.5	0.43	9						
0.16	3.6	3.5	0.62	9.1						
0.17	3.6	3.6	0.84	9.2						

0.16	3.5	3.5	0.51	9.2	120			30	1.5	0.02
0.08	3.7			8.5					2.39	0.027
0.08	3.6			9.1					2.42	0.039
0.08	3.6			8.8					3.32	0.024
0.08	2.4			8.8	79	0.23		39	3.05	0.02
0.08	2			8.9					2.77	0.02
0.07	3.2			8.9					2.83	0.03
0.07	3.3			8.9					2.58	0.03
0.08	3.4			8.7					2.78	0.03
0.08	3.4			8.8					2.54	0.02
0.08	3.4	No Testing Requirement for FSV2	No Testing Requirement for FSV2	8.9			No Testing Requirement for FSV2		2.56	0.02
0.08	3.6			8.9					2.42	0.03
0.1	2.9			8.8					2.77	0.03
0.08	3.4			8.8					2.49	0.02
0.1	3.1			8.8					2.56	0.02
0.1	3.3			9					2.36	0.02
0.07	3			9.2					2.99	0.02
0.09	3.4			9.2					2.84	0.02
0.1	2.8			9.2					2.55	0.02
0.1	2.5			9.2					3.01	0.02
0.1	2.7			9.2					3.3	0.02
0.1	3.1			9.2					2.89	0.02
0.08	3.1			9.3					2.62	0.02
0.08	3.5			9.2					1.42	0.02
0.08	3.2			9.2					1.76	0.02
0.08	3.2			9.2					1.92	0.02
0.09	3.3			9.3					1.06	0.02
0.1	3.4			9.2					1.67	0.03
0.09	3.2			9.3					1.77	0.03
0.09	3.1			9.1					0.94	0.02
0.07	3			9.2					1.36	0.02
0.25	2.9	2	0.32	8.4	136.30	0.47	0.34	40.16	0.54	0.09
0.06	3.2	3	0.23	8.9	105.05	0.32	0.27	35.65	1.97	0.06
0.05	3.3	3.1	0.17	9.1	74.02	0.27	0.18	31.19	2.18	0.03
0.06	3.5	3.4	0.23	9	70.43	0.23	0.14	31.74	2.95	0.02
0.09	3.4	3	0.1	9.1	68.01	0.24	0.13	34.50	2.93	0.02
0.05	3.3	2.9	0.19	9.1	65.33	0.22	0.14	34.27	2.58	0.02
0.05	3.2	3	0.22	9	68.16	0.24	0.15	35.52	2.87	0.03
0.04	3	2.7	0.19	9	64.59	0.24	0.12	34.16	2.79	0.02
0.04	3	2.6	0.18	9.1	63.16	0.24	0.15	34.66	2.19	0.02
0.04	2.9	2.8	0.17	9.1	64.00	0.23	0.14	34.44	2.60	0.02
0.04	3.1	3.2	0.16	9.2	60.24	0.22	0.14	34.34	1.71	0.02
0.04	3.2	3	0.16	9.2	60.72	0.21	0.14	34.54	1.83	0.02
0.04	2.7	2.5	0.26	9.1	59.90	0.22	0.16	34.85	1.69	0.02
0.06	2.4	2.3	0.13	9	61.66	0.22	0.15	34.41	1.84	0.01
0.05	2.5	2.3	0.07	8.9	63.87	0.22	ND	35.79	1.68	0.02
0.05	2.7	2.5	0.07	8.7	63.45	0.20	0.12	34.64	1.96	0.02
0.06	3.3	2	0.15	8.8	66.83	0.19	0.13	34.65	2.13	0.02
0.06	3.2	2.9	0.24	8.9	65.11	0.21	0.13	34.46	1.95	0.02
0.05	3.3	3	0.25	9	64.69	0.21	0.13	34.45	1.79	0.02
0.06	3.4	3.2	0.24	9	93.21	0.30	0.21	47.80	2.78	0.00
0.05	3.6	3.4	0.32	9.1	101.11	0.36	0.20	53.04	3.64	0.04
0.05	3.6	3.2	0.33	9.1	103.06	0.38	0.17	54.88	3.90	0.04

0.06	2.9	2.2	0.03	9.1	63.17	0.25	0.13	34.10	1.85	0.02
0.06	3.3	2.9	0.11	9.1	61.78	0.24	0.14	34.10	1.57	0.02
0.06	3.4	3	0.14	9.1	60.23	0.23	0.14	32.40	1.63	0.02
0.06	3.7	3.5	0.32	9.1	57.85	0.24	0.12	31.54	1.42	0.02
0.06	3.4	3.1	0.18	9.1	62.24	0.23	0.12	32.84	1.53	0.03
0.08	3.3	3.3	0.34	9.2	64.70	0.24	0.09	33.96	2.34	0.02
0.07	3.1	2.9	0.27	9.2	65.23	0.22	0.11	34.04	2.09	0.02
0.07	2.8	2.6	0.06	9.1	59.16	0.21	0.12	31.20	1.58	0.02
0.08	3	3	0.09	9.2	65.19	0.23	0.11	33.81	1.80	0.03
0.07	3.5	3.3	0.4	9.2	65.30	0.23	0.10	34.20	2.08	0.02
0.07	3.6	3.4	0.16	9.2	64.60	0.23	0.09	34.05	1.97	0.02
0.06	3.5	3.5	0.24	9.3	63.75	0.21	0.09	33.11	2.13	0.02
0.08	3.5	3.5	0.29	9.3	63.56	0.21	0.06	32.94	2.39	0.02
0.07	3.6	3.2	0.39	9.2	56.96	0.20	0.04	30.83	1.78	0.02
0.08	3.4	3.3	0.37	9.2	60.24	0.21	0.04	32.85	1.93	0.02
0.09	3.2	3	0.35	9.1	73.65	0.21	0.07	33.17	1.62	0.02
0.09	2.9	2.9	0.37	9.1	59.95	0.21	0.05	33.17	1.53	0.02
0.08	3.9	3.2	0.41	9.1	57.88	0.19	0.05	32.62	1.61	0.02
0.06	3.6	3.5	0.34	9.1	55.53	0.18	0.05	30.85	1.67	0.02
0.06	3.3	3.1	0.33	9.2	58.88	0.18	0.06	32.54	2.10	0.02
0.06	3.3	3.2	0.33	9.2	61.38	0.19	0.06	32.12	2.68	0.02
0.06	3.3	3	0.27	9.1	56.23	0.16	0.06	29.36	2.28	0.02
0.06	3.3	3	0.25	9.1	53.56	0.16	0.06	28.41	2.05	0.02
0.07	3.5	3.1	0.31	9.1	59.65	0.17	0.06	31.64	2.43	0.03
0.08	3.8	3.3	0.33	9.1	60.94	0.19	0.06	31.84	2.64	0.03
0.08	3.7	3.4	0.32	9.1	59.66	0.19	0.06	31.90	2.46	0.02
0.09	3.8	3.4	0.34	9.1	60.08	0.19	0.06	31.54	2.99	0.02
0.09	3.7	3.3	0.37	9	55.79	0.17	0.06	30.73	2.70	0.02
0.09	3.7	3.4	0.35	9.1	52.49	0.16	0.06	29.09	2.35	0.02
0.09	3.8	3.5	0.19	9	57.74	0.20	0.07	32.74	2.60	0.02
0.09	3.8	3.6	0.17	9	55.82	0.22	0.10	32.13	2.62	0.02
0.1	3.9	3.5	0.19	9	55.43	0.21	0.09	31.65	2.75	0.03
0.08	3.9	3.6	0.17	8.9	56.89	0.22	0.09	31.64	3.22	0.03
0.08	3.6	3.5	0.23	9	55.80	0.21	0.09	30.91	3.26	0.02
0.08	3.8	3.3	0.25	9	57.72	0.21	0.12	32.23	3.77	0.02
0.07	3.7	3.4	0.28	9	58.40	0.19	0.10	32.65	3.53	0.02
0.1	3.3	3.1	0.28	9	56.34	0.20	0.11	32.63	2.57	0.02
0.08	3.8	3.6	0.39	9	54.08	0.19	0.08	30.89	2.31	0.02
0.1	4.1	3.9	0.37	9	55.78	0.20	0.07	31.15	2.64	0.02
0.09	3.9	3.8	0.35	8.9	52.07	0.20	0.08	30.31	2.26	0.02
0.1	3.6	3.3	0.16	8.9	48.62	0.18	0.07	27.79	2.18	0.02
0.11	3.6	3.4	0.08	8.9	52.10	0.19	0.07	29.51	2.74	0.02
0.14	3.8	3.7	0.15	9	56.89	0.22	0.09	31.64	3.22	0.03
0.1	4.2	3.9	0.13	8.9	55.97	0.23	0.08	29.65	2.56	0.02
0.11	4.2	3.8	0.12	8.6	55.13	0.23	0.09	28.48	2.67	0.02
0.14	3.7	1.4	0.11	8.8	56.82	0.24	0.09	30.00	2.60	0.02
0.11	3.6	3.3	0.2	8.9	55.46	0.24	0.10	30.03	1.98	0.02
0.09	3.2	2.9	0.3	8.9	52.61	0.22	0.10	28.06	1.97	0.02
0.1	3.5	3.3	0.31	9.1	57.17	0.24	0.10	29.88	2.71	0.02
0.09	3.9	3.5	0.32	9.1	57.72	0.21	0.07	27.70	2.96	0.02
0.08	3.9	3.7	0.32	9.1	57.40	0.20	0.08	26.49	2.65	0.02
0.08	3.9	3.7	0.37	9.1	62.03	0.21	0.10	30.17	2.40	0.02
0.07	3.1	2.8	0.26	9	62.66	0.20	0.20	30.07	2.31	0.02
0.07	3.2	3.1	0.29	9.1	66.48	0.20	0.20	30.79	2.53	0.02
0.08	2.5	2.4	0.24	9.1	63.72	0.19	0.17	30.37	2.34	0.02

0.06	3.6	3.2	0.25	9.1	59.75	0.17	0.10	27.59	2.21	0.02
0.06	3.5	2.6	0.14	9.1	66.74	0.20	0.11	30.43	2.75	0.02
0.06	3.6	3.4	0.28	9.2	66.13	0.20	0.11	30.36	2.74	0.02
0.08	3.9	3.7	0.44	9.1	70.27	0.22	0.11	31.83	2.82	0.02
0.07	4	3.5	0.31	9	73.03	0.21	0.11	32.16	3.11	0.02
0.06	3.6	3.4	0.39	9	69.86	0.22	0.12	31.35	2.60	0.02
0.07	3.5	3.3	0.31	9	66.32	0.20	0.10	28.90	3.12	0.02
0.09	3.2	3	0.33	9.1	69.97	0.22	0.12	31.72	2.92	0.02
0.08	3.8	3.5	0.35	9.1	68.69	0.24	0.00	30.88	3.02	0.03
0.07	3.3	3.2	0.16	9.2	67.96	0.25	0.17	30.80	2.60	0.03
0.09	3.4	3.1	0.07	9.2	63.62	0.21	0.12	29.58	1.81	0.02
0.08	3.6	3.3	0.08	9	63.77	0.20	0.16	30.48	1.57	0.71
0.13	3.8	3.6	0.12	9	64.95	0.24	0.13	30.80	1.93	0.02
0.09	3.7	3.5	0.2	9	66.33	0.24	0.09	31.51	1.92	0.03
0.08	3.6	3.4	0.28	9	63..7	0.23	0.12	23.87	1.44	0.02
0.09	3.5	3.3	0.3	9	60.06	0.23	0.11	30.07	1.17	0.02
0.09	3.3	3.2	0.3	9	59.61	0.22	0.12	30.81	0.80	0.02
0.08	3.8	3.5	0.3	9.1	64.00	0.22	0.11	31.71	1.75	0.27
0.08	4	3.8	0.2	8.9	58.32	0.21	0.11	30.15	0.99	0.02
0.09	3.9	3.7	0.16	8.9	59.41	0.23	0.12	31.58	0.64	0.02
0.08	3.9	3.6	0.14	8.8	58.78	0.24	0.12	31.47	0.54	0.02
0.07	3.7	3.5	0.15	8.8	60.09	0.24	0.13	32.30	0.39	0.02
0.07	3.6	3.3	0.22	8.7	62.51	0.23	0.14	33.77	0.26	0.02
0.08	3.5	3.2	0.24	8.8	59.30	0.22	0.11	31.86	0.28	0.02
0.09	3.3	3.1	0.31	8.8	59.95	0.21	0.10	31.47	0.25	0.02
0.08	3.5	3.4	0.26	8.8	59.29	0.21	0.10	31.51	0.27	0.02
0.08	3.5	3.4	0.27	8.8	59.58	0.21	0.10	31.57	0.26	0.02
0.08	3.5	3.2	0.19	8.9	60.72	0.20	0.10	32.01	0.24	0.02
0.09	3.6	3.3	0.12	8.9	62.18	0.22	0.15	32.40	0.28	0.02
0.07	3.9	3.3	0.13	8.9	51.51	0.22	0.11	32.10	0.25	0.02
0.06	3.5	3.3	0.08	9	62.50	0.20	0.11	32.23	0.23	0.02
0.08	3.3	3.2	0.17	9	63.49	0.22	0.11	33.26	0.26	0.02
0.08	3.2	3.1	0.19	9	68.40	0.23	0.12	35.98	0.29	0.02
0.08	3.3	3.3	0.18	9.1	69.28	0.25	0.13	36.40	0.27	0.02
0.07	3.4	3.2	0.18	9.1	69.20	0.25	0.13	36.28	0.27	0.02
0.08	3.3	3.2	0.2	9	75.47	0.28	0.13	39.38	0.27	0.02
0.09	3.3	3.2	0.07	8.9	70.87	0.25	0.12	36.76	0.24	0.02
0.09	3.3	3.1	0.07	8.9	66.10	0.23	0.10	32.97	0.24	0.02
0.09	3.5	3.3	0.07	8.8	67.11	0.20	0.10	33.85	0.24	0.02
0.09	3.6	3.4	0.07	8.8	68.90	0.20	0.09	33.70	0.22	0.01
0.1	3.7	3.6	0.08	8.7	67.49	0.21	0.10	33.14	0.21	0.02
0.09	3.6	3.5	0.13	8.8	65.42	0.20	0.10	32.34	0.23	0.01
0.08	3.6	3.4	0.14	8.8	66.37	0.21	0.11	32.22	0.23	0.01
0.08	3.5	3.5	0.16	8.8	61.18	0.20	0.31	30.76	0.20	0.01
0.09	4.1	3.7	0.21	8.8	62.41	0.04	0.30	32.10	0.19	0.01
0.09	4.1	4.1	0.22	8.8	62.17	0.21	0.30	32.64	0.20	0.02
0.09	3.8	3.9	0.22	8.9	60.55	0.22	0.19	31.83	0.19	0.02
0.1	3.5	3.8	0.22	8.8	61.13	0.24	0.31	32.24	0.19	0.01
0.11	3.8	3.7	0.19	8.8	61.23	0.25	0.28	33.10	0.22	0.01
0.11	3.7	3.6	0.02	8.8	57.48	0.20	0.28	31.43	0.21	0.01
0.1	3.7	3.6	0.01	8.7	57.78	0.20	0.28	31.36	0.19	0.01
0.09	3.4	3.5	0.02	8.9	57.17	0.19	0.29	31.68	0.19	0.01
0.08	3.6	3.5	0.03	9	55.05	0.19	0.29	30.89	0.13	0.01
0.1	3.5	3.5	0.03	9.2	54.21	0.19	0.30	30.57	0.19	0.01
0.08	3.9	3.9	0.01	9.2	53.82	0.21	0.27	30.83	0.21	0.01

0.08	3.9	3.8	0.02	9.1	53.67	0.25	0.28	30.39	0.20	0.01
0.08	3.7	3.8	0.02	9.1	53.37	0.20	0.20	29.36	0.31	0.01
0.09	3.8	3.8	0.04	9	60.07	0.18	0.19	29.00	0.19	0.01
0.1	3.7	3.7	0.04	8.9	82.56	0.23	0.11	34.68	0.26	0.02
0.11	3.7	3.8	0.24	8.9	89.79	0.23	0.14	34.66	0.24	0.02
0.07	3.8	3.7	0.02	8.9	94.83	0.19	0.12	34.37	0.26	0.02
0.1	4	3.8	0.03	9	101.29	0.12	0.08	34.63	0.23	0.02
0.1	3.8	3.7	0.08	8.9	98.18	0.19	0.09	32.03	0.18	0.01
0.09	3.6	3.7	0.06	8.9	112.46	0.26	0.11	34.82	0.19	0.01
0.09	3.6	3.6	0.14	9	106.84	0.19	0.11	32.93	0.19	0.02
0.09	3.6	3.5	0.08	8.9	104.61	0.17	0.10	31.74	0.18	0.01
0.09	3.7	3.6	0.05	9	111.30	0.23	0.12	32.80	0.21	0.02
0.09	3.7	3.7	0.06	9	104.37	0.22	0.11	29.97	0.19	0.01
0.1	3.6	3.5	0.09	9	116.03	0.22	0.11	32.84	0.23	0.02
0.11	3.7	3.7	0.04	8.9	120.07	0.22	0.11	32.90	0.24	0.02
0.1	3.7	3.6	0.08	9	121.80	0.23	0.10	32.53	0.24	0.01
0.09	3.7	3.6	0.08	9.2	124.40	0.23	0.11	33.00	0.22	0.01
0.11	3.7	3.6	0.06	9.1	131.74	0.23	0.24	34.17	0.22	0.00
0.11	3.8	3.7	0.06	9	137.20	0.22	0.29	35.61	0.22	0.00
0.13	4	3.7	0.11	8.9	138.33	0.25	0.28	35.94	0.24	0.00
0.12	4	3.9	0.11	8.9	140.97	0.27	0.29	33.29	0.24	0.00
0.1	3.7	3.8	0.05	8.9	145.17	0.28	0.28	36.05	0.20	0.00
0.09	3.5	3.5	0.04	8.8	142.08	0.26	0.27	37.52	0.24	0.00
0.1	3.6	3.5	0.09	9	133.36	0.24	0.23	35.78	0.20	0.00
0.09	3.3	3.4	0.05	9	139.20	0.29	0.31	37.65	0.23	0.00
0.08	3.6	3.5	0.05	9.1	138.60	0.26	0.30	38.03	0.22	0.00
0.09	3.4	3.5	0.08	9	139.11	0.28	0.32	38.26	0.24	0.00
0.1	3.5	3.5	0.06	9	140.60	0.29	0.30	38.23	0.22	0.00
0.09	3.5	3.4	0.07	8.9	138.51	0.23	0.12	35.46	0.00	0.34
0.07	3.6	3.6	0.09	8.8	148.17	0.29	0.26	40.47	0.25	0.02
0.08	3.3	3.6	0.07	8.7	148.90	0.29	0.31	44.99	0.27	0.02
0.08	3.7	3.7	0.05	8.8	148.62	0.29	0.30	47.83	0.33	0.02
0.06	3.7	3.6	0.05	9	143.24	0.31	0.30	45.63	0.26	0.02
0.06	3.7	3.7	0.05	9	140.96	0.29	0.30	46.82	0.27	0.02
0.07	3.9	3.9	0.05	9	140.82	0.29	0.29	47.49	0.26	0.02
0.07	4	3.8	0.07	9	150.59	0.34	0.30	49.41	0.25	0.02
0.06	3.7	3.7	0.06	9	125.37	0.26	0.21	41.32	0.22	0.01
0.07	3.3	3.8	0.07	9	128.78	0.27	0.24	42.76	0.23	0.01
0.06	3.8	3.7	0.05	9	128.75	0.27	0.23	42.75	0.21	0.02
0.07	3.9	3.7	0.08	9	127.33	0.35	0.23	43.19	0.24	0.02
0.06	3.4	3.5	0.06	9	127.36	0.27	0.25	43.31	0.22	0.02
0.06	3.2	3.3	0.03	9	128.09	0.27	0.27	43.68	0.22	0.01
0.07	3.7	3.6	0.04	9.1	125.88	0.26	0.26	44.86	0.21	0.02
0.08	3.5	3.8	0.06	9.2	114.75	0.30	0.23	43.17	0.21	0.01
0.08	3.6	3.6	0.08	9.1	137.87	0.41	0.30	47.57	0.19	0.02
0.09	3.9	3.9	0.05	9.1	143.64	0.45	0.35	48.83	0.19	0.01
0.1	4.1	4	0.04	9	132.88	0.45	0.33	49.86	0.26	0.01
0.09	3.9	3.7	0.03	9	123.83	0.46	0.32	49.03	0.26	0.01
0.08	3.9	4.1	0.01	9.1	121.11	0.48	0.33	48.83	0.25	0.01
0.08	4.1	3.9	0.02	8.8	117.36	0.51	0.31	47.06	0.24	0.01
0.11	3.5	3.8	0.05	8.9	108.11	0.48	0.35	49.14	0.39	0.02
0.1	3.6	3.7	0.04	9.1	95.93	0.43	0.33	42.99	0.24	0.01
0.08	3.9	4.1	0.06	9.2	95.64	0.45	0.29	44.53	0.26	0.01
0.09	4	4.1	0.06	9.2	96.68	0.46	0.30	46.35	0.27	0.01
0.09	3.7	3.6	0.11	9.2	91.92	0.48	0.31	45.92	0.24	0.01

0.06	4.2	4	0.07	9.2	84.20	0.44	0.28	45.31	0.27	0.01
0.06	3.5	3.3	0.12	9.2	79.95	0.42	0.29	45.21	0.30	0.01
0.06	3.3	3.4	0.15	9.1	71.91	0.23	0.36	40.13	0.28	0.01
0.07	3.5	3.5	0.13	9.2	71.70	0.25	0.35	42.12	0.29	0.01
0.12	3.5	3.8	0.07	9.1	86.96	0.26	0.48	46.48	0.19	0.01
0.07	3.7	3.6	0.03	9	87.87	0.50	0.11	41.46	0.20	0.01
0.06	3.7	3.6	0.03	9.1	78.00	0.39	0.12	38.42	0.24	0.01
0.06	3.7	3.5	0.03	9.1	78.87	0.35	0.13	37.90	0.27	0.01
0.07	3.5	3.6	0.03	9	84.22	0.33	0.10	37.99	0.26	0.01
0.07	3.3	3.4	0.07	9	87.69	0.30	0.11	36.18	0.24	0.01
0.07	3.5	3.6	0.05	9	98.65	0.31	0.11	37.92	0.25	0.01
0.06	3.7	3.9	0.06	9	99.78	0.27	0.33	36.44	0.26	0.01
0.07	3.9	4	0.06	9	99.78	0.25	0.28	35.57	0.24	0.01
0.08	4	3.9	0.08	9	107.24	0.25	0.10	36.40	0.28	0.01
0.07	3.8	3.6	0.1	9	113.89	0.27	0.35	37.28	0.33	0.02
0.08	3.8	3.5	0.1	9.1	118.03	0.28	0.27	37.09	0.25	0.02
0.08	3.6	3.5	0.11	9.1	116.39	0.26	0.30	36.73	0.31	0.02
0.08	3.6	3.5	0.1	9.1	117.21	0.26	0.09	37.81	0.32	0.02
0.07	3.8	3.6	0.06	9.1	118.56	0.25	0.25	38.68	0.38	0.02
0.07	3.8	3.7	0.04	9.1	123.09	0.26	0.07	39.57	0.33	0.02
0.08	3.5	3.6	0.02	9	122.72	0.26	0.26	39.80	0.35	0.02
0.07	3.6	3.4	0.06	9	120.14	0.27	0.26	40.23	0.34	0.02
0.07	3.5	3.4	0.08	9	115.90	0.27	0.28	39.97	0.31	0.02
0.07	3.7	3.6	0.08	9.1	111.84	0.27	0.26	39.72	0.28	0.02
0.06	3.4	3.3	0.05	9.1	104.57	0.26	0.06	37.36	0.31	0.02
0.07	3.4	3.3	0.16	9.2	98.06	0.25	0.15	37.17	0.33	0.02
0.07	3.4	3.4	0.12	9.2	93.50	0.21	0.19	36.49	0.29	0.02
0.07	3.6	3.5	0.11	9.1	93.07	0.23	0.20	36.71	0.35	0.02
0.07	3.4	3.5	0.08	9.1	93.67	0.24	0.31	37.06	0.34	0.02
0.07	3.6	3.6	0.07	9.1	87.29	0.24	0.25	34.57	0.39	0.02
0.07	3.4	3.4	0.12	9.1	119.85	0.20	0.37	50.19	0.35	0.02
0.05	3.6	3.4	0.08	9.3	94.35	0.23	0.27	37.01	0.36	0.02
0.06	3.4	3.4	0.02	9.2	98.12	0.23	0.26	36.75	0.36	0.02
0.08	2.9	2.8	0.04	9	103.34	0.21	0.34	37.87	0.33	0.01
0.07	3.7	3.4	0.04	9	106.49	0.25	0.49	37.68	0.35	0.02
0.07	3.1	3	0.03	9	110.68	0.22	0.42	38.63	0.33	0.02
0.08	3.1	3	0.03	8.9	112.28	0.19	0.37	38.29	0.33	0.01
0.07	3.6	3.1	0.04	8.8	114.84	0.22	0.28	38.57	0.29	0.01
0.07	4.1	4	0.04	9	117.53	0.23	0.25	38.75	0.31	0.02
0.07	4.2	4.1	0.04	9.2	118.24	0.23	0.17	38.94	0.28	0.02
0.07	4	3.8	0.04	9.3	107.75	0.23	0.22	36.45	0.30	0.02
0.07	3.9	3.6	0.03	9.2	111.24	0.24	0.20	37.12	0.30	0.02
0.08	3.9	3.8	0.06	9	114.84	0.23	0.23	37.33	0.31	0.02
0.08	3.9	3.8	0.04	9.1	117.34	0.25	0.18	37.65	0.27	0.02
0.09	4.1	3.7	0.04	8.9	121.05	0.23	0.21	38.04	0.28	0.02
0.08	4	3.8	0.05	9.1	123.25	0.24	0.19	37.43	0.24	0.02
0.09	3.8	3.7	0.05	9	126.04	0.27	0.10	38.21	0.28	0.02
0.08	4	3.6	0.05	9	121.05	0.23	0.17	38.57	0.27	0.03
0.08	3.7	3.7	0.06	9	121.50	0.21	0.23	36.20	0.23	0.02
0.09	3.5	3.4	0.04	8.9	120.92	0.27	0.16	35.39	0.24	0.01
10	4	3.9	0.05	9	130.37	0.28	0.13	35.12	0.02	0.02
0.08	3.4	3.6	0.05	8.9	129.93	0.27	0.11	34.61	0.21	0.02
0.08	3.1	3.5	0.03	9	122.66	0.27	0.17	33.83	0.27	0.02
0.09	3.6	3.6	0.02	9	121.03	0.24	0.12	33.70	0.23	0.02
0.105	3.4	3.6	0.03	9.2	118.85	0.27	0.27	34.22	0.24	0.02

0.09	3.9	3.5	0.03	9.2	112.78	0.27	0.16	33.23	0.24	0.02
0.08	3.6	3.6	0.03	9.2	112.45	0.28	0.20	33.87	0.28	0.02
0.08	3.4	3.4	0.02	9.4	106.61	0.30	0.17	31.36	0.26	0.02
0.12	3.7	3.8	0.07	9.1	103.60	0.25	0.15	30.48	0.29	0.01
0.12	3.6	3.7	0.04	8.9	113.78	0.31	0.27	32.02	0.26	0.02
0.11	3.6	3.6	0.02	8.9	107.80	0.29	0.30	32.84	0.31	0.02
0.11	3.8	3.6	0.03	9	99.18	0.25	0.24	32.04	0.29	0.02
0.12	4	3.7	0.02	8.9	93.76	0.26	0.21	31.97	0.38	0.02
0.13	4.3	4.2	0.04	8.9	91.73	0.25	0.21	31.75	0.31	0.02
0.14	4.3	4.1	0.03	9	87.47	0.25	0.25	31.50	0.39	0.02
13	4.3	4	0.03	9	87.60	0.26	0.50	32.23	0.35	0.02
0.11	3.9	4.2	0.04	9	88.39	0.25	0.22	32.19	0.31	0.02
					0.27	82.19	0.27	31.56	0.34	0.02
0.12	4.9	4.1	0.05	9.1	0.38	72.18	0.21	28.66	0.31	0.02
0.11	4	3.9	0.05	9	71.84	0.20	0.19	29.58	0.34	0.02
0.11	3.9	3.7	0.04	9.1	70.98	0.25	0.16	28.70	0.28	0.02
0.15	3.6	3.4	0.06	9.2	66.76	0.24	0.19	27.47	0.31	0.02
0.14	3.1	3.2	0.07	9.2	72.88	0.28	0.23	27.73	0.32	0.02
0.18	3	3	0.07	9.1	75.61	0.30	0.16	29.04	0.36	0.02
0.2	3.3	3.1	0.07	9.1	69.31	0.28	0.20	26.31	0.36	0.02
0.13	3.2	3.1	0.06	9.1	69.12	0.26	0.21	29.11	0.34	0.02
0.15	3.1	3.2	0.07	9	67.27	0.24	0.23	29.15	0.39	0.02
0.13	3.1	3.1	0.06	9.2	69.79	0.28	0.26	31.11	0.37	0.02
0.11	3.4	3.3	0.06	9.2	68.68	0.27	0.23	29.88	0.40	0.02
0.12	3.2	3.2	0.06	9.2	67.62	0.27	0.23	28.90	0.39	0.02
0.14	2.9	3	0.06	9.1	64.73	0.27	0.24	28.40	0.37	0.02
0.15	3.1	2.9	0.07	9.1	64.89	0.27	0.20	29.01	0.38	0.02
0.13	3.5	3.4	0.07	9.1	65.31	0.27	0.25	29.32	0.42	0.02
0.12	3.8	3.8	0.07	9	63.00	0.27	0.18	28.61	0.43	0.02
0.12	3.8	3.6	0.06	8.9	54.69	0.24	0.18	25.04	0.36	0.02
0.14	3.7	3.6	0.08	9	62.14	0.27	0.19	29.22	0.48	0.02
0.11	3.4	3.4	0.08	9.2	59.83	0.26	0.18	28.42	0.43	0.02
0.09	3.1	3.2	0.18	9.2	61.53	0.25	0.25	29.08	0.54	0.03
0.09	3.4	3.4	0.2	9.2	59.68	0.25	0.30	29.36	0.44	0.03
0.09	3.7	3.5	0.2	9	48.73	0.20	0.21	23.39	0.39	0.02
0.09	3.4	3.2	0.19	9	61.02	0.26	0.25	30.00	0.46	0.02
0.1	3.1	3.2	0.42	9.1	59.45	0.26	0.28	29.35	0.46	0.02
0.1	3.8	3.4	0.03	9	61.27	0.27	0.06	30.33	0.54	0.03
0.1	3.5	3.3	0.05	9	65.33	0.30	0.08	31.56	0.57	0.02
0.1	3.2	3.2	0.06	9.1	67.85	0.27	0.07	32.67	0.49	0.02
0.09	3.3	3.1	0.07	9.2	70.69	0.28	0.08	33.76	0.47	0.03
0.07	3.3	3.3	0.05	9.3	66.30	0.28	0.07	30.99	0.48	0.03
0.06	3.4	3.4	0.05	9.3	62.54	0.25	0.25	29.62	0.51	0.03
0.08	3.3	3.1	0.04	9.3	60.08	0.26	0.15	29.05	0.44	0.02
0.09	3.5	3.4	0.04	9.1	61.67	0.24	0.25	29.27	0.42	0.02
0.09	3.2	3.3	0.06	9.2	60.03	0.24	0.21	28.34	0.42	0.03
0.1	3.5	3.2	0.06	9.2	62.70	0.26	0.23	29.79	0.38	0.03
0.07	3.3	3.2	0.05	9.2	61.00	0.26	0.29	29.27	0.42	0.03
0.07	3.3	3.3	0.04	9.1	59.03	0.24	0.11	29.01	0.36	0.03
0.08	3.5	3.3	0.03	9.1	60.13	0.24	0.17	28.73	0.39	0.03
0.1	3.4	3.3	0.05	9.2	60.33	0.25	0.17	29.25	0.38	0.03
0.08	3.7	3.7	0.06	9.1	58.46	0.24	0.14	28.71	0.47	0.02
0.07	3.5	3.6	0.07	8.9	59.33	0.23	0.28	29.64	0.43	0.02
0.11	3.1	3.3	0.06	8.9	62.03	0.26	0.31	30.83	0.40	0.02
0.08	3.2	3.3	0.08	9	60.14	0.25	0.25	30.03	0.41	0.02

0.11	4	3.9	0.07	9.2	58.78	0.25	0.24	28.78	0.41	0.02
0.09	3.8	4	0.08	9.2	64.01	0.27	0.19	31.47	0.47	0.03
0.09	3.9	3.7	0.1	9.3	63.13	0.28	0.22	31.41	0.59	0.03
0.1	3.5	3.6	0.05	9.3	59.45	0.26	0.17	29.95	0.53	0.03
0.18	4.3	4.3	0.03	9.2	58.28	0.26	0.14	29.30	0.71	0.03
0.08	4.4	4.1	0.02	9.3	59.81	0.25	0.23	29.78	0.60	0.03
0.1	4.3	4	0.04	9.2	60.55	0.26	0.21	30.51	0.66	0.03
0.08	4	3.8	0.03	9.1	61.75	0.25	0.17	31.13	0.70	0.04
0.1	3.5	3.4	0.28	9.2	61.28	0.24	0.21	30.50	0.65	0.04
0.1	3.2	3.2	0.17	9.2	59.15	0.23	0.20	29.48	0.62	0.03
0.09	3.6	3.6	0.14	9.2	61.85	0.31	0.18	31.42	0.41	0.03
0.07	4	3.6	0.06	9.1	62.40	0.30	0.19	31.09	0.49	0.03
0.08	3.6	3.6	0.09	9.1	57.16	0.28	0.22	28.50	0.55	0.03
0.08	3.5	3.4	0.13	9.1	57.11	0.29	0.24	28.70	0.57	0.03
0.08	3.4	3.3	0.02	9	61.70	0.30	0.24	30.81	0.68	0.04
0.07	3.4	3.3	0.03	9.1	59.66	0.30	0.23	30.24	0.62	0.04
0.07	3.3	3.2	0.03	9.1	56.97	0.29	0.24	29.64	0.66	0.04
0.07	3.4	3.2	0.04	9.1	52.96	0.22	0.21	26.82	0.56	0.03
0.08	3.4	3.3	0.04	9.1	53.32	0.25	0.20	27.08	0.69	0.04
0.07	3.6	3.6	0.05	8.9	50.82	0.23	0.17	26.11	0.49	0.04
0.08	3.7	3.4	0.04	8.8	54.14	0.24	0.17	27.07	0.50	0.03
0.08	3.5	3.4	0.03	8.8	50.25	0.23	0.19	26.28	0.39	0.02
0.07	3.4	3.3	0.04	8.9	50.23	0.24	0.20	26.50	0.36	0.02
0.17	3.3	3.5	0.05	9	64.19	0.37	0.20	31.44	0.25	0.02
0.17	3.7	3.6	0.1	9	75.46	0.48	0.27	37.32	0.22	0.03
0.14	3.6	3.5	0.07	9	75.85	0.14	0.30	40.00	0.33	0.35
0.11	3.5	3.4	0.08	8.9	75.27	0.65	0.28	40.25	0.33	0.05
0.11	3.5	3.5	0.09	9.1	72.44	0.68	0.24	39.64	0.34	0.05
0.14	3.4	3.4	0.11	9.2	65.71	0.63	0.31	38.17	0.35	0.04
0.12	3.4	3.4	0.1	9.2	63.18	0.64	0.26	37.24	0.32	0.05
0.12	3.5	3.4	0.07	9.1	59.35	0.66	0.26	37.19	0.36	0.05
0.07	4.1	3.6	0.07	9	43.10	0.37	0.22	32.26	0.34	0.05
0.06	3.7	3.6	0.08	9.1	34.47	0.28	0.28	30.39	0.52	0.06
0.07	3.3	3.3	0.08	9	36.11	0.23	0.15	29.97	0.60	0.06
0.06	3.5	3.3	0.07	9.1	34.38	0.23	0.27	30.08	0.82	0.05
0.06	3.5	3.2	0.06	9.3	32.90	0.23	0.16	29.77	0.77	0.07
0.06	3.5	3.2	0.06	9.3	32.90	0.23	0.21	29.64	0.95	0.05
0.07	3.5	3.2	0.07	9.3	32.45	0.27	0.15	29.41	0.93	0.06
0.07	3.3	3.3	0.08	9	31.41	0.27	0.18	29.91	0.94	0.05
0.07	3.3	3	0.09	9	30.84	0.25	0.22	30.57	0.92	0.05
0.07	3.2	3.1	0.09	9.3	60.64	0.23	0.23	29.97	0.97	0.06
0.07	3.5	3.4	0.15	8.9	27.73	0.25	0.15	29.91	0.82	0.06
0.08	3.6	3.4	0.09	8.9	28.64	0.24	0.20	30.34	1.06	0.05
0.08	3.8	3.7	0.1	8.9	26.98	0.25	0.25	29.88	0.96	0.05
0.09	3.8	3.6	0.08	8.8	26.37	0.24	0.24	29.76	0.80	0.05
0.08	3.8	3.8	0.07	8.9	25.56	0.21	0.23	29.48	0.68	0.05
0.08	3.6	3.3	0.19	8.7	24.93	0.22	0.22	29.45	0.57	0.05
0.07	3.9	3.7	0.17	8.9	25.01	0.22	0.22	29.10	0.62	0.05
0.08	3.7	3.6	0.09	9	24.90	0.24	0.20	28.96	0.59	0.05
0.08	3.5	3.3	0.07	9	25.01	0.23	0.21	28.50	0.57	0.05
0.08	3.7	3.6	0.06	9.4	26.73	0.25	0.21	29.13	0.71	0.05
0.08	3.9	3.6	0.07	9.3	25.23	0.22	0.20	28.12	0.64	0.05
0.08	3.7	3.5	0.09	9.3	27.78	0.27	0.29	30.18	0.97	0.05
0.1	3.7	3.4	0.09	8.9	26.29	0.34	0.30	30.47	0.91	0.06
0.09	3.6	3.3	0.09	9.2	27.37	0.31	0.30	30.48	1.05	0.06

0.09	3.7	3.3	0.09	9.3	26.87	0.29	0.31	31.16	0.95	0.06
0.09	3.7	3.5	0.13	9.1	27.13	0.31	0.31	31.40	0.98	0.06
0.08	3.7	3.6	0.12	9.4	27.17	0.35	0.35	31.60	0.91	0.06
0.09	3.8	3.7	0.12	9.2	28.18	0.34	0.39	31.98	0.95	0.07
0.09	4	3.8	0.14	9.1	27.25	0.31	0.39	31.44	0.96	0.07
0.11	3.4	3.2	0.12	8.7	28.46	0.31	0.24	30.25	0.80	0.06
0.09	3.6	3.3	0.13	9.1	28.07	0.37	0.28	31.00	0.66	0.06
0.09	4	3.7	0.13	9.1	27.53	0.37	0.26	30.92	0.65	0.06
0.09	3.8	3.8	0.12	9	26.25	0.35	0.24	30.89	0.64	0.06
0.09	3.9	3.7	0.13	9.1	25.63	0.36	0.31	30.73	0.70	0.05
0.08	3.8	3.6	0.14	9.2	25.40	0.32	0.25	30.51	0.70	0.06
0.07	3.9	3.8	0.1	9.4	25.24	0.36	0.31	30.24	0.70	0.06
0.1	3.9	3.7	0.12	8.8	24.71	0.34	0.26	30.01	0.73	0.05
0.09	3.9	3.6	0.12	8.5	24.95	0.32	0.26	30.31	0.67	0.05
0.1	3.6	3.7	0.13	9						
0.09	3.7	3.4	0.11	9.1						
0.09	9.8	3.5	0.09	9.1						
0.09	3.7	3.4	0.09	9.2						
0.08	3.9	3.4	0.11	9.3						
0.1	3.6	3.3	0.17	9.1						
0.1	3.7	3.2	0.14	9.3						
0.1	3.4	3.2	0.12	8.5						
0.1	3.4	3.2	0.08	9						
0.09	3.6	3.5	0.08	9.2						
0.1	3.5	3.4	0.09	9.3						
0.1	3.3	3.1	0.1	9.3						

1	1	1/day 2/month	1/day 2/month	3
TOC (ppm)	<i>E. coli</i> (MPN)	Crypto oocysts/l	Giardia cysts/l	Temp

0	0	0	9.3
0			8.1
0			8.8
0			10.6
0			10
0			10
0			8.4
0			9.1
0			8.2
0			6.7
0			6.3
0			6.4
0			8
0			7.6
0			6.9
0			6.4
0			7.4
0			8.2
0			10.5
0			10.5
0			11.9
0			13.3
0			13.7
0			14.6
0			14.3
0			13.7
0			14.4
0			13.6
0			12.1
0			11.8
0	0	0	10
0			10.6
0			12.5
0			13.8
0			8.9
0			8.8
0			9.4
0			10.2
0			10.2
0			13
0			12
0			11.3
0			12.7

	0	0	0	13.5
2.4	0			21.1
	0			21
	0			21.7
2.35	0	0	0	22.7
	0			23
2.5	0			22.9
	0			23.1
2.27	0	0	0	23.7
	0			23.6
	0			23.3
2.61	0			23.8
	0			23.2
2.82	0			23.1
	0			23.9
2.91	0			24.3
	0			24.8
	0			25
3	0			25.6
	0			25.7
2.72	0	0	0	25.9
	0			27.2
2.85	0			26.7
	0			25.8
	0			26.7
2.97	0	0	0	24.9
	0			23.8
2.88	0			25
	0			25.3
3.03	0			26.1
	0			25.6
5.10	ND			25.1
4.18	ND			26.3
3.30	ND			27
2.90	ND			26.7
2.66	ND			27.9
2.72	ND			27.5
2.84	ND	<0.008	<0.008	26.3
2.83	ND			25.2
2.83	ND			25.4
2.83	ND			24.6
2.76	ND			24.5
2.60	ND			25.6
2.77	ND			26.4
2.75	ND			26.5
2.85	ND			26.9
2.77	ND			27.6
2.94	ND			28
2.71	ND			27.9
2.79	ND			29.2
2.71	ND			28.3
2.63	ND			26.4
2.65	ND			25.6

2.72	ND			26
2.66	ND			25.8
2.72	ND			25.9
2.86	ND			26.9
2.82	ND			26.4
2.93	ND	<0.002	<0.002	26.8
2.85	ND			30.4
2.81	ND			28
2.88	ND			27.4
2.78	ND			27.4
2.77	ND			28.3
2.90	ND			27.8
2.93	ND			27.8
2.89	ND			28.1
2.73	ND			27.1
2.99	ND			28.6
2.79	ND			27.3
2.60	ND			27.5
2.67	ND			27.7
2.78	ND	<0.006	<0.006	27.8
2.69	ND			27.4
2.68	ND			28.5
2.70	ND			27.6
2.72	ND			28.3
2.71	ND			28.5
2.78	ND			28.2
2.79	ND			28.4
2.74	ND			28.2
2.78	ND			27.6
2.78	ND			27.2
2.67	ND			26.9
2.63	ND			28.6
2.69	ND			29.1
2.68	ND			28.4
2.75	ND	<0.009	<0.009	27.6
2.97	ND			27.2
2.59	ND			27.1
2.76	ND			25.1
2.67	ND			25.9
2.50	ND			26.2
2.55	ND			28.1
2.49	ND			26.9
2.59	ND			25.6
2.69	ND			24.5
2.75	ND			22.3
2.72	ND			23.1
2.93	ND			24.1
2.80	ND	<0.010	<0.010	24.4
2.68	ND			24.4
3.11	ND			25.4
3.25	ND			25.5
2.96	ND			26.4
2.99	ND			26
3.14	ND			25.1
2.97	ND			24.3

3.46	ND			25.2
2.83	ND			24.1
3.00	ND			24.1
3.20	ND			24
3.09	ND			24.8
3.06	ND			24.8
3.43	ND			24.5
3.03	ND			25
3.06	ND			24.7
3.06	ND			23.2
3.12	ND			23.1
3.11	ND			23.3
3.08	ND			23.8
3.22	ND			24.2
3.51	ND			24.2
3.48	ND			24.2
3.40	ND			23.3
3.33	ND			21.9
3.07	ND			21.6
3.01	ND			21.5
3.12	ND			20.1
3.11	ND			21.2
3.11	ND			20.8
3.05	ND			21.2
3.01	ND			21.7
2.91	ND			21.3
2.81	ND			21.4
3.08	ND	<0.010	<0.010	22.1
3.20	ND			21.6
3.28	ND			22.3
3.05	ND			22.3
3.27	ND			22.7
3.27	ND			22.2
3.32	ND			23.3
3.17	ND			22.6
3.69	ND			20.9
2.51	ND			20.9
2.58	ND			20.3
2.61	ND			18.9
2.55	ND			19.4
2.54	ND			18.5
2.99	ND			17.9
3.61	ND	<0.008	<0.008	17.6
2.94	ND			17.8
2.92	ND			16.8
2.83	ND			18
2.80	ND			18.2
2.86	ND			18.8
2.96	ND			16.2
2.88	ND			12.2
2.83	ND			12.7
2.81	ND			11.9
2.77	ND			13.6
2.79	ND			12
2.69	ND			11.2

2.76	ND	<0.004	<0.004	11.9
2.85	ND			12.7
2.99	ND			13.5
3.29	ND			15.8
3.42	ND			16.2
3.68	ND			15.6
3.78	ND			14.5
3.95	ND			14.2
4.13	ND			14.2
4.12	ND			13.6
4.35	ND			14.5
4.47	ND			16.8
4.50	ND			16.4
4.37	ND			11.1
4.56	ND	<0.007	<0.007	12.5
4.65	ND			13.6
4.60	ND			14.1
4.65	ND			15.5
5.37	ND			15.4
5.31	ND			13.8
5.29	ND			15.7
5.40	ND			15.1
5.12	ND			15.4
4.77	ND			15.4
4.81	ND			15.8
4.79	ND			16.8
4.69	ND			16.7
5.00	ND			15.5
4.79	ND	<0.006	<0.006	14.6
4.83	ND			14
4.78	ND			14.1
4.72	ND			14.4
4.47	ND			14.3
4.54	ND			13.8
4.41	ND			14.3
5.09	ND			13.7
4.76	ND			12.7
4.89	ND			13.2
4.97	ND			13.1
4.80	ND			12.3
5.03	ND			11.6
5.19	ND			11.6
5.03	ND			11.6
5.01	ND			10.1
5.83	ND			9
5.48	ND			9.7
5.48	ND			10
5.07	ND			7.9
4.92	ND			10.4
4.84	ND	<0.007	<0.007	9.3
5.13	ND			7.9
4.85	ND			8.4
4.59	ND			8.4
4.66	ND			9.5
4.64	ND			8.4

4.28	ND			8.9
3.86	ND			8.1
3.65	ND			8.4
3.66	ND			9.3
4.55	ND			9.7
4.67	ND			8.1
4.02	ND			10.7
4.78	ND			10.7
4.43	ND	<0.006	<0.006	10.4
4.34	ND			11.4
4.75	ND			11.5
4.65	ND			12.2
4.66	ND			11.6
4.74	ND			11.4
4.86	ND			11.6
5.31	ND			13.3
5.00	ND			15.2
4.91	ND			14.1
4.62	ND			13.7
4.83	ND			12.7
4.77	ND			13.7
4.70	ND			11
4.63	ND	<0.008	<0.008	11.7
4.20	ND			11.9
4.24	ND			10.5
4.20	ND			11.6
4.25	ND			12.6
3.98	ND			14.2
4.04	ND			14.2
4.00	ND			15.7
4.71	ND			14.9
4.02	ND			14
4.19	ND			14.1
4.51	ND			15.7
4.45	ND			15.7
4.42	ND			12.1
4.43	ND	<0.007	<0.007	13.4
4.57	ND			11.9
4.54	ND			12.3
4.48	ND			13
4.52	ND			13.9
4.47	ND			13.1
4.56	ND			11.3
4.73	ND			11
4.91	ND			10.8
5.17	ND			10.5
4.98	ND			8.1
4.95	ND			10
4.85	ND			8.4
4.93	ND			9.4
5.26	ND	<0.006	<0.006	9.1
5.19	ND			9.8
5.01	ND			9.1
4.90	ND			10.3
4.83	ND			10.9

4.71	ND			12.3
4.57	ND			13.6
4.40	ND			13.4
4.53	ND			14.9
4.92	ND			13.7
4.59	ND			14.7
4.59	ND			15.5
4.73	ND			17.4
4.18	ND			17.2
4.10	ND	<0.008	<0.008	17.1
4.06	ND			16.3
4.14	ND			16.8
4.00	ND			
3.69	ND			16.6
3.61	ND			16.5
3.71	ND			17.3
3.61	ND			18
3.59	ND			18.9
3.34	ND			17.4
3.36	ND			17.3
3.26	ND			17.8
3.35	ND			19.3
3.29	ND			20.6
3.28	ND			19.6
3.16	ND			19.6
3.03	ND			21.1
3.09	ND			20.6
3.01	ND			19
2.94	ND			19.1
3.27	ND			19.7
2.95	ND	<0.008	<0.008	20.5
2.89	ND			20.6
2.70	ND			21
2.57	ND			19.5
2.73	ND			21.3
2.65	ND			20.9
2.64	ND			20.5
2.64	ND			19.9
2.70	ND			19.3
2.82	ND			20
2.88	ND			20.1
2.90	ND			19.9
2.67	ND			19.9
2.59	ND			18.7
2.77	ND	<0.006	<0.006	19.7
2.66	ND			19.8
2.79	ND			20.4
2.69	ND			20.5
2.50	ND			21.6
2.67	ND			21.1
2.53	ND			19.8
2.65	ND			19
2.56	ND			20.1
2.69	ND			19.6
2.63	ND			20.3

2.76	ND			20.4
2.59	ND			21.2
2.69	ND			22.4
2.54	ND	<0.005	<0.005	21.4
2.58	ND			23.2
2.55	ND			21
2.53	ND			21.5
2.68	ND			21.9
2.68	ND			22.6
2.64	ND			21.1
2.74	ND			20.9
2.79	ND			20.9
2.65	ND			21.9
2.44	ND			22.1
2.66	ND			21.9
2.41	ND			23.2
2.35	ND			22.9
2.27	ND	<0.008	<0.008	23.2
2.18	ND			22.4
2.03	ND			21.2
2.40	ND			20.5
2.37	ND			21.3
2.31	ND			20.7
3.05	ND			21.4
3.50	ND			21.2
3.40	ND			22
3.23	ND			22.1
3.02	ND			22.1
3.00	ND			21.9
2.90	ND			22.8
2.96	ND			23
2.24	ND			23.4
1.81	ND			23.5
1.58	ND			22
1.73	ND			24
1.54	ND			25.3
1.48	ND			24.5
1.46	ND			26.1
1.74	ND	<0.006	<0.006	25.6
1.59	ND			26.2
1.49	ND			25.9
1.57	ND			25.8
1.75	ND			24.8
1.60	ND			24.8
1.54	ND			24.3
1.49	ND			25
1.49	ND			24.7
1.41	ND			24.6
1.43	ND			24.9
1.56	ND			26.4
1.42	ND			25.5
1.45	ND			25.7
1.51	ND	<0.006	<0.006	25.7
1.57	ND			26.8
1.58	ND			27.7

1.62	ND			27
1.67	ND			26.5
1.77	ND			26.5
1.79	ND			26.9
1.95	ND			27.1
2.09	ND			27.6
2.17	ND			27.3
2.09	ND			26.3
1.95	ND			26.9
1.98	ND			26.8
1.97	ND			27
1.97	ND	<0.010	<0.010	27
1.92	ND			27
1.96	ND			25.6
1.87	ND			26.9
1.87	ND			25.7
1.88	ND			27.7
1.74	ND			28.3
1.81	ND			28.3
1.94	ND			28.9
1.97	ND			28.7
1.89	ND			28.3
	ND			28.2
	ND			29.1
	ND			27.8
	ND			26