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MEMORANDUM

TO:	**Darren Gore, P.E., Murfreesboro Water and Sewer Department**
CC:	Steve Tate, MWSD
	John Strickland, MWSD
	Mike Bernard, P.E., Smith Seckman Reid, Inc.
	Kenny Diehl, P.E., SSR
FROM:	John Michael Corn, P.E. and Mike Corn, P.E., BCEE
DATE:	June 24, 2016
JOB NO.:	152384
RE:	**Total Biochemical Oxygen Demand Test Results**

The following memo details the results of the time-series biochemical oxygen demand (BOD) tests that were completed for MWSD and previously reported in the overall study report.

INTRODUCTION

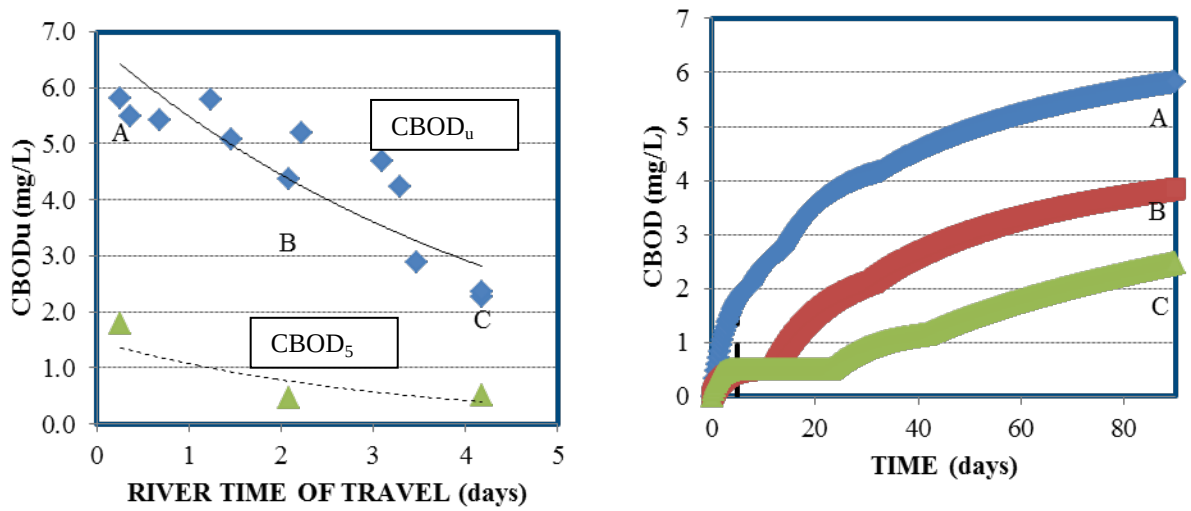
The ultimate carbonaceous- and nitrogenous-biochemical oxygen demand is measured by conducting time-series biochemical oxygen demand (BOD) tests. The total BOD (TBOD) measured during the test can be speciated into ultimate carbonaceous BOD ($CBOD_u$) and nitrogenous BOD (NBOD), as well as, immediate oxygen demand (IOD) that is caused by either algal respiration or chemical oxygen demand that either can be asserted within the first 12 hrs of the time-series BOD test. The ratio of $CBOD_u$ to the 5-day BOD (BOD_5), called the f-ratio, can also be determined. This f-ratio is then used to convert a $CBOD_u$ to a regulatory-used BOD_5 concentration for setting permit discharge limits. In reality, BOD_5 as measured in the bottle does not exist in the real environment and it is the $CBOD_u$ that results in the oxygen demand in the natural setting. In Biological Waste Treatment (Eckenfelder & O'Connor, 1961) distinguished between the bottle rate and the river rate as seen in Figure 1.

As shown graphically in Figure 1, collecting samples at point A (close to the source) and at points B and C downstream will show the loss of BOD in the system with time of travel downstream. The CBOD loss as a function of river distance (time of travel) is then given by the curve described by the points A through C, which is a first-order exponential curve. This curve represents losses both from decay and potentially from settling. The settling rate can only affect the particulate present in the system.

The different fractions that can be found in the laboratory test decay at different rates in the stream. It is possible that the fraction of the $CBOD_u$ that exists as $CBOD_5$ and the fraction of the CBOD that was measured in the period between 5 and 30 days in the bottle will both be

reduced at the same time at nearly the same rate in the natural environment (Corn, Sielbeck, Rogers V, Carmean, & Corn, November 2015). A river decay rate can be determined by collecting samples within the same mass of water as it moves downstream. The MWSD previously sponsored a study to determine the stream BOD deoxygenation rate for waste assimilative capacity determination of the West Fork Stones River for assisting TDEC in establishing the wasteload allocation for the West Fork Stones River. This will be discussed in detail below.

Figure 1. Comparison of the River Rate of CBODu and CBOD5 Compared to the Bottle Rates



In the long-term BOD test, the bottle may show several independent, discernible BOD rates as different components are degraded, including both nitrogenous and carbonaceous oxygen demanding substances. However, when following the same slug of water downstream, the identification of these different rates within the overall change in the total mass is arbitrary. Considering the points, A, B, and C, presented previously in Figure 2 - 2, these samples represented a sample collected at a point close to an outfall that was well mixed in the River (A), and the subsequent samples collected at approximately days 2 and 4. For each sample, one can break down the carbonaceous BOD into the following three groups: 1) 0 to 5 day; 2) greater than 5 to 30 days; and, 3) greater than 30 to 90 days. The results from samples A, B, and C are presented in Table 1.

The rate developed for each category is based on the Lagrangian method of collecting data with time of travel. This system was a controlled system that was not at steady state conditions. If samples had been collected at specific locations on pre-determined intervals, the slug of water would have been missed. The main takeaway from this is that there comes a point downstream from a loading where the BOD_5 does not change. The system comes back to a balance between the loadings from upstream and the internal loadings from the natural processes within the water.

Table 1. Example of CBOD Decay with Time of Travel and Decay Rate for Each

SAMPLE NAME (TIME OF TRAVEL, days)	CBOD 0 to 5 days (mg/L)	CBOD >5 to 30 days (mg/L)	CBOD >30 to 90 days (mg/L)	$CBOD_u$ (mg/L)
A (0.25)	1.8	2.3	1.7	5.8
B (2.1)	0.5	1.6	1.8	3.8
C (4.2)	0.5	0.4	1.6	2.5
Rate at 32.2°C (day^{-1})	0.317	0.456	0.025	0.218
Rate at 20°C (day^{-1})	0.181	0.260	0.014	0.124
r^2	0.67	0.92	0.688	0.999

METHODOLOGY

A water sample is collected in a 5-gallon Nalgene® carboy. Samples collected by the field crew were set up immediately in the field or at the AquAeTer laboratory. All samples were stored at the AquAeTer laboratory for the 90-day test. All bottle storage areas were kept at 20°C.

The 5-gallon carboy was shaken vigorously to aerate the samples to near saturation. The lid was then opened without removing it to allow the sample to equilibrate for five minutes. The sample was carefully siphoned into the bottom of two 2 liter (L) glass BOD bottles. After the BOD bottle was full, the DO was measured. If the DO concentration in the two bottles was greater than +/- 0.2 mg/L (the accuracy of the DO measurement), the process was restarted. Samples for nutrient analysis were then collected from the 5-gallon carboy. The nutrients analyzed at time zero were total Kjeldahl nitrogen (TKN), ammonia-nitrogen (NH_3), nitrite+nitrate-nitrogen (NO_2+NO_3), total phosphorus (TP), and ortho-phosphate (PO_4). The remaining sample was then siphoned to a glass 5-gallon carboy. The sample in the glass carboy was used as make-up water and to collect periodic nutrient samples.

The make-up water is intended to replace water lost during periodic DO readings and due to evaporation. Make-up water was transferred to the BOD bottles using a disposable plastic pipette.

After time-zero readings were taken from the two duplicate samples and the lost volume was carefully replaced in the sample (minimizing oxygen addition), both samples were sealed with air-tight caps to prevent DO exchange. All samples, once back in the laboratory in Brentwood, were kept in incubators set at a temperature of 20°C.

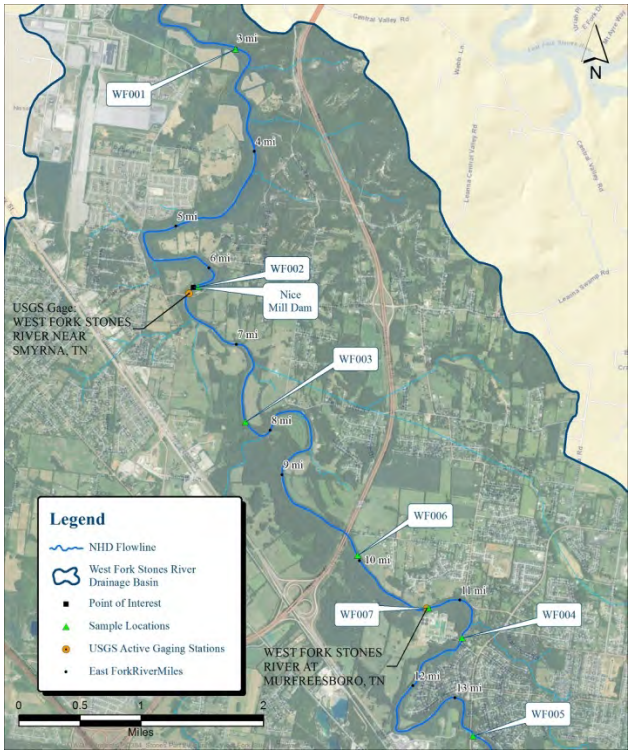
No inhibitors for nitrogen inhibition were used since both organic and inorganic nitrogen decay was also measured during the tests and the fact that both Nitrosomonas and Nitrobacter bacteria also may uptake carbonaceous BOD. No sample dilutions were made since effluent BODs were expected to be extremely low.

All samples were run for at least 90 days. Periodic dissolved oxygen measurements were made using a YSI 5100 DO meter. Each meter was calibrated before and after each reading day. If samples approached 3.0 mg/L DO, the remaining sample from Bottle A, B and the matching make-up water bottle was transferred to a 5-gallon carboy where it was reaerated using the same process as mentioned previously. At a DO of less than 2 mg/L, the bacterial population in the bottles may begin to become anoxic and this will affect the total oxygen uptake for the test. The anoxic condition slows the metabolic rates compared to the aerobic condition. The bacterial population may take a while to recover, which introduces an error into the test.

SAMPLE LOCATIONS

Sample locations included the stations on the West Fork Stones River labeled WF003, WF004 and a sample from the Sinking Creek Wastewater Treatment Plan (SCWWTP) effluent. One sample, WF003, is located downstream from the SCWWTP outfall. The other sample, WF004, is located upstream from the SCWWTP.

Each sample collected from the WFSR was collected from the riverine portion of the River.



RESULTS - TBOD

A summary of the results for all Time-Series BOD tests is provided in Table 2. The ratio of the ultimate carbonaceous biochemical oxygen demand ($CBOD_u$) and the 5-day BOD (BOD_5) are also provided. Various curves can be derived from the Time-Series BOD tests, which represent the various rates that the

food is consumed by the bacterial populations. This is an artifact of the laboratory test. In the natural environment, the bacterial populations will consume the food that is available, so that in the River the materials consumed in the first 5 days in the bottle may be consumed at the same time as the materials consumed over the first 30 days. In keeping with this, a rate developed from a bottle is not valid for use in the river setting. Murfreesboro has previously measured the $CBOD_u$ in the West Fork Stones River, but these measurements were before increased treatment efficiencies were implemented. All sample results are provided in Attachment 1.

Table 2. Summary of Results

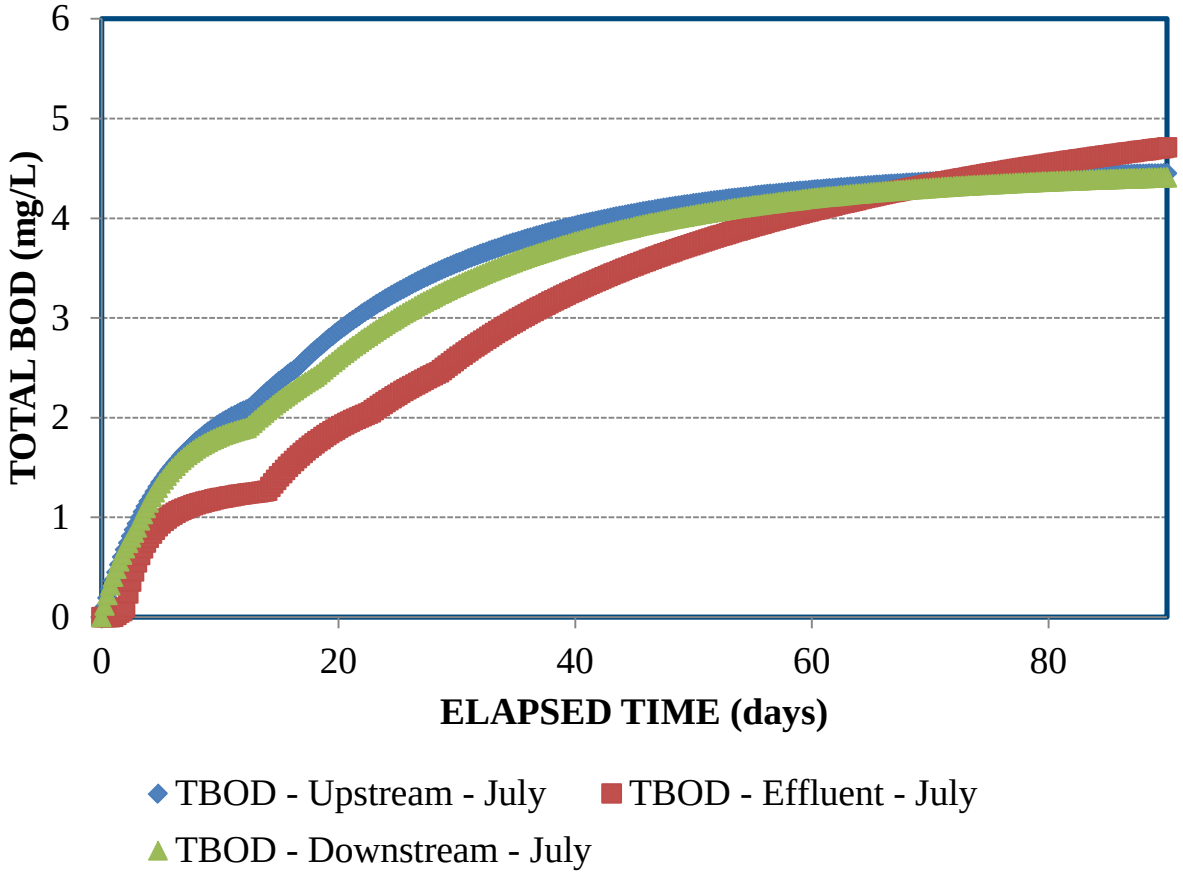
COLLECTION DATE	SAMPLE	LOCATION	TBOD (mg/L)	$CBOD_u$ (mg/L)	F-RATIO	NBOD (mg/L)
July 29, 2015	WFSRDown	WF003	4.4	3.5	2.6	0.9
	WFSREff	WWTP	4.7	3.2	3.4	1.5
	WFSRUP	WF004	4.4	3.9	2.9	0.5
August 27, 2015	WFSRDown	WF003	3.3	2.4	3.0	0.9
	WFSREff	WWTP	7.1	5.3	5.7	1.8
	WFSRUP	WF004	4.0	3.3	2.9	0.7
September 28, 2015	WFSRDown	WF003	5.0	4.3	4.8	0.7
	WFSREff	WWTP	4.4	4.0	6.0	0.5
	WFSRUP	WF004	4.0	3.4	4.2	0.6
	WFSRUP-D	WF004	4.0	3.3	4.1	0.7

Note: (D) Represents a duplicate sample

<u>July 2015 Samples</u>

The total BOD for the samples collected in July is presented in Figure 2. This graph shows that the SCWWTP effluent was not having an effect on the TBOD in the stream. The upstream and downstream samples were almost identical. The breakdown of the curves for each sample is presented in Figures 3 through 5. The breakdown identifies the various components of the individual BOD curves that could be discerned in the bottle. It is noted that these are not going to be discernible in a time of travel study that measures the overall River rates. It is also noted that the NBOD measured in the bottle is not likely to occur in the River due to competing sources for the nutrients.

Figure 2. Total BOD Measured for Samples in July



The above paragraph demonstrates the total biochemical oxygen demand. The largest takeaway from this graph is that the SCWWTP discharge is at the same concentration of potential oxygen demand as the background water.

The following graphs show the component breakdown for each sample individually. The blue rhombi represent the BOD derived from the measurements of dissolved oxygen. The squares represent the nitrogenous BOD based on the increase in nitrate in the bottle over time. Each dashed or broken line represents the individual component that could be determined based on the different measurements, with the solid red line representing the sum of all individual components.

Figure 3. BOD Measured for SCWWTP in July

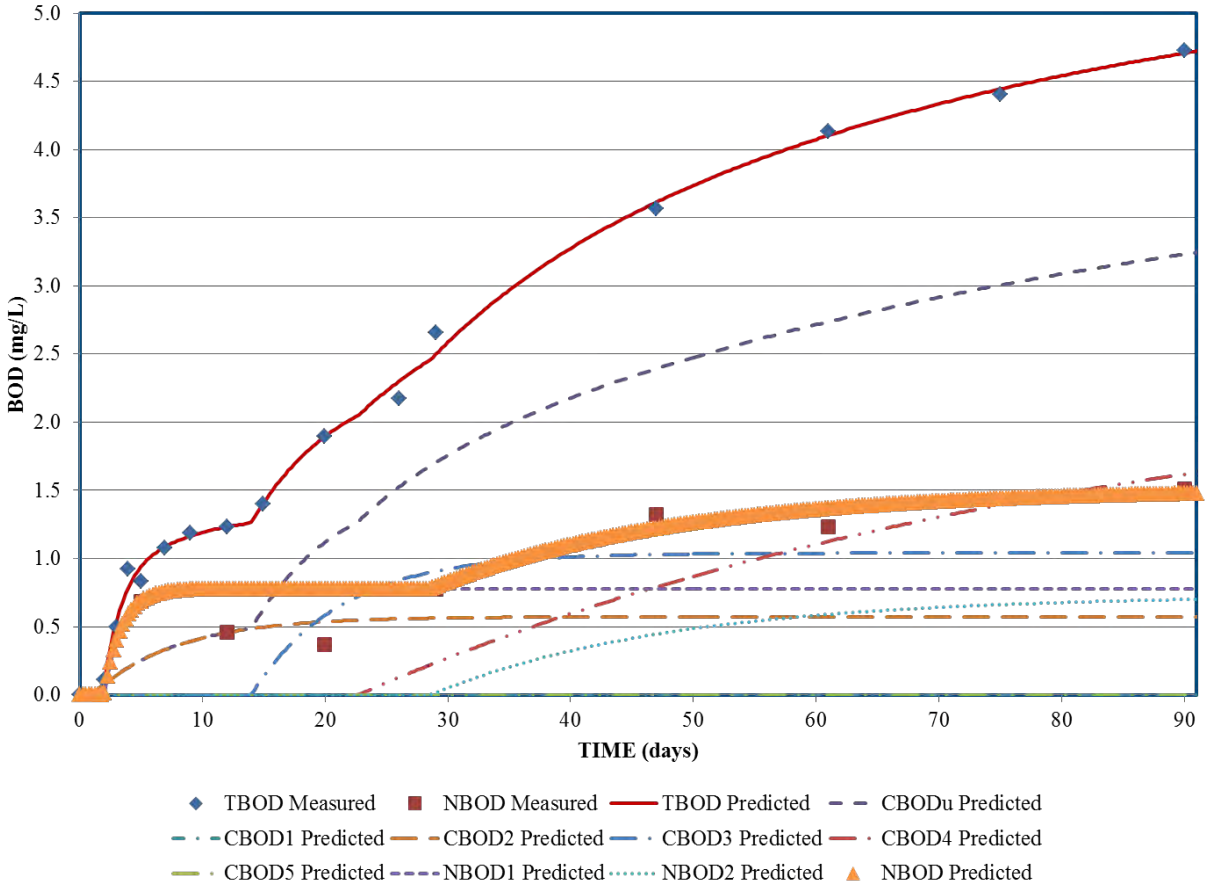


Figure 4. BOD Measured in the WFSR Downstream from SCWWTP in July

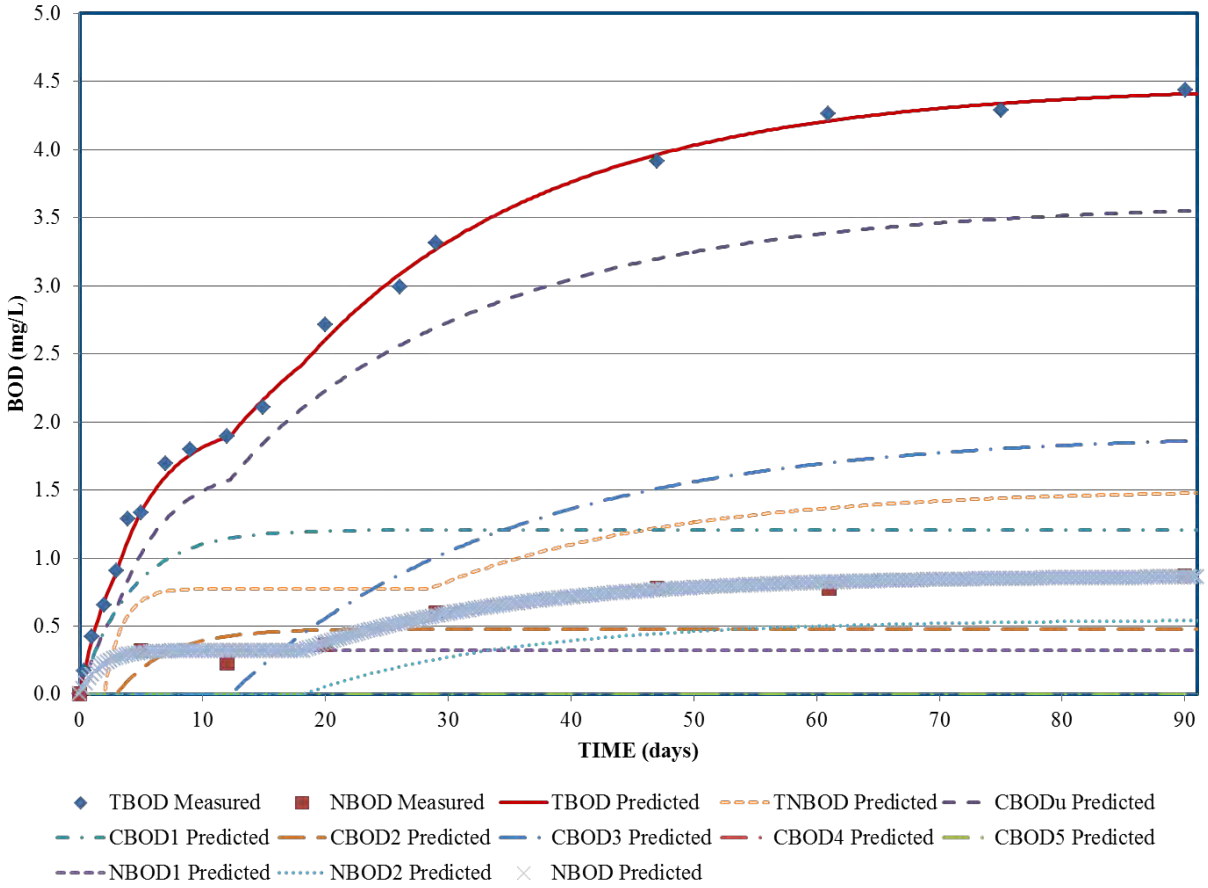
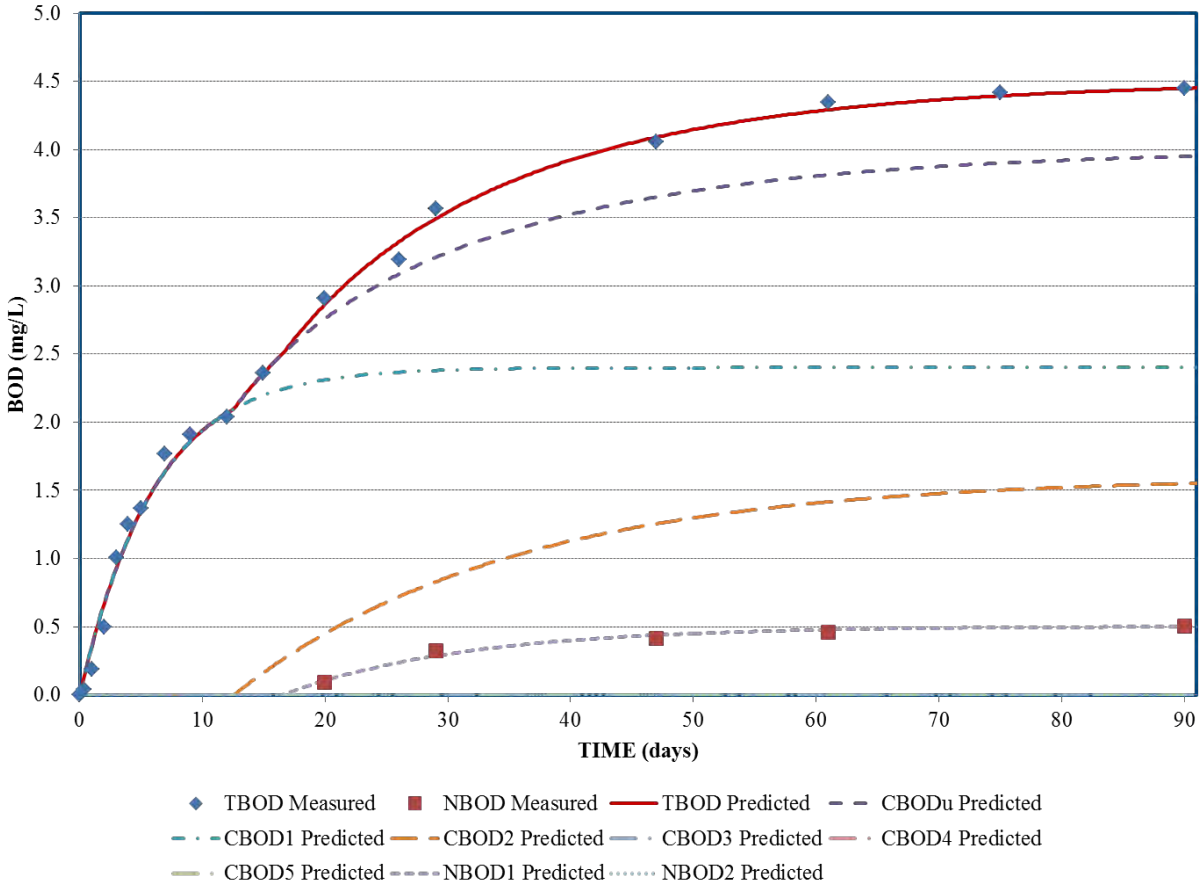


Figure 5. BOD Measured in the WFSR Upstream from SCWWTP in July



August 2015 Samples

The total BOD for the samples collected in August is presented in Figure 6. This graph shows that the SCWWTP effluent was not having an effect on the TBOD in the stream. The upstream and downstream samples were similar, with the downstream TBOD being slightly less than the upstream TBOD. The breakdown of the curves for each sample is presented in Figures 7 through 9. The breakdown identifies the various components of the individual BOD curves that could be discerned in the bottle. It is noted that these are not going to be discernible in a time of travel study that measures the overall River rates. It is also noted that the NBOD measured in the bottle is not likely to occur in the River due to competing sources for the nutrients.

Figure 6. Total BOD Measured for Samples in August

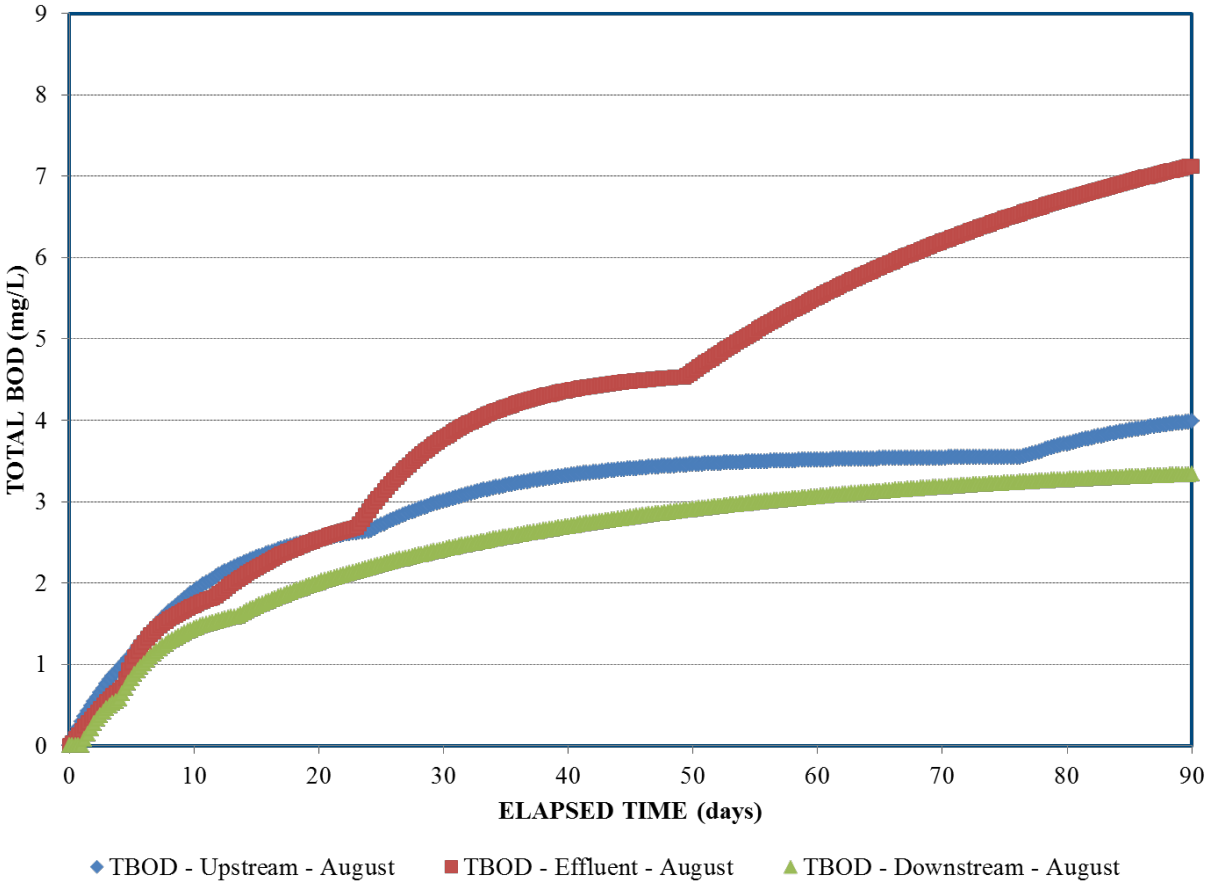


Figure 7. BOD Measured for SCWWTP in August

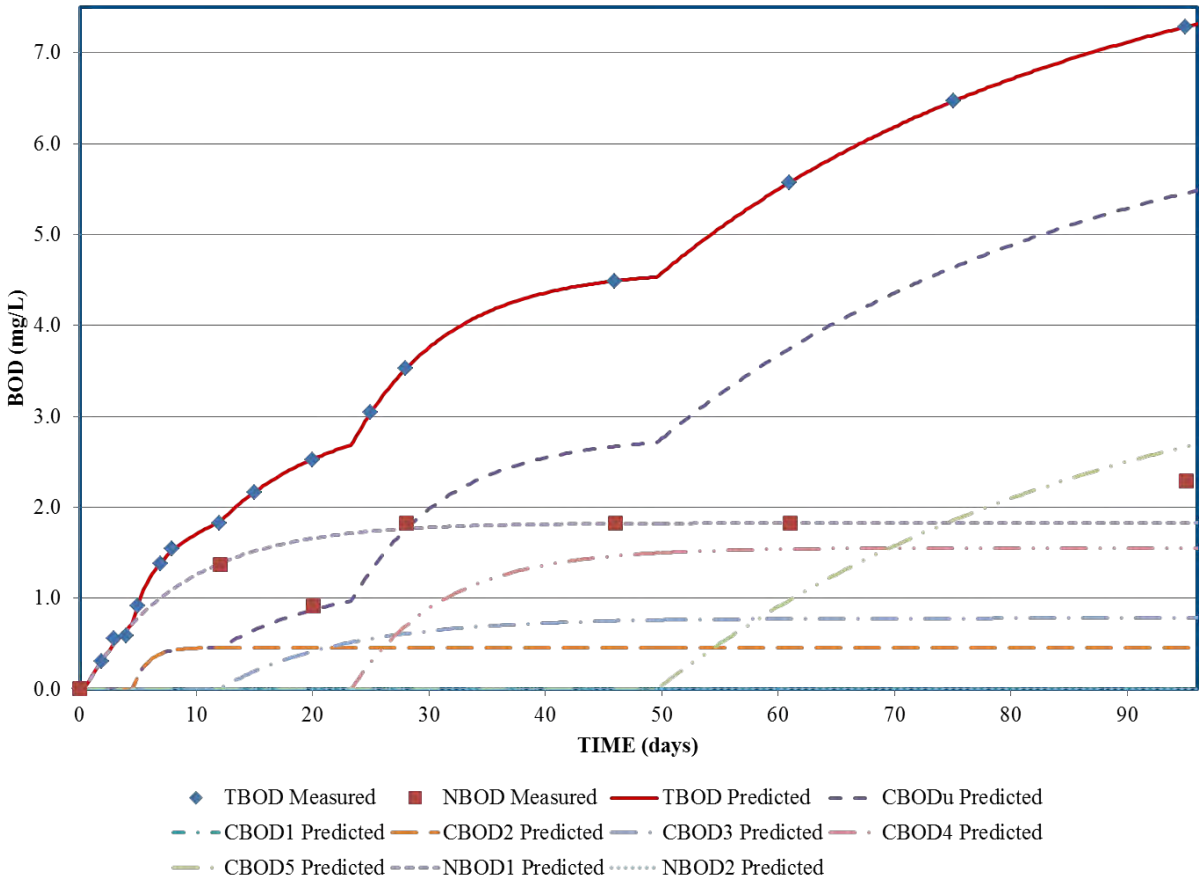


Figure 8. BOD Measured in the WFSR Downstream from SCWWTP in August

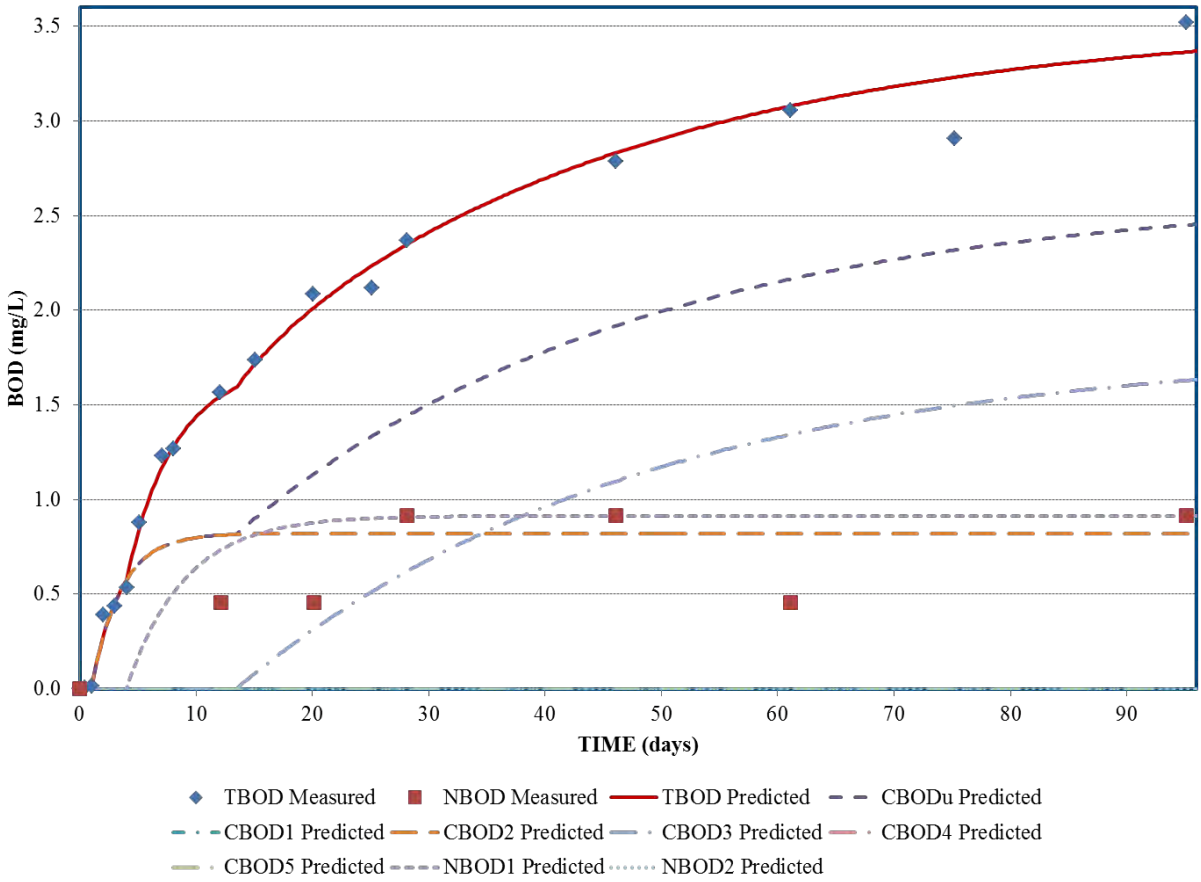
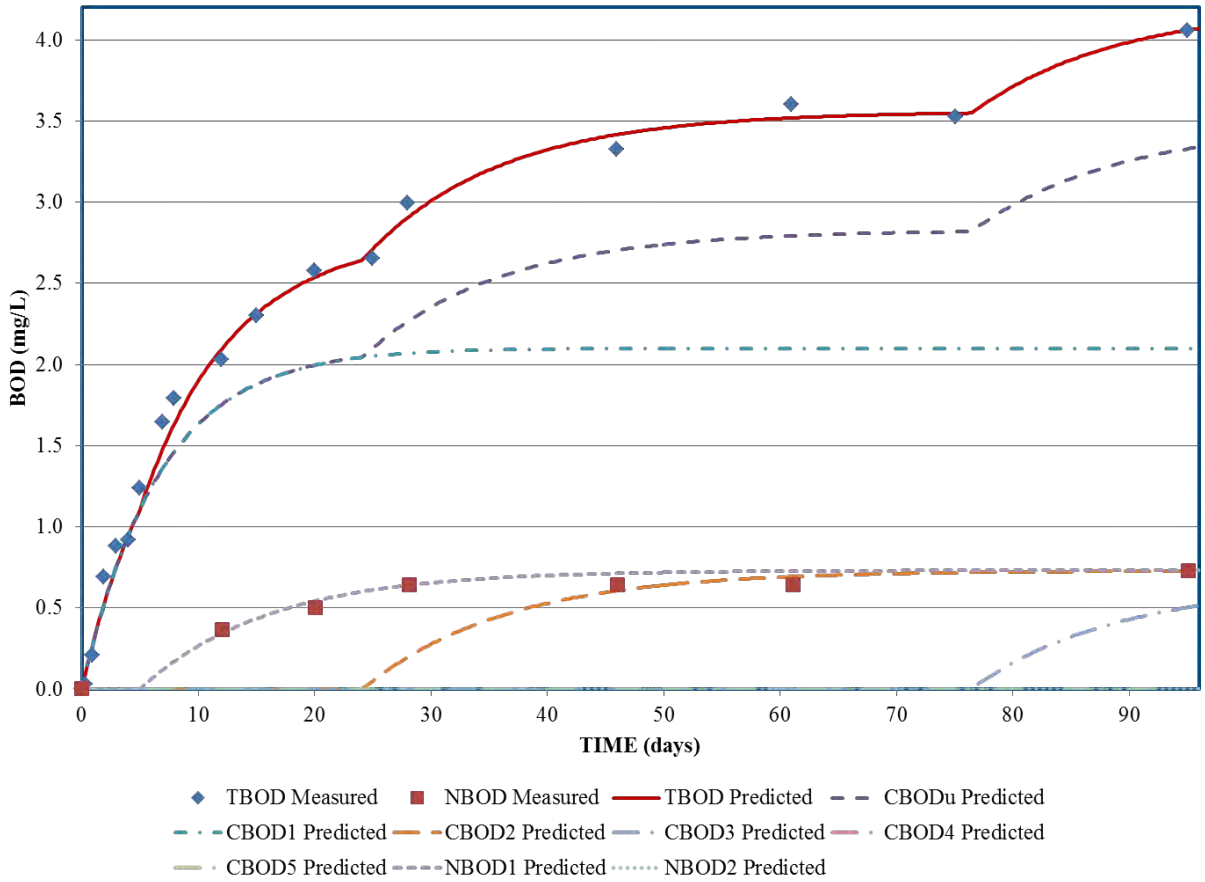


Figure 9. BOD Measured in the WFSR Upstream from SCWWTP in August



September 2015 Samples

The total BOD for the samples collected in September is presented in Figure 10. This graph shows that the SCWWTP effluent was potentially affecting the TBOD in the downstream sample, although the TBOD in the downstream sample was higher than the SCWWTP TBOD. The duplicate sample collected from the upstream location showed good agreement. The breakdown of the curves for each sample is presented in Figures 11 through 14. The breakdown identifies the various components of the individual BOD curves that could be discerned in the bottle. It is noted that these are not going to be discernible in a time of travel study that measures the overall River rates. It is also noted that the NBOD measured in the bottle is not likely to occur in the River due to competing sources for the nutrients.

Figure 10. Total BOD Measured for Samples in September

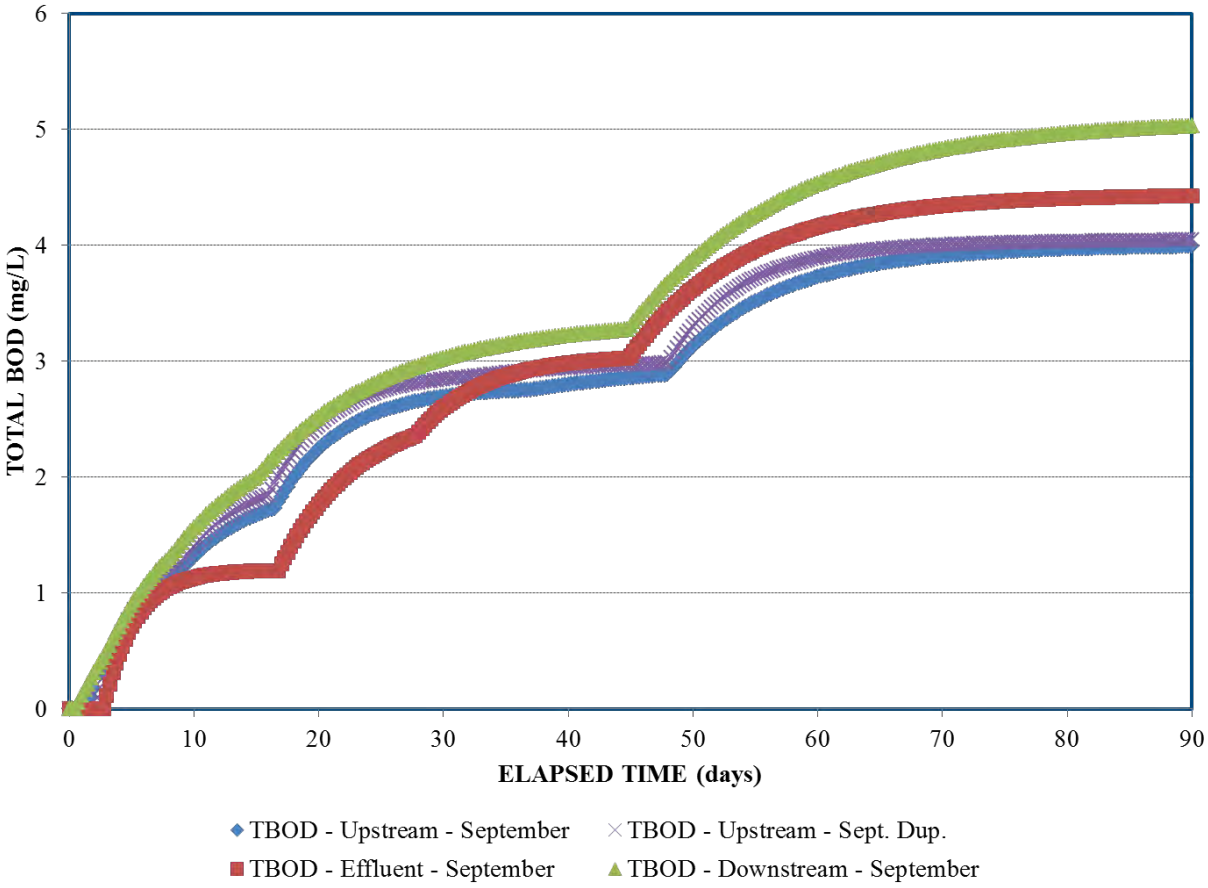


Figure 11. BOD Measured for SCWWTP in September

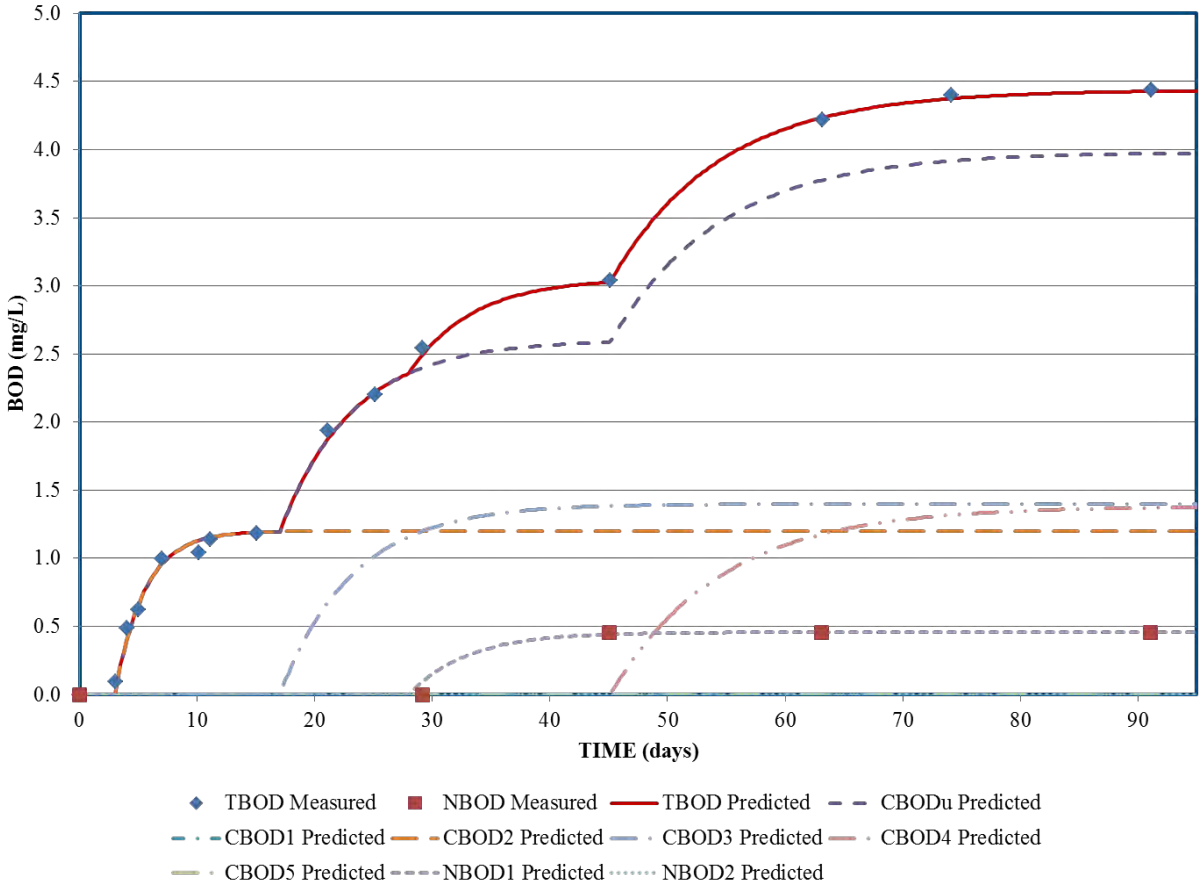


Figure 12. BOD Measured in the WFSR Downstream from SCWWTP in September

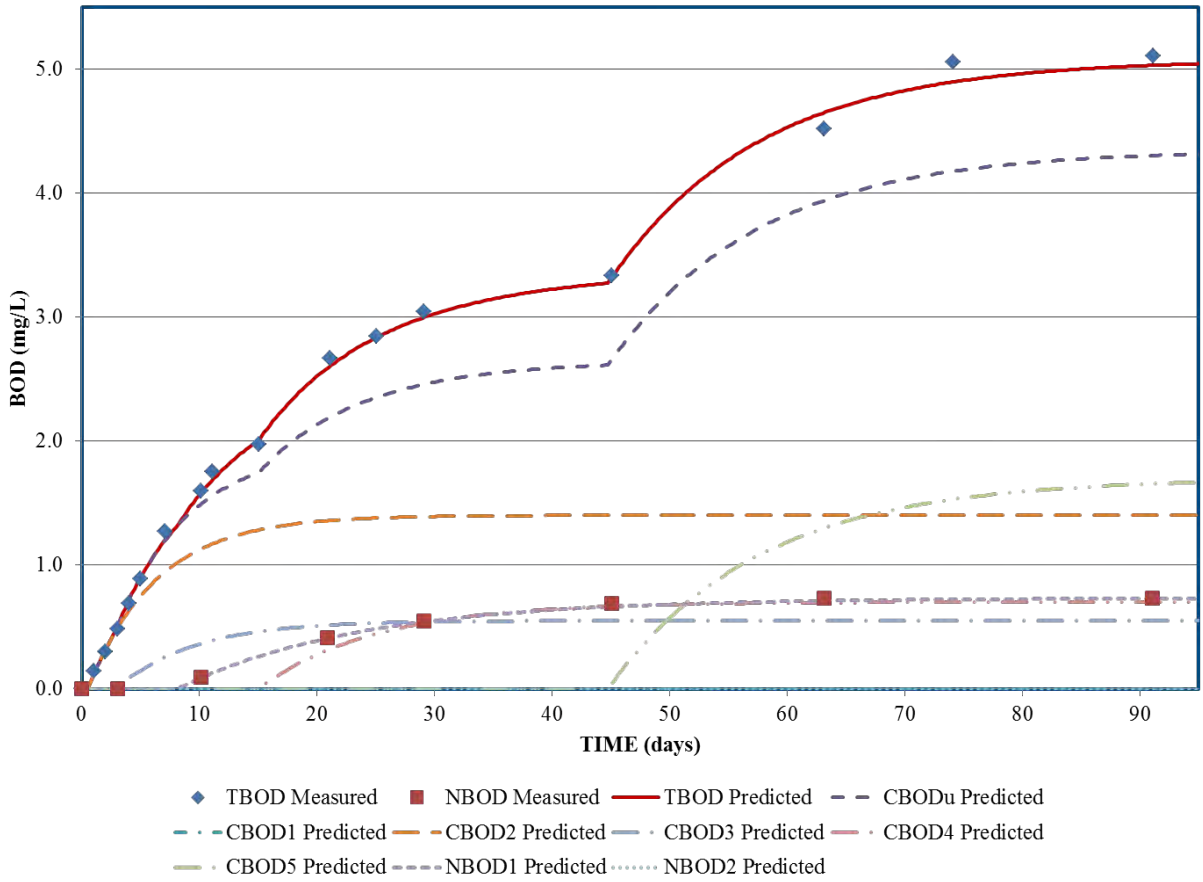


Figure 13. BOD Measured in the WFSR Upstream from SCWWTP in September

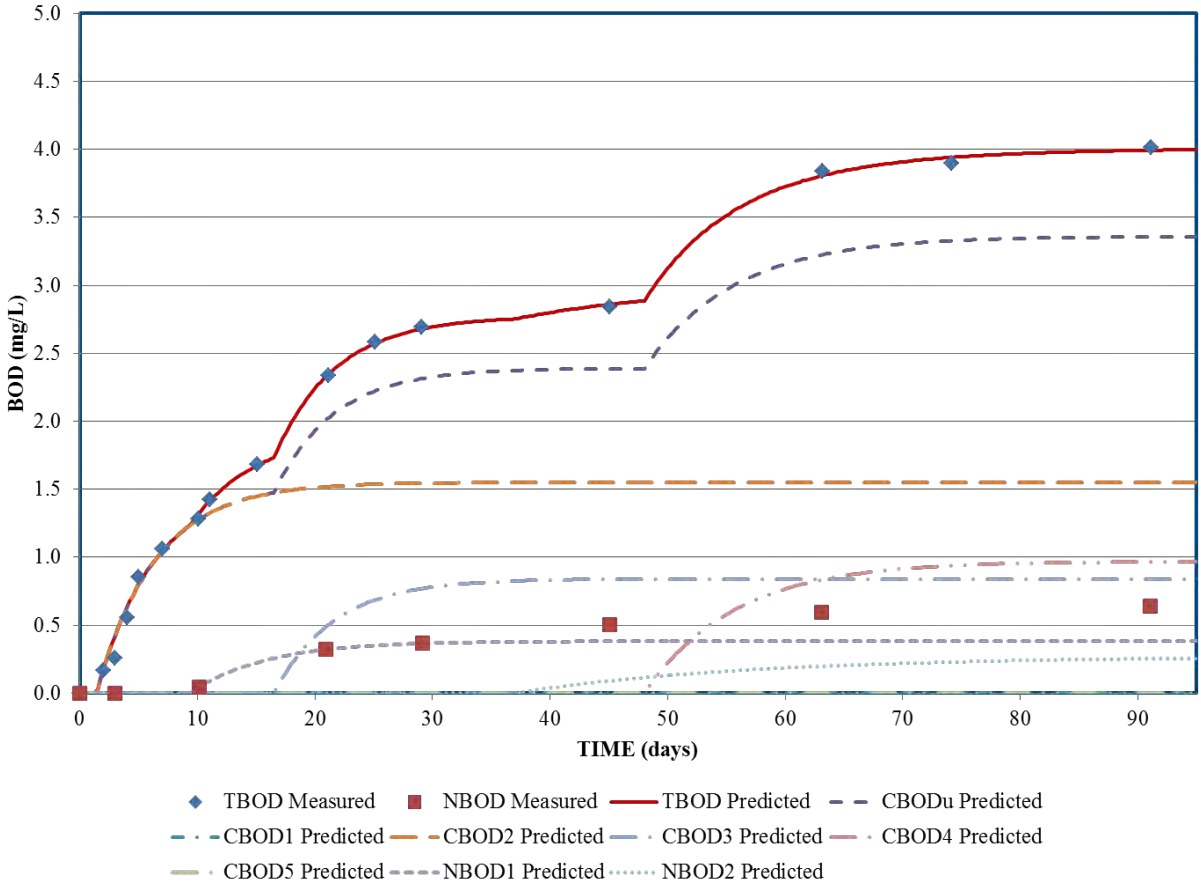
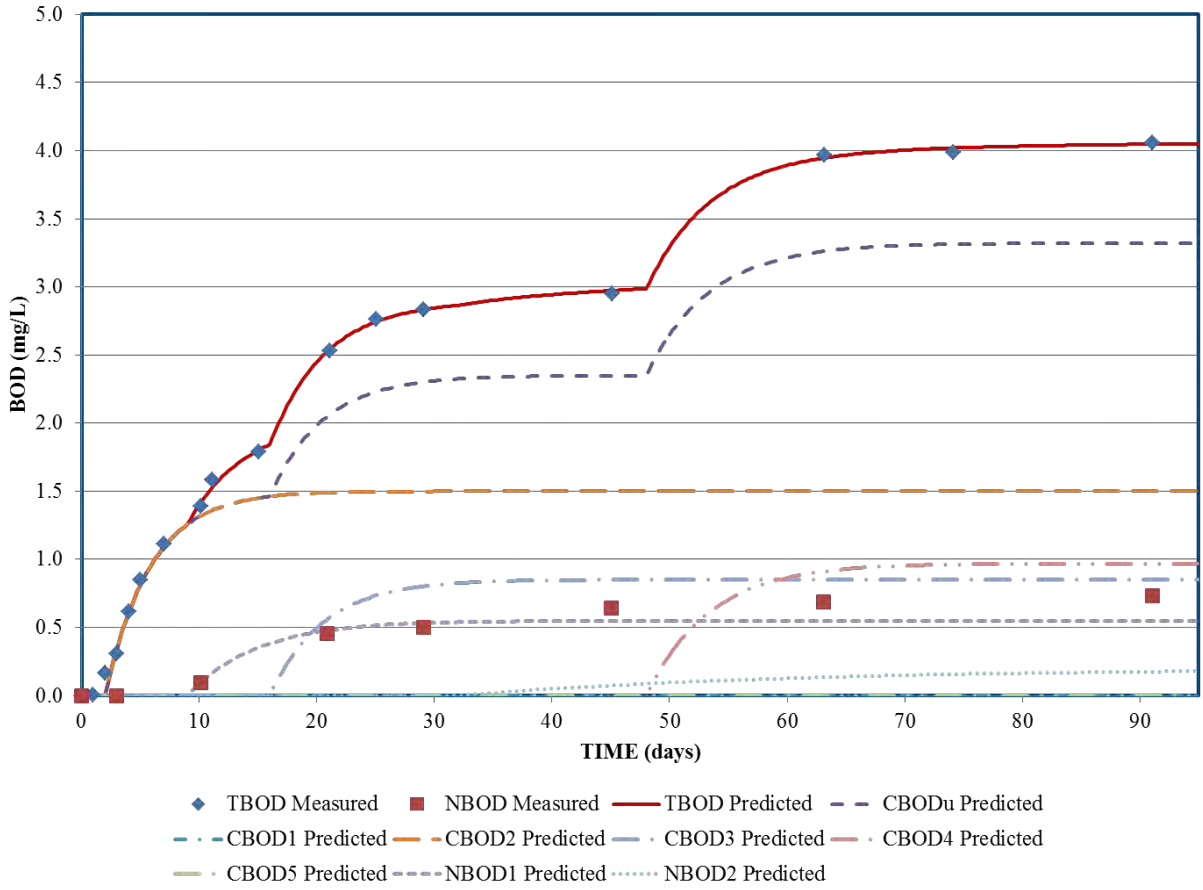


Figure 14. BOD Measured in the WFSR Upstream from SCWWTP in September (Duplicate)



RESULTS – NUTRIENT ANALYSIS

An additional benefit to this test is the ability to determine the amount of both labile and recalcitrant nitrogen and phosphorus that is present in the sample. By tracking the conversion of ammonia and organic nitrogen to nitrate over time, one can determine the amount of nitrogen that could be expected to potentially impact a system. Organic nitrogen that remains after 90 days is considered recalcitrant and is not expected to impact the system. For this system, the phosphorus concentrations were not large enough to allow for this analysis to take place. The results of this analysis are presented in Table 3.

Table 3. Labile and Recalcitrant Nitrogen

COLLECTION DATE	SAMPLE	LOCATION	INITIAL ORG. N (mg/L)	FINAL ORG. N (mg/L)	RECALC. ORG. N (%)	LABILE ORG. N (%)
July 29, 2015	WFSRDown	WF003	0.326	0.17	52%	48%
	WFSREff	WWTP	0.972	0.67	69%	31%
	WFSRUP	WF004	*0.093*	0	0%	100%
August 27, 2015	WFSRDown	WF003	0.231	0.05	22%	78%
	WFSREff	WWTP	1.072	0.6	56%	44%
	WFSRUP	WF004	0.222	0.09	41%	59%
September 28, 2015	WFSRDown	WF003	0.218	0.09	41%	59%
	WFSREff	WWTP	1.35	1.3	96%	4%
	WFSRUP	WF004	0.211	0.11	52%	48%
	WFSRUP-D	WF004	0.22	0.09	41%	59%

Note: (D) Represents a duplicate sample
Italicized text represents an estimated concentration.

The amount of labile nitrogen in the system increases slightly downstream from the WWTP, although the percent of nitrogen that is labile, or available for biological uptake, appears to decrease.

DISCUSSION

The results of these tests show that the Sinking Creek WWTP is having little impact on the dissolved oxygen resources on the West Fork due to the level of treatment achieved. These tests were completed over a 90-day period. The station directly downstream at WF003 would not see the full impact of the 90-days exertion. They also demonstrate through the high f-ratio that the effluent $CBOD_u$ is highly recalcitrant and that the river deoxygenation rate should be much lower than what Murfreesboro reported in 1991 (Crane, Vlachos, Leeds, Verner, Corn, & Lane, 1991). The United States Army Corps of Engineers (USACE) (1998) has estimated that the J. Percy Priest Reservoir retains water for 176 days. This means that the results of these Time-Series BOD tests would be fully realized within the reservoir. The tests show that it would not be possible to distinguish an area in Percy Priest Lake that is impacted by the WWTP versus the impacts from the existing background conditions.

It is noted that the NBOD exerted in the bottle may not be exerted in the same manner in the River. The Time-Series BOD test is conducted without light, so that algal impacts are removed. In the River, the algae will out-compete the nitrifying bacteria for nutrients. With the

nutrient-starved conditions in the system, the small addition of nutrients allows the algae to grow and provide a solid foundation for the food chain. While excessive algae are not desirable from an aesthetic condition and from potentially causing DOs to fall below 1 to 2 mg/L during the early morning hours, the absence of nutrients also impacts the stream in a negative manner. Without the nutrients, the food chain suffers, which can be seen in the lower fisheries population on the East Fork compared to the West Fork. Because both the West Fork and the East Fork have good DO concentrations, the system appears to be in balance to support a healthy aquatic ecosystem.

BIBLIOGRAPHY

Crane, Vlachos, Leeds, Verner, Corn, & Lane. 1991. *Assimilative Capacity of the West Fork Stones River.* Brentwood and Nashville. The Advent Group, Inc. and Smith Seckman Reid, Inc.

Eckenfelder & O'Connor. *1961. Biological Waste Treatment*. New York. Pergamon Press

USACE. 1998. *National Inventory of Dams.* Washington, D.C.USACE, Office of the Chief

Corn, Sielbeck, Rogers V, Carmean, & Corn. November 2015. *Wasteload Allocation Analysis, North Newport River near Riceboro, Georgia.* Brentwood. AquAeTer, Inc.

If you should have questions or comments concerning our assessment, please call us at (615) 373-8532 or by FAX at (615) 373-8512 or by e-mail at jmcorn@aquaeter.com.

ATTACHMENT 1

LABORATORY DATA

Lab Instrument Calibration Log

Page 3

DATE (mm.dd.yy)	TIME (military)	INSTRUMENT TYPE	INSTRUMENT MODEL	INTIAL READING	INTIAL TEMP	FINAL READING	FINAL TEMP
09.24.15	1351	YSI	III	115.3 / 8.24		99.8	8.33
09.24.15	1437	YSI	★ ~~III~~ II (backup) w/ probe II	140	23.38	100.0 / 8.50	23.51
09.24.15	1450	YSI	II (backup)	112.4 / 9.58	23.09	100.0 / 8.63	22.71
9/28/15	1223	YSI	III	100.9 / 8.59	22.82	N/A	
9/28/15	2055	YSI	III	97.3/8.30	23.33	100.0/8.49	23.55
9/28/15	2107	YSI	III	102.0/8.96	21.66	100.0/8.75	21.99
9/29/15	1102	YSI	III	99.3/8.55	22.95	100.0/8.52	23.31
9/30/15	1059	YSI	III	97.1/8.25	23.46	100.0/8.46	23.76
9/30/15	1119	YSI	III	101.2/8.93	21.66	unsteady...	
9/30/15	1121	YSI	II	93.4/8.06	22.71	100.0/8.60	22.86
10/1/15	1101	YSI	II	98.7/8.56	22.43	100.0/8.67	22.51
10/2/15	1007	YSI	I *changed probe head	100.3 / ~~99.~~	22.65	~~100.3~~ / 99.9	
10/02/15	1111	YSI	II	93.1 / 8.02	22.72	100.0 / 8.62	22.72
10/03/15	1021	YSI	II	99.6 / 8.82	21.43	100.0 / 8.81	21.62

★ w/ probe III

TABLE __. CALIBRATION LOG

DATE	TIME	INSTRUMENT	pH				CONDUCTIVITY				DO								AUTO LOG OFF	BATT (v)	INITIALS	COMMENTS
			pH_i	TEMP	pH_f	TEMP	$COND_i$	TEMP	$COND_f$	TEMP	$DO_{i\%sat}$	TEMP	$DO_{i100\%sat}$	TEMP	$DO_{img/L}$	TEMP	$DO_{fmg/L}$	TEMP				
9/28/15	0730	III									89.8	24.22	100.0	24.22	8.21	24.22	8.39	24.22				III for field
9/28/15	0731	II									92.8	23.38	100.0	23.45	7.90	23.38	8.51	23.45				II field backup
10/05/15	1046	II									99.5	22.26	100.0	22.05	8.46		8.74					
~~10/07/15~~	~~1401~~	~~II~~									~~99.1~~	~~22.19~~			~~8.03~~							
10/08/15	1403	II									97.8	22.31	100.0	22.47	8.51		8.67					
10/09/15	1350	II									99.3	22.31	100.0	22.31	8.40		8.67					
10/12/15	1221	II									99.0	20.97			8.84							
"		II									96.3	22.75	100.0	22.95	8.29		8.59					
"	1339	II									108.4	19.74	100.0	20.55	9.88		9.05					
10/13/15	1251	II									92.9	20.35	100.0	20.64	8.35		8.99					
10/19/15	1349	II									103.2	20.40	100.0	20.33	9.32		9.04					
10/23/15	1250	II									110.4	21.23	100.0	21.38	9.57	21.24	8.87					
10/27/15	1250	II									91.3	20.82	100.0	20.93	8.16		9.94					
11/10/15	1317	II									103.2	20.00	100.0	19.97	5.74		9.10					
11/10/15	1331	II	Re: changed probe								101.9	20.59		19.83								
11/16/15	1405	II									96.1	22.73	100.0	22.88	7.41		8.60					
11/12/15	1207	II									97.3	21.59	100.0	21.70	8.57		8.79					
11/30/15		II									91.2	20.97	100.0	20.92	7.58		8.93					
12/11/15		II									94.9	21.94	100.0	22.00	8.31		8.75					
~~12/28/15~~	~~1209~~	~~II~~									~~75.8~~	~~21.67~~	~~100.0~~	~~21.9~~	~~6.38~~			changed membrane				
12/28/15	1217	II									110.4	21.76	100.0	22.03	9.65		8.74					

TABLE __. CALIBRATION LOG

DATE	TIME	INSTRUMENT	pH				CONDUCTIVITY				DO								AUTO LOG OFF	BATT (v)	INITIALS	COMMENTS
			pH_i	TEMP	pH_f	TEMP	$COND_i$	TEMP	$COND_f$	TEMP	$DO_{i\%sat}$	TEMP	$DO_{100\%sat}$	TEMP	$DO_{i mg/L}$	TEMP	$DO_{f mg/L}$	TEMP				
8/5	1150										99.5	20.15			9.03							
											100.0	20.37			9.03							
8/5	1159										106.1	19.77			9.68							
											100.0	19.98			9.10							
8/7	1256										97.4	21.16			8.64							
											100.0	21.23			8.80							
8/10	1231										97.8	20.02			8.87							
											100.0	20.26			9.03							
8/13/15	1100	II									~~100.7~~	~~20.79~~			~~8.97~~	~~20.79~~	nubs					
											99.5%	20.89			8.87	20.89						
											100.0%	21.07			8.91	21.07						
8/18/15	1206	II									103.5%	20.66			9.27							
											100.0%	21.05			8.90							
8/24/15	1357	II									97.7%	~~8.59~~	21.82		8.59							
											100.0%		21.86		~~8.77~~							
8/27/15	1122	II									71.7	20.96			6.41							
											100.0	21.11			8.90							
											100.9	20.25			9.09							
											100.0	20.87			8.93							
8/27/15	2019	III									~~94.5~~	~~23.74~~			~~8.06~~							
											96.7	22.78			8.38							
											100	22.96			8.56							
		~~II~~									~~77.9~~	~~22.89~~ ~~6.84~~			~~6.68~~	CJT						
8/28/15	1106	III									101.3	22.58			8.73							
											100.0	22.90			8.58							
8/29/15	1106	III									101.1	23.19			8.63	MBS						
											100.0	23.28			8.53							
8/30/15	1104	III									97.9	23.25			8.36							
											100.0	23.32			8.52							
8/31/15	1231	III									98.5	22.48			8.52							
											100.0	22.77			8.62							

TABLE __. CALIBRATION LOG Stones BOD Sampling

DATE	TIME	INSTRUMENT	pH				CONDUCTIVITY				DO								AUTO LOG OFF	BATT (v)	INITIALS	COMMENTS
			pH_i	TEMP	pH_f	TEMP	$COND_i$	TEMP	$COND_f$	TEMP	$DO_{\%sat}$	TEMP	$DO_{100\%sat}$	TEMP	$DO_{mg/L}$	TEMP	$DO_{mg/L}$	TEMP				
7/29/15	0714	II									100.5	23.10			8.62							
											100.0	23.38			8.52							
7/29/15	0716	I									99.9	24.25			8.37							
											100.0	24.32			8.37							
7/29/15	2104	II									101.9	23.06			8.73							
											100.0	23.36			8.52							
7/29/15	2118	II									101.9	21.97			8.92							Re-Cal-Up off Readings
											100.0	22.08			8.74							
7/30/15	1207	II									100.3	23.01			8.61							
											100.0	23.12			8.55							
7/30/15	1408	II									99.9	22.97			8.57							Practice for C. Brown
											100.0	23.07			8.57							
7/31/15	1257	II									99.7	22.46			8.64							
											100.0	22.64			8.63							
8/1/15	1226	II									100.3	22.81			8.61							
											100.0	22.11			8.57							
8/2/15	1108	II									~~95.5~~	~~20.59~~			8.49							Probe acting odd - redo
											98.6	22.71										
8/2/15	1115	II									100.2	23.20			8.55							
											100.0	23.27			8.54							
8/2/15	1132	II									120.9	22.83			10.40							Changed probe
											100.0	22.88			8.59							
8/3/15	1237	II									88.9	22.90			7.55							
											100.0	23.08			8.56							

Long Term BOD Data Sheet
Series Number:
Series Description: __ % Eff. __ % River
Sample Location:

Project Name: Stones River
WFSR Down - 07

Project No: 142299
Setup Date:
Setup Time:

	Day 0	DAY 0.5	DAY 1	DAY 2	DAY 3	DAY 4 *	DAY 5	DAY 7
		II	II	II	II	II	Mon	Wed 8/5 II
Read Date	7/29	7/29/15	7/30/15	7/31/15	8/1/15	8/2/15	8/3/15	8/5/15
Read Time	1237	~~2111~~ 2120	1209	1259	1232	1117	1248	~~1153~~
Btl. A - Temp.	28.61	20.40	19.41	19.15	19.17	~~19.58~~ 19.58	19.25	19.42
Btl. A - DO	8.34	8.16	7.87	7.72	7.37	~~7.16~~ 7.03	6.97	7.01
Btl. B - Temp.	28.77	20.50	19.17	19.37	19.37	~~19.56~~ 19.54	19.13	19.24
Btl. B - DO	8.31	8.15	7.95	7.73	7.49	~~7.2~~ 7.17	7.19	7.24

	DAY 10	DAY 12	DAY 15	DAY 20	DAY 25	DAY 30	DAY 45	DAY 60
	Fri 8/7	Mon 8/10 II	8/13	8/18 II	8/24 II	8/28 (or 27?) II	9/14 II	9/28 II
Read Date	8/7	8/10	8/13/15	8/18/15	8/24/15	8/27/15	9/14/15	9/28/15
Read Time	1251	1233	1105	1210	1401	1242 1290	1219	1225
Btl. A - Temp.	20.04	19.82	20.07	20.24	20.13	19.59 21.14	20.71	20.54
Btl. A - DO	6.50	10.47	6.22	5.61	5.34	5.86 5.02	4.41	4.09
Btl. B - Temp.	19.86	19.95	19.85	20.07	20.24	19.86 21.01	20.62	20.75
Btl. B - DO	6.77	6.69	~~5.48~~ 6.46	5.98	5.63	6.16 5.32	4.74	4.39

	DAY 75	DAY 90 II
	10/12 Rec'd	10/27
Read Date	10/12/15	10/27/15
Read Time	1334	1253
Btl. A - Temp.	19.82 19.85	18.70
Btl. A - DO	4.01 4.05	3.89
Btl. B - Temp.	19.50 18.67	18.89
Btl. B - DO	4.30 4.35	4.22

1201
19.33
6.66
19.25
6.85

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

* recalibrated DO probe so new readings were taken
** recalibrated due to ↑ readings

Long Term BOD Data Sheet
Series Number:
Series Description: __ % Eff. __ % River
Sample Location:

Project Name: Stones River

WFSR-EFF-07

Project No: 142299
Setup Date:
Setup Time:

	Day 0	II DAY 0.5	II DAY 1	II DAY 2	II DAY 3	DAY 4	DAY 5 II	II DAY 7
Read Date	7/29	7/29	7/30/15	7/31/15	8/1/15	8/2/15	8/3/15	8/5/15
Read Time	1258	2132	1214	1307	1238	1155	1256	1209
Btl. A - Temp.	20.03	20.30	18.84	18.75	19.11	19.29	18.35	19.26
Btl. A - DO	8.26	6.40*	8.32	8.13	7.70	7.35	7.46	7.14
Btl. B - Temp.	27.72	20.90	18.72	19.01	19.06	19.10	19.12	19.10
Btl. B - DO	8.37	8.30	8.32	8.17	7.89	7.49	7.53	7.30

	8/7 DAY 10 II	II DAY 12	DAY 15 II	II DAY 20	II DAY 25	II DAY 30	II DAY 45	II DAY 60
Read Date	8/7	8/10	8/13	8/18/15	8/24/15	8/27/15	9/14/15	9/28/15
Read Time	1306	1239	1114	1222	1408	1304	1229	1240
Btl. A - Temp.	19.74	19.73	19.84	19.95	20.07	20.55	20.66	20.70
Btl. A - DO	7.07	7.02	6.85	6.38	6.12	5.61	4.63	4.13
Btl. B - Temp.	19.83	19.81	19.76	20.07	19.91	20.64	20.56	20.88
Btl. B - DO	7.24	7.21	7.06	6.56	6.23	5.70	4.94	4.33

	II DAY 75	II DAY 90						
Read Date	10/12/15	10/27/15						
Read Time	1357	1302						
Btl. A - Temp.	18.64	18.91						
Btl. A - DO	3.89	3.55						
Btl. B - Temp.	18.57	18.66						
Btl. B - DO	4.02	3.64						

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

*tried recalibrating due to high reading; same result

Long Term BOD Data Sheet
Series Number:
Series Description: __ % Eff. __ % River
Sample Location: WFSRUp - 67

Project Name: Stones River

Project No: 142299
Setup Date:
Setup Time:

	Day 0	II DAY 0.5	II DAY 1	II DAY 2	II DAY 3	II DAY 4	DAY 5 II	DAY 7 II
Read Date	7/29/15	7/29/15	7/30/15	7/31/15	8/1/15	8/2/15	8/3/15	8/5/15
Read Time	1317	2202	1224	1314	1245	1142	1304	1211
Btl. A - Temp.	28.96	19.55	18.72	18.85	19.45	19.19	19.31	19.43
Btl. A - DO	8.38	8.30	8.21	7.85	7.37	7.08	7.00	6.60
Btl. B - Temp.	28.80	19.76	18.74	18.85	19.39	19.32	19.12	19.36
Btl. B - DO	8.44	8.38	8.19	7.90	7.43	7.24	7.18	6.81

	8/7 DAY 10 II	DAY 12 II	DAY 15 II	DAY 20 II	DAY 25 II	III DAY 30	III DAY 45	II DAY 60
Read Date	8/7	8/10	8/13	8/18/15	8/24/15	8/27/15	9/14/15	9/28/15
Read Time	1314 ←	1246	1122	1231	1416	1312	1239	1251
Btl. A - Temp.	20.02	19.99	20.10	20.01	20.10	20.04	20.57	20.71
Btl. A - DO	6.47	6.32	6.02	5.46	5.19	4.60	4.33	4.00
Btl. B - Temp.	20.11	20.02	20.00	20.14	19.97	20.72	20.52	20.67
Btl. B - DO	6.66	6.57	6.27	5.73	5.46	5.09	4.60	4.34

	II DAY 75	II DAY 90						
Read Date	10/12/15	10/27/15						
Read Time	1355	1309						
Btl. A - Temp.	19.75	18.79						
Btl. A - DO	3.96	3.93						
Btl. B - Temp.	18.65	18.87						
Btl. B - DO	4.30	4.27						

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

Long Term BOD Data Sheet
Series Number:
Series Description: __ % Eff. __ % River
Sample Location: WFSR Down

Project Name: Stones River
WFSR-Down-08
Collected @ 0914

Project No: 142299
Setup Date: 8/27/15
Setup Time: 1025

	I Day 0	III DAY 0.5	II DAY 1	II DAY 2	III DAY 3	II DAY 4	II DAY 5	II DAY 7
Read Date	8/27/15	8/27/15	8/28/15	8/29/15	8/30/15	8/31/15	9/1/15	9/3/15
Read Time	1025	2021	1108	1110 1105	1131	1235	1231	1227
Btl. A - Temp.	23.05	20.78	20.48	~~20.50~~ 20.41	20.08	20.04	20.06	20.13
Btl. A - DO	7.68	7.78 *	7.00	~~7.32~~ 7.35	7.24	7.07	6.03	6.41
Btl. B - Temp.	22.84	20.74	20.46	20.38	20.15	20.09	20.15	20.14
Btl. B - DO	7.78	7.67	7.62	7.25	7.15	7.13	6.03	6.49

	II DAY 10	II DAY 12	II DAY 15	II DAY 20	II DAY 25	II DAY 30	II I ★ DAY 45	II DAY 60
Read Date	~~8~~ 9/4/15	9/8/15	9/11/15	9/16/15	9/21/15	9/24/15	10/12/15	10/27/15
Read Time	1151	1252	1249	1245	1327	1310 1355	1230	1316
Btl. A - Temp.	20.08	20.30	~~20.15~~ 20.13	20.25	20.25	6.39 5.32	~~5.01~~ → 4.98	18.64
Btl. A - DO	6.36	6.17	5.96	5.63	5.54	20.27 20.45	20.21	4.64
Btl. B - Temp.	20.21	20.22	20.10	20.37	20.31	6.40 5.38	4.92	18.65
Btl. B - DO	6.54	6.24	6.01	5.62	5.57	21.0 20.27	18.40	4.05

	II DAY 75	II DAY 90
Read Date	11/10/15	11/30/15
Read Time	~~1325~~ 1415	1242
Btl. A - Temp.	20.99	17.08
Btl. A - DO	~~20~~ 4.79	4.15
Btl. B - Temp.	20.87	16.93
Btl. B - DO	4.77	4.25

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

★ started w/ III, went back to II, III - inaccurate

Long Term BOD Data Sheet **Project Name:** **Stones River** **Project No:** **142299** 1505

Series Number: **Setup Date:** 8/27/15

Series Description: __ % Eff. __ % River **Setup Time:** 1133

Sample Location: WFSR-UP WFSRUP-08 Collected @ 0938

	Day 0	III DAY 0.5	III DAY 1	III 8/29 DAY 2	III 8/30 DAY 3	III 8/31 DAY 4	III 9/1 DAY 5	III 9/3 DAY 7
Read Date	8/27/15	8/27/15	8/28/15	8/29/15	8/30/15	8/31/15	9/1/15	9/3/15
Read Time	1133 | 1325	2100	1112	1116	1136	1243	1244	1240
Btl. A - Temp.	21.48 | 21.09	20.75	20.55	20.48	20.18	20.19	20.16	20.22
Btl. A - DO	8.49 | 8.25	8.23	8.02	7.54	7.38	7.29	6.96	6.59
Btl. B - Temp.	21.43 | 21.48	~~21.42~~ 20.68	20.51	20.48	20.22	20.20	20.20	20.16
Btl. B - DO	8.43 | 8.28	~~8.28~~ 8.24	8.07	7.63	7.45	7.44	7.19	6.83

	III 9/7 DAY 10	III 9/8 DAY 12	III 9/11 DAY 15	III 9/16 DAY 20	III 9/21 DAY 25	III 9/24 DAY 30	I 10/12 DAY 45	I 10/26 DAY 60
Read Date	9/14/15	9/8/15	9/11/13	9/16/15	9/21/15	9/24/15	10/12/15	10/27/15
Read Time	1204	1305	1258	1256	1321	1359	1241	1321
Btl. A - Temp.	20.11	20.36	20.15	20.25	20.31	20.30	18.50	19.67
Btl. A - DO	6.47	6.21	5.94	5.05	5.57	5.29	4.89	4.64
Btl. B - Temp.	20.13	20.30	20.16	20.23	20.23	20.28	18.36	19.65
Btl. B - DO	6.69	6.45	6.20	5.95	5.92	5.51	5.24	5.01

	III 11/10 DAY 75	11/25 DAY 90 I
Read Date	11/10/15	11/30/15
Read Time	1420	1248
Btl. A - Temp.	20.85	17.00
Btl. A - DO	4.74	4.14
Btl. B - Temp.	20.44	17.05
Btl. B - DO	5.06	4.58

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

Long Term BOD Data Sheet **Project Name:** **Stones River** **Project No:** ~~142299~~ 152001 NR

Series Number: **Setup Date:** 8/27/15

Series Description: __ % Eff. __ % River **Setup Time:** 1157

Sample Location: WFSR-EFF WFSREFF-08 Collected @ 1000

	Day 0	III DAY 0.5	DAY 1	III DAY 2	III DAY 3	III DAY 4	III DAY 5	III DAY 7
Read Date	8/27/15	8/27/15	8/28/15	8/29/15	8/30/15	8/31/15	9/1/15	9/3/15
Read Time	1157 | 1328	2110	1116	1121	1141	1240	1234	1230
Btl. A - Temp.	24.00 | 22.92	20.80	20.68	20.73	20.45	20.42	20.34	20.44
Btl. A - DO	8.93 | 7.78	8.14	7.97	7.41	7.21	7.13	6.85	6.36
Btl. B - Temp.	24.0 | 23.07	20.88	20.68	20.70	20.45	20.42	20.44	20.45
Btl. B - DO	8.95 | 7.85	8.17	7.97	7.49	7.25	7.24	6.93	6.46

	III DAY 10	III DAY 12	III DAY 15	III DAY 20	III DAY 25	III DAY 30	I DAY 45	I DAY 60
Read Date	9/4/15	9/6/15	9/11/15	9/16/15	9/21	9/24/15	10/12/15	~~10/27~~ 10/27/15
Read Time	1209	1257	1254	1248	1333	1403	1257 | 1315	1328
Btl. A - Temp.	20.37	20.46	20.43	20.42	20.44	20.46	18.74 | 20.35	18.86
Btl. A - DO	6.20	5.91	5.04	5.17	4.69	4.25	3.25 | 8.60	7.35
Btl. B - Temp.	20.38	20.48	20.45	20.43	20.47	20.49	18.70 | 20.37	18.81
Btl. B - DO	6.31	6.05	5.07	5.31	4.87	4.38	3.40 | 8.62	7.72

	III DAY 75	II DAY 90						
Read Date	11/10/15	11/30/15						
Read Time	1415	1255						
Btl. A - Temp.	20.98	17.34						
Btl. A - DO	6.61	5.74						
Btl. B - Temp.	20.98	17.36						
Btl. B - DO	7.02	6.30						

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

Long Term BOD Data Sheet **Project Name:** **Stones River** **Project No:** ~~142299~~ 152384

Series Number: **Setup Date:** 9/29/15

Series Description: __ % Eff. __ % River WFSRDown-09 **Setup Time:** 1032

Sample Location:

	III Day 0	III DAY 0.5	III DAY 1	I DAY 2	II DAY 3	II DAY 4	II DAY 5	II DAY 7
Read Date	9/29/15	9/29/15 *	9/29/15	9/30/15	10/1/15	10/02/15	10/03/15	10/05/15
Read Time	1032	2058 / 2110	1105	1127	1102	1115	1045	1153
Btl. A - Temp.	23.42	20.52 / 20.79	20.79	19.62	19.35	19.87	19.30	19.49
Btl. A - DO	7.91	7.95 / 7.92	7.75	7.59	7.49	7.11	7.07	6.58
Btl. B - Temp.	23.46	20.53 / 20.58	20.49	19.62	19.86	19.37	19.58	19.10
Btl. B - DO	7.94	8.00 / 7.91	7.78	7.67	7.45	7.29	7.15	6.78

	DAY 10	II DAY 12	II DAY 15	II DAY 20	II DAY 25	I DAY 30	III DAY 45	II DAY 60
Read Date	10/08/15	10/09/15	10/13/15	10/19/15	10/23/15	10/27/15	11/12/15	11/30/15
Read Time	1405	1302	1254	1355	1258	1347	1211	1300 / 1322
Btl. A - Temp.	19.02	19.35	18.38	19.39	19.17	19.14	20.97	17.54 / 19.63
Btl. A - DO	6.34	6.13	5.99	5.23	5.02	4.87	4.52	3.37 / 7.87
Btl. B - Temp.	19.21	18.91	18.90	19.02	19.33	18.99	21.21	13.72 / 19.63
Btl. B - DO	6.49	6.34	6.09	5.35	5.23	5.07	4.83	17.14 / 7.89

	II DAY 75	I DAY 90						
Read Date	12/11/15	12/28/15						
Read Time	1313	1222						
Btl. A - Temp.	17.28	17.76						
Btl. A - DO	7.58	7.33						
Btl. B - Temp.	16.97	~~17.4~~ 17.25	KSL					
Btl. B - DO	7.14	~~6.56~~ 6.84	KSL					

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

*recalibrated

Long Term BOD Data Sheet **Project Name:** **Stones River** **Project No:** ~~142299~~ 152-4

Series Number: **Setup Date:** 9/28/15

Series Description: __ % Eff. __ % River WFSREFF-09 use this data **Setup Time:** 1047

Sample Location:

	III Day 0	III DAY 0.5	III DAY 1	III DAY 2 IV	II DAY 3	II DAY 4	DAY 5	DAY 7
Read Date	9/28/15	9/28/15	9/29/15	9/30/15	10/1/15	10/02/15	10/03/15	10/05/15
Read Time	1047	2105 | 2114	1109	1108 | 1132	1110	1124	1051	1159
Btl. A - Temp.	25.62	20.87 | 20.49	20.72	20.69 | 19.69	19.62	19.70	19.49	19.44
Btl. A - DO	8.06	8.96 | 8.37	8.17	8.15 | 8.00	7.88	7.58	7.34	7.16
Btl. B - Temp.	25.68	/ | 20.86	20.61	20.76 | 19.83	19.50	19.56	19.48	19.24
Btl. B - DO	8.07	| 8.34	8.27	8.34 | 8.23	8.22	7.90	7.86	7.49

	DAY 10	DAY 12 II	II DAY 15	II DAY 20	II DAY 25	II DAY 30	II DAY 45	II DAY 60
Read Date	10/08/15	10/10/15	10/13/15	10/19/15	10/23/15	10/27/15	11/12/15	11/30/15
Read Time	1412	1307	1301	1404	1305	1353	1218	1312
Btl. A - Temp.	19.18	19.27	18.90	19.40	19.50	19.08	21.16	17.90
Btl. A - DO	7.00	6.92	6.05	6.15	5.80	5.48	5.04	3.82
Btl. B - Temp.	19.38	19.15	18.88	19.43	19.45	19.15	21.23	17.85
Btl. B - DO	7.57	7.30	7.28	6.53	6.30	6.05	5.57	4.39

	II DAY 75	II DAY 90						
Read Date	12/11/15	12/28/15						
Read Time	1325	1238						
Btl. A - Temp.	16.96	17.07						
Btl. A - DO	3.62	3.62						
Btl. B - Temp.	17.07	16.96						
Btl. B - DO	4.27	4.28						

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

*recalibrated

Long Term BOD Data Sheet
Series Number:
Series Description: __ % Eff. __ % River
Sample Location:

Project Name: Stones River

WFSRUP-09

Project No: ~~142299~~ 152384
Setup Date: 9/28/15
Setup Time: 1117

	Day 0	DAY 0.5	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 7
Read Date	9/28/15	9/28/15	9/29/15	9/30/15	10/1/15	10/02/15	10/03/15	10/05/15
Read Time	1117	2121	1113	1122	1118	1129	1058	1105
Btl. A - Temp.	23.59	20.95	20.54	20.69	19.54	~~19.57~~ 19.34	19.45	19.18
Btl. A - DO	7.99	8.11	8.03	7.93	7.69	~~7.50~~ 7.44	7.12	6.92
Btl. B - Temp.	23.55	20.74	20.59	19.76	19.46	19.51	19.41	19.28
Btl. B - DO	8.03	8.13	8.04	7.82	7.76	7.50	7.21	7.03

	DAY 10	DAY 12	DAY 15	DAY 20	DAY 25	DAY 30	DAY 45	DAY 60
Read Date	10/08/15	10/09/15	10/13/15	10/19/15	10/23/15	10/27/15	11/12/15	11/30/15
Read Time	1418	1313	1304	1411	1315	1402	1124	1330
Btl. A - Temp.	19.15	19.22	18.76	19.39	19.31	18.96	21.15	18.02
Btl. A - DO	6.72	6.55	6.32	5.60	5.39	5.32	5.11	4.19
Btl. B - Temp.	19.30	19.05	18.82	19.24	19.34	19.15	21.07	18.09
Btl. B - DO	6.81	6.67	6.41	5.79	5.62	5.50	5.37	4.37

	DAY 75	DAY 90
Read Date	12/11/15	12/28/15
Read Time	1332	1241
Btl. A - Temp.	17.02	17.10
Btl. A - DO	4.12	4.01
Btl. B - Temp.	17.15	17.16
Btl. B - DO	4.25	4.07

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

Long Term BOD Data Sheet **Project Name: Stones River** **Project No: ~~142299~~ 1523**

Series Number: **Setup Date:** 9/23/15

Series Description: __ % Eff. __ % River WFSR-UP-09 Dup **Setup Time:** 1126

Sample Location:

	III Day 0	III DAY 0.5	III DAY 1	II DAY 2	II DAY 3	II DAY 4	DAY 5	I DAY 7
Read Date	9/28/15	9/29/15	9/29/15	9/30/15	10/1/15	10/02/15	10/03/15	10/05/15
Read Time	1126	1211 KSL	1117	1137	1126	1135	1104	1110
Btl. A - Temp.	23.56	20.03	20.43	19.95	19.68	19.74	19.52	19.70
Btl. A - DO	8.06	8.19	8.07	7.89	7.77	7.47	7.17	6.96
Btl. B - Temp.	23.55	20.87	20.90	19.83	19.86	19.58	19.71	19.42
Btl. B - DO	8.06	8.21	8.06	7.89	7.74	7.39	7.17	6.96

	DAY 10	DAY 12 II	II DAY 15	II DAY 20	II DAY 25	I DAY 30	III DAY 45	II DAY 60
Read Date	10/08/15	10/10/15	10/13/15	10/19/15	10/23/15	10/27/15	11/12/15	11/30/15
Read Time	1423	1314	1306	1418	1324	1406	1232	1335
Btl. A - Temp.	19.34	19.32	18.97	19.59	19.56	19.07	21.39	18.10
Btl. A - DO	6.65	6.48	6.29	5.52	5.29	5.28	5.06	4.06
Btl. B - Temp.	19.42	19.30	18.99	19.45	19.61	19.24	21.27	18.18
Btl. B - DO	6.71	6.54	6.31	5.56	5.34	5.23	~~5.12~~ 5.11	4.18

	II DAY 75	I DAY 90						
Read Date	12/11/15	12/28/15						
Read Time	1340	1244						
Btl. A - Temp.	17.48	17.53						
Btl. A - DO	4.09	4.01						
Btl. B - Temp.	17.48	17.46						
Btl. B - DO	4.18	4.08						

DO is to be monitored on the following days: 0, 0.5, 1, 2, 3, 4, 5, 7, 10, 12, 15, 20, 25, 35, 45, 60, 75 and 90. On days where samples are aerated, DO will be measured both before and after aerations. Samples will be collected on days 0, 5, 10, 20, 30, 45, 60, and 90.

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January 06, 2016

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384
Pace Project No.: 92281289

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on December 29, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

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CERTIFICATIONS

Project:	Stones BOD 152384
Pace Project No.:	92281289

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384
Pace Project No.: 92281289

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92281289001	**WFSRDown-09**	Water	12/28/15 12:20	12/29/15 10:45
92281289002	**WFSREff-09**	Water	12/28/15 12:26	12/29/15 10:45
92281289003	**WFSRUP-09**	Water	12/28/15 12:33	12/29/15 10:45
92281289004	**WFSRUP-09-DUP**	Water	12/28/15 12:41	12/29/15 10:45

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384
Pace Project No.: 92281289

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92281289001	**WFSRDown-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92281289002	**WFSREff-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92281289003	**WFSRUP-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92281289004	**WFSRUP-09-DUP**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92281289

Sample: WFSRDown-09 **Lab ID: 92281289001** Collected: 12/28/15 12:20 Received: 12/29/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		01/05/16 16:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		12/31/15 13:33	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.55**	mg/L	0.020	1		01/02/16 04:37		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**1.4**	mg/L	0.050	1		12/30/15 06:56	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**1.5**	mg/L	0.50	10		12/29/15 13:00		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92281289

Sample: WFSREff-09 **Lab ID: 92281289002** Collected: 12/28/15 12:26 Received: 12/29/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		01/05/16 16:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.86**	mg/L	0.50	1		12/31/15 13:34	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.3**	mg/L	0.020	1		01/02/16 04:38		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**4.1**	mg/L	0.050	1		12/30/15 06:58	7723-14-0	M1
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**4.6**	mg/L	0.50	10		12/29/15 13:00		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92281289

Sample: WFSRUP-09 **Lab ID: 92281289003** Collected: 12/28/15 12:33 Received: 12/29/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		01/05/16 16:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		12/31/15 13:34	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.26**	mg/L	0.020	1		01/02/16 04:39		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.056**	mg/L	0.050	1		12/30/15 07:01	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.088**	mg/L	0.050	1		12/29/15 13:00		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92281289

Sample: WFSRUP-09-DUP **Lab ID: 92281289004** Collected: 12/28/15 12:41 Received: 12/29/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		01/05/16 16:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		12/31/15 13:35	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.27**	mg/L	0.020	1		01/02/16 04:40		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.058**	mg/L	0.050	1		12/30/15 07:01	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.079**	mg/L	0.050	1		12/29/15 13:00		

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92281289

QC Batch: WETA/25996 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

METHOD BLANK: 1641270 | Matrix: Water
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	01/05/16 16:30	

LABORATORY CONTROL SAMPLE: 1641271

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.94	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1641272 1641273

Parameter	Units	92281131001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.034	1	1	0.80	0.81	77	78	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92281289

QC Batch: WETA/25971 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

METHOD BLANK: 1639691 Matrix: Water
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	12/31/15 13:22	

LABORATORY CONTROL SAMPLE: 1639692

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1639693 1639694

Parameter	Units	92281062001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	760	500	500	1310	1260	111	101	90-110	4	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1639695 1639696

Parameter	Units	92281347001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	1.2	10	10	11.2	11.3	100	101	90-110	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92281289

QC Batch: WETA/25984 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

METHOD BLANK: 1640308 | Matrix: Water
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	01/02/16 04:08	

LABORATORY CONTROL SAMPLE: 1640309

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1640310 1640311

Parameter	Units	92281083001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	4.4	12.5	12.5	16.6	16.6	98	98	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1640312 1640313

Parameter	Units	92281163002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.5	2.4	99	94	75-125	5	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92281289

QC Batch: WETA/25962 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

METHOD BLANK: 1638877 Matrix: Water
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	12/30/15 06:45	

LABORATORY CONTROL SAMPLE: 1638878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1638879 1638880

Parameter	Units	92281050002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	66.2	2.5	2.5	72.4	72.9	248	269	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1638881 1638882

Parameter	Units	92281289002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	4.1	2.5	2.5	7.1	7.4	120	131	90-110	4	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92281289

QC Batch: WETA/25959 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

METHOD BLANK: 1638552 | Matrix: Water
Associated Lab Samples: 92281289001, 92281289002, 92281289003, 92281289004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	12/29/15 13:00	

LABORATORY CONTROL SAMPLE: 1638553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.26	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1638554 1638555

Parameter	Units	92281289001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	1.5	2.5	2.5	4.2	4.2	105	105	90-110	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 152384
Pace Project No.: 92281289

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384
Pace Project No.: 92281289

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92281289001	**WFSRDown-09**	EPA 350.1	WETA/25996		
92281289002	**WFSREff-09**	EPA 350.1	WETA/25996		
92281289003	**WFSRUP-09**	EPA 350.1	WETA/25996		
92281289004	**WFSRUP-09-DUP**	EPA 350.1	WETA/25996		
92281289001	**WFSRDown-09**	EPA 351.2	WETA/25971		
92281289002	**WFSREff-09**	EPA 351.2	WETA/25971		
92281289003	**WFSRUP-09**	EPA 351.2	WETA/25971		
92281289004	**WFSRUP-09-DUP**	EPA 351.2	WETA/25971		
92281289001	**WFSRDown-09**	EPA 353.2	WETA/25984		
92281289002	**WFSREff-09**	EPA 353.2	WETA/25984		
92281289003	**WFSRUP-09**	EPA 353.2	WETA/25984		
92281289004	**WFSRUP-09-DUP**	EPA 353.2	WETA/25984		
92281289001	**WFSRDown-09**	EPA 365.1	WETA/25962		
92281289002	**WFSREff-09**	EPA 365.1	WETA/25962		
92281289003	**WFSRUP-09**	EPA 365.1	WETA/25962		
92281289004	**WFSRUP-09-DUP**	EPA 365.1	WETA/25962		
92281289001	**WFSRDown-09**	SM 4500-P E	WETA/25959		
92281289002	**WFSREff-09**	SM 4500-P E	WETA/25959		
92281289003	**WFSRUP-09**	SM 4500-P E	WETA/25959		
92281289004	**WFSRUP-09-DUP**	SM 4500-P E	WETA/25959		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: TN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSR Down - 09	WT	G	12/28	1220				2	1	1								1	1	1		92281284-001
2	WFSR Eff - 09	WT	G	12/28	1220				2	1	1								1	1	1		002
3	WFSR Up - 09	WT	G	12/28	1233				2	1	1								1	1	1		003
4	WFSR Up - 09 - DUP	WT	G	12/28	1241																		
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* Use lowest detection limits possible *	Rachel O Steibling / AAT	12/28/15	1151	Matt Steiner AVL	12/28/15	1045	3.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rachel O. Steibling

SIGNATURE of SAMPLER: Rachel O. Steibling

DATE Signed (MM/DD/YY): 12/28/15

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 06, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.15	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeter

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: (IR Gun#5 - 155271998) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 3.6 C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/29 MS

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. Orthophoshate
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
All containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		
Samples checked for dechlorination:	☑Yes	☐No	☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):_____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 12/30/19

SRF Review: [signature] Date: 12/30/19

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92281289

92281289

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 11, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92277828001	**WFSRDown-08**	Water	11/30/15 12:44	12/01/15 10:30
92277828002	**WFSRUP-08**	Water	11/30/15 13:04	12/01/15 10:30
92277828003	**WFSREff-08**	Water	11/30/15 12:58	12/01/15 10:30
92277828004	**WFSRDown-09**	Water	11/30/15 13:20	12/01/15 10:30
92277828005	**WFSREff-09**	Water	11/30/15 13:34	12/01/15 10:30
92277828006	**WFSRUP-09**	Water	11/30/15 13:44	12/01/15 10:30
92277828007	**WFSRUP-09-DUP**	Water	11/30/15 00:00	12/01/15 10:30

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92277828001	**WFSRDown-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92277828002	**WFSRUP-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92277828003	**WFSREff-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92277828004	**WFSRDown-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92277828005	**WFSREff-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92277828006	**WFSRUP-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92277828007	**WFSRUP-09-DUP**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Sample: WFSRDown-08 **Lab ID: 92277828001** Collected: 11/30/15 12:44 Received: 12/01/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.041**	mg/L	0.010	1		12/09/15 01:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		12/03/15 03:56	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.2**	mg/L	0.020	1		12/09/15 15:28		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.55**	mg/L	0.050	1		12/03/15 10:41	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**1.3**	mg/L	0.25	5		12/01/15 13:30		M1

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ANALYTICAL RESULTS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Sample: WFSRUP-08 **Lab ID: 92277828002** Collected: 11/30/15 13:04 Received: 12/01/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.035**	mg/L	0.010	1		12/09/15 01:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		12/03/15 03:57	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.83**	mg/L	0.020	1		12/09/15 15:32		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.061**	mg/L	0.050	1		12/03/15 10:42	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.076**	mg/L	0.050	1		12/01/15 13:30		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Sample: WFSREff-08 **Lab ID: 92277828003** Collected: 11/30/15 12:58 Received: 12/01/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.035**	mg/L	0.010	1		12/09/15 01:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.94**	mg/L	0.50	1		12/03/15 03:58	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**3.9**	mg/L	0.020	1		12/09/15 15:33		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**5.3**	mg/L	0.10	2		12/03/15 11:40	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**5.8**	mg/L	1.2	25		12/01/15 13:30		M6

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ANALYTICAL RESULTS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Sample: WFSRDown-09 **Lab ID: 92277828004** Collected: 11/30/15 13:20 Received: 12/01/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.032**	mg/L	0.010	1		12/09/15 01:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		12/03/15 03:59	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.55**	mg/L	0.020	1		12/09/15 15:34		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**1.5**	mg/L	0.050	1		12/03/15 10:43	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**2.4**	mg/L	0.50	10		12/01/15 13:30		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Sample: WFSREff-09 **Lab ID: 92277828005** Collected: 11/30/15 13:34 Received: 12/01/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.027**	mg/L	0.010	1		12/09/15 01:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.92**	mg/L	0.50	1		12/03/15 03:59	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.3**	mg/L	0.020	1		12/10/15 16:10		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**4.4**	mg/L	0.050	1		12/03/15 10:46	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**2.7**	mg/L	0.50	10		12/01/15 13:30		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Sample: WFSRUP-09 **Lab ID: 92277828006** Collected: 11/30/15 13:44 Received: 12/01/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.029**	mg/L	0.010	1		12/09/15 01:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		12/03/15 04:00	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.25**	mg/L	0.020	1		12/10/15 16:13		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.064**	mg/L	0.050	1		12/03/15 10:48	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.19**	mg/L	0.050	1		12/01/15 13:30		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Sample: WFSRUP-09-DUP **Lab ID: 92277828007** Collected: 11/30/15 00:00 Received: 12/01/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.026**	mg/L	0.010	1		12/09/15 01:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		12/03/15 04:01	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.26**	mg/L	0.020	1		12/10/15 16:17		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.064**	mg/L	0.050	1		12/03/15 10:48	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.27**	mg/L	0.050	1		12/01/15 13:30		

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QUALITY CONTROL DATA

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

QC Batch: WETA/25661 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004, 92277828005, 92277828006, 92277828007

METHOD BLANK: 1621670 Matrix: Water
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004, 92277828005, 92277828006, 92277828007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	12/09/15 01:00	

LABORATORY CONTROL SAMPLE: 1621671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.92	92	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1621672 1621673

Parameter	Units	92277933001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.72	1	1	1.1	1.1	36	36	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1621674 1621675

Parameter	Units	92278045012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.050	1	1	0.71	0.71	66	66	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

QC Batch: WETA/25600 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004, 92277828005, 92277828006, 92277828007

METHOD BLANK: 1617674 Matrix: Water
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004, 92277828005, 92277828006, 92277828007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	12/03/15 03:36	

LABORATORY CONTROL SAMPLE: 1617675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617676 1617677

Parameter	Units	92276407001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	8.4	11.4	84	114	90-110	30	10	M1,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617678 1617679

Parameter	Units	92277826005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.59	10	10	11.2	11.1	106	105	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

QC Batch: WETA/25683 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004

METHOD BLANK: 1623291 Matrix: Water
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	12/09/15 15:01	

LABORATORY CONTROL SAMPLE: 1623292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623293 1623294

Parameter	Units	92278887025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.33	2.5	2.5	2.7	2.7	96	96	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1623295 1623296

Parameter	Units	92278887026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.4	2.4	95	95	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

QC Batch: WETA/25706 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92277828005, 92277828006, 92277828007

METHOD BLANK: 1624801 | Matrix: Water
Associated Lab Samples: 92277828005, 92277828006, 92277828007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	12/10/15 15:54	

LABORATORY CONTROL SAMPLE: 1624802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624803 1624804

Parameter	Units	92279154019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.14	2.5	2.5	2.6	2.6	98	98	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624805 1624806

Parameter	Units	92277828006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.25	2.5	2.5	2.7	2.7	98	98	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

QC Batch: WETA/25598 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004, 92277828005, 92277828006, 92277828007

METHOD BLANK: 1617644 | Matrix: Water
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004, 92277828005, 92277828006, 92277828007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	12/03/15 10:33	

LABORATORY CONTROL SAMPLE: 1617645

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617646 1617647

Parameter	Units	92277614002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.86	2.5	2.5	3.4	3.4	101	101	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617648 1617649

Parameter	Units	92277828005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	4.4	2.5	2.5	6.9	6.8	99	96	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

QC Batch: WETA/25588 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004, 92277828005, 92277828006, 92277828007

METHOD BLANK: 1617213 | Matrix: Water
Associated Lab Samples: 92277828001, 92277828002, 92277828003, 92277828004, 92277828005, 92277828006, 92277828007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	12/01/15 13:30	

LABORATORY CONTROL SAMPLE: 1617214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.25	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617215 1617216

Parameter	Units	92277828001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	1.3	1.2	1.2	2.1	2.1	65	65	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1617217 1617218

Parameter	Units	92277828003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	5.8	12.5	12.5	20.6	20.6	118	118	90-110	0	10	M6

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QUALIFIERS

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384 11/30
Pace Project No.: 92277828

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92277828001	**WFSRDown-08**	EPA 350.1	WETA/25661		
92277828002	**WFSRUP-08**	EPA 350.1	WETA/25661		
92277828003	**WFSREff-08**	EPA 350.1	WETA/25661		
92277828004	**WFSRDown-09**	EPA 350.1	WETA/25661		
92277828005	**WFSREff-09**	EPA 350.1	WETA/25661		
92277828006	**WFSRUP-09**	EPA 350.1	WETA/25661		
92277828007	**WFSRUP-09-DUP**	EPA 350.1	WETA/25661		
92277828001	**WFSRDown-08**	EPA 351.2	WETA/25600		
92277828002	**WFSRUP-08**	EPA 351.2	WETA/25600		
92277828003	**WFSREff-08**	EPA 351.2	WETA/25600		
92277828004	**WFSRDown-09**	EPA 351.2	WETA/25600		
92277828005	**WFSREff-09**	EPA 351.2	WETA/25600		
92277828006	**WFSRUP-09**	EPA 351.2	WETA/25600		
92277828007	**WFSRUP-09-DUP**	EPA 351.2	WETA/25600		
92277828001	**WFSRDown-08**	EPA 353.2	WETA/25683		
92277828002	**WFSRUP-08**	EPA 353.2	WETA/25683		
92277828003	**WFSREff-08**	EPA 353.2	WETA/25683		
92277828004	**WFSRDown-09**	EPA 353.2	WETA/25683		
92277828005	**WFSREff-09**	EPA 353.2	WETA/25706		
92277828006	**WFSRUP-09**	EPA 353.2	WETA/25706		
92277828007	**WFSRUP-09-DUP**	EPA 353.2	WETA/25706		
92277828001	**WFSRDown-08**	EPA 365.1	WETA/25598		
92277828002	**WFSRUP-08**	EPA 365.1	WETA/25598		
92277828003	**WFSREff-08**	EPA 365.1	WETA/25598		
92277828004	**WFSRDown-09**	EPA 365.1	WETA/25598		
92277828005	**WFSREff-09**	EPA 365.1	WETA/25598		
92277828006	**WFSRUP-09**	EPA 365.1	WETA/25598		
92277828007	**WFSRUP-09-DUP**	EPA 365.1	WETA/25598		
92277828001	**WFSRDown-08**	SM 4500-P E	WETA/25588		
92277828002	**WFSRUP-08**	SM 4500-P E	WETA/25588		
92277828003	**WFSREff-08**	SM 4500-P E	WETA/25588		
92277828004	**WFSRDown-09**	SM 4500-P E	WETA/25588		
92277828005	**WFSREff-09**	SM 4500-P E	WETA/25588		
92277828006	**WFSRUP-09**	SM 4500-P E	WETA/25588		
92277828007	**WFSRUP-09-DUP**	SM 4500-P E	WETA/25588		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRDown-08	WT	G	11/30/15	1242				2	1	1							N	1	1	1		92277828-001
2	WFSRUP-08	WT	G	11/30/15	1304				2	1	1							N	1	1	1		002
3	WFSREFF-08	WT	G	11/30/15	1258				2	1	1							N	1	1	1		003
4	WFSRDown-09	WT	G	11/30/15	1320				2	1	1							N					004
5	WFSREFF-09	WT	G	11/30/15	1334				2	1	1							N					005
6	WFSRUP-09	WT	G	11/30/15	1344				2	1	1							N					006
7	WFSRUP-09-DUP	WT	G	11/30/15					2	1	1							N					007
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Use lowest detection limits possible		11/30/15	1400	[illegible] AVL	12/1/15	1030	1.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rachel O. Steiblind

SIGNATURE of SAMPLER: Rachel O. Steiblind DATE Signed (MM/DD/YY): 11/30/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 06, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.15	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeTer

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#5 - 155271998 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 1.3 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 12/1 MS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Orthophosate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 12/1/15

SRF Review: [signature] Date: 12/1/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92277828

92277828

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 30, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 11/12
Pace Project No.: 92276107

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project:	Stones BOD 11/12
Pace Project No.:	92276107

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 11/12
Pace Project No.: 92276107

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92276107001	**WFSRDOWN-09**	Water	11/12/15 12:14	11/13/15 12:45
92276107002	**WFSREFF-09**	Water	11/12/15 12:21	11/13/15 12:45
92276107003	**WFSRUP-09**	Water	11/12/15 12:28	11/13/15 12:45
92276107004	**WFSRUP-09-DUP**	Water	11/12/15 12:37	11/13/15 12:45

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SAMPLE ANALYTE COUNT

Project: Stones BOD 11/12
Pace Project No.: 92276107

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92276107001	**WFSRDOWN-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	BRJ	1	PASI-A
		SM 4500-P E	SER	1	PASI-A
92276107002	**WFSREFF-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	BRJ	1	PASI-A
		SM 4500-P E	SER	1	PASI-A
92276107003	**WFSRUP-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	BRJ	1	PASI-A
		SM 4500-P E	SER	1	PASI-A
92276107004	**WFSRUP-09-DUP**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	BRJ	1	PASI-A
		SM 4500-P E	SER	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 11/12
Pace Project No.: 92276107

Sample: WFSRDOWN-09 **Lab ID: 92276107001** Collected: 11/12/15 12:14 Received: 11/13/15 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.13**	mg/L	0.010	1		11/17/15 13:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/18/15 02:07	7727-37-9	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.54**	mg/L	0.020	1		11/25/15 17:00		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**1.4**	mg/L	0.050	1		11/18/15 03:12	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**1.6**	mg/L	0.50	10		11/14/15 10:32		M6

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ANALYTICAL RESULTS

Project: Stones BOD 11/12
Pace Project No.: 92276107

Sample: WFSREFF-09 **Lab ID: 92276107002** Collected: 11/12/15 12:21 Received: 11/13/15 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.11**	mg/L	0.010	1		11/17/15 13:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.71**	mg/L	0.50	1		11/18/15 02:09	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.3**	mg/L	0.020	1		11/25/15 17:03		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**4.2**	mg/L	0.050	1		11/18/15 03:13	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**4.0**	mg/L	0.50	10		11/14/15 10:32		

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ANALYTICAL RESULTS

Project: Stones BOD 11/12
Pace Project No.: 92276107

Sample: WFSRUP-09 **Lab ID: 92276107003** Collected: 11/12/15 12:28 Received: 11/13/15 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.11**	mg/L	0.010	1		11/17/15 13:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/18/15 02:10	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.23**	mg/L	0.020	1		11/25/15 17:06		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.062**	mg/L	0.050	1		11/18/15 03:14	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.12**	mg/L	0.050	1		11/14/15 10:32		

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ANALYTICAL RESULTS

Project: Stones BOD 11/12
Pace Project No.: 92276107

Sample: WFSRUP-09-DUP **Lab ID: 92276107004** Collected: 11/12/15 12:37 Received: 11/13/15 12:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.16**	mg/L	0.010	1		11/17/15 13:00	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/18/15 02:11	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.25**	mg/L	0.020	1		11/25/15 17:07		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.052**	mg/L	0.050	1		11/18/15 03:16	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.13**	mg/L	0.050	1		11/14/15 10:32		

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QUALITY CONTROL DATA

Project: Stones BOD 11/12
Pace Project No.: 92276107

QC Batch: WETA/25430 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

METHOD BLANK: 1608286 Matrix: Water
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	11/17/15 13:00	

LABORATORY CONTROL SAMPLE: 1608287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.91	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1608288 1608289

Parameter	Units	92275827001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.14	1	1	0.51	0.51	37	38	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 11/12
Pace Project No.: 92276107

QC Batch: WETA/25409 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

METHOD BLANK: 1607259 Matrix: Water
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	11/18/15 01:51	

LABORATORY CONTROL SAMPLE: 1607260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607261 1607262

Parameter	Units	92275926002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	3.5	10	10	12.7	13.3	92	97	90-110	4	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607263 1607264

Parameter	Units	92276107001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	9.2	9.5	89	92	90-110	3	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 11/12
Pace Project No.: 92276107

QC Batch: WETA/25534 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

METHOD BLANK: 1614722 | Matrix: Water
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	11/25/15 16:57	

LABORATORY CONTROL SAMPLE: 1614723

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1614724 1614725

Parameter	Units	92276107001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.54	2.5	2.5	2.8	2.9	92	92	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1614726 1614727

Parameter	Units	92276107002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	1.3	2.5	2.5	3.6	3.6	92	92	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 11/12
Pace Project No.: 92276107

QC Batch: WETA/25413 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

METHOD BLANK: 1607525 Matrix: Water
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	11/18/15 02:54	

LABORATORY CONTROL SAMPLE: 1607526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607527 1607528

Parameter	Units	92275784001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.77	2.5	2.5	3.4	3.3	104	101	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607529 1607530

Parameter	Units	92276004002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.73	2.5	2.5	3.2	3.2	101	100	90-110	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 11/12
Pace Project No.: 92276107

QC Batch: WETA/25403 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

METHOD BLANK: 1607059 | Matrix: Water
Associated Lab Samples: 92276107001, 92276107002, 92276107003, 92276107004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	11/14/15 10:32	

LABORATORY CONTROL SAMPLE: 1607060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.23	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1607061 1607062

Parameter	Units	92276107001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	1.6	2.5	2.5	3.7	3.7	85	86	90-110	1	10	M6

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 11/12
Pace Project No.: 92276107

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 11/12
Pace Project No.: 92276107

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92276107001	**WFSRDOWN-09**	EPA 350.1	WETA/25430		
92276107002	**WFSREFF-09**	EPA 350.1	WETA/25430		
92276107003	**WFSRUP-09**	EPA 350.1	WETA/25430		
92276107004	**WFSRUP-09-DUP**	EPA 350.1	WETA/25430		
92276107001	**WFSRDOWN-09**	EPA 351.2	WETA/25409		
92276107002	**WFSREFF-09**	EPA 351.2	WETA/25409		
92276107003	**WFSRUP-09**	EPA 351.2	WETA/25409		
92276107004	**WFSRUP-09-DUP**	EPA 351.2	WETA/25409		
92276107001	**WFSRDOWN-09**	EPA 353.2	WETA/25534		
92276107002	**WFSREFF-09**	EPA 353.2	WETA/25534		
92276107003	**WFSRUP-09**	EPA 353.2	WETA/25534		
92276107004	**WFSRUP-09-DUP**	EPA 353.2	WETA/25534		
92276107001	**WFSRDOWN-09**	EPA 365.1	WETA/25413		
92276107002	**WFSREFF-09**	EPA 365.1	WETA/25413		
92276107003	**WFSRUP-09**	EPA 365.1	WETA/25413		
92276107004	**WFSRUP-09-DUP**	EPA 365.1	WETA/25413		
92276107001	**WFSRDOWN-09**	SM 4500-P E	WETA/25403		
92276107002	**WFSREFF-09**	SM 4500-P E	WETA/25403		
92276107003	**WFSRUP-09**	SM 4500-P E	WETA/25403		
92276107004	**WFSRUP-09-DUP**	SM 4500-P E	WETA/25403		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRDown-09	WT	G			11/2/15	1214		2	1	1							N	1	1	1		92276107-001
2	WFSREff-09	WT	G			11/2/15	1221		2	1	1							N	1	1	1		002
3	WFSRUp-09	WT	G			11/2/15	1228		2	1	1							N	1	1	1		003
4	WFSRUp-09-DUP	WT	G			11/2/15	1237		2	1	1							N	1	1	1		004
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
☆ Use lowest detection limits possible ☆	Kate Lopez/AAT	11/2/15	1245	Matt Stewart AVL	11/3/15	1600	2.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kate Lopez

SIGNATURE of SAMPLER: Kate Lopez

DATE Signed (MM/DD/YY): 11/2/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: November 06, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.15	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeFer Inc.

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: (IR Gun#5 - 155271998) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 2.5 C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 11/13 MS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Orthophosphate
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. ASAP
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 11/16/15

SRF Review: [signature] Date: 11/16/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place Label here

WO# : 92276107

92276107

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 11, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 10/27
Pace Project No.: 92273658

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 10/27
Pace Project No.: 92273658

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92273658001	**WFSRDown-07**	Water	10/27/15 12:50	10/28/15 10:30
92273658002	**WFSREFF-07**	Water	10/27/15 13:05	10/28/15 10:30
92273658003	**WFSRUP-07**	Water	10/27/15 13:14	10/28/15 10:30
92273658004	**WFSRDOWN-08**	Water	10/27/15 13:21	10/28/15 10:30
92273658005	**WFSRUP-08**	Water	10/27/15 13:30	10/28/15 10:30
92273658006	**WFSREFF-08**	Water	10/27/15 13:35	10/28/15 10:30
92273658007	**WFSRDOWN-09**	Water	10/27/15 13:51	10/28/15 10:30
92273658008	**WFSREFF-09**	Water	10/27/15 13:59	10/28/15 10:30
92273658009	**WFSRUP-09**	Water	10/27/15 14:06	10/28/15 10:30
92273658010	**WFSRUP-09-DUP**	Water	10/27/15 14:15	10/28/15 10:30

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SAMPLE ANALYTE COUNT

Project: Stones BOD 10/27
Pace Project No.: 92273658

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92273658001	**WFSRDown-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658002	**WFSREFF-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658003	**WFSRUP-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658004	**WFSRDOWN-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658005	**WFSRUP-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658006	**WFSREFF-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658007	**WFSRDOWN-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658008	**WFSREFF-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: Stones BOD 10/27
Pace Project No.: 92273658

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658009	**WFSRUP-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92273658010	**WFSRUP-09-DUP**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSRDown-07 **Lab ID: 92273658001** Collected: 10/27/15 12:50 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/03/15 03:45	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.47**	mg/L	0.020	1		11/10/15 10:26		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.48**	mg/L	0.050	1		11/03/15 04:02	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.81**	mg/L	0.25	5		10/28/15 14:00		M1

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSREFF-07 **Lab ID: 92273658002** Collected: 10/27/15 13:05 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.62**	mg/L	0.50	1		11/03/15 03:46	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.95**	mg/L	0.020	1		11/10/15 10:28		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**3.3**	mg/L	0.050	1		11/03/15 04:08	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**4.8**	mg/L	1.0	20		10/28/15 14:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSRUP-07 **Lab ID: 92273658003** Collected: 10/27/15 13:14 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/03/15 03:47	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.24**	mg/L	0.020	1		11/10/15 10:31		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		11/03/15 04:02	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.19**	mg/L	0.050	1		10/28/15 14:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSRDOWN-08 **Lab ID: 92273658004** Collected: 10/27/15 13:21 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/03/15 03:47	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.020	1		11/10/15 10:32		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.51**	mg/L	0.050	1		11/03/15 04:10	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.64**	mg/L	0.25	5		10/28/15 14:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSRUP-08 **Lab ID: 92273658005** Collected: 10/27/15 13:30 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/03/15 03:48	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.81**	mg/L	0.020	1		11/10/15 10:33		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		11/03/15 04:11	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.22**	mg/L	0.050	1		10/28/15 14:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSREFF-08 **Lab ID: 92273658006** Collected: 10/27/15 13:35 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.60**	mg/L	0.50	1		11/03/15 03:49	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**3.8**	mg/L	0.020	1		11/10/15 10:35		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**5.2**	mg/L	0.25	5		11/03/15 05:34	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**6.0**	mg/L	1.2	25		10/28/15 14:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSRDOWN-09 **Lab ID: 92273658007** Collected: 10/27/15 13:51 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/03/15 03:50	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.51**	mg/L	0.020	1		11/10/15 10:36		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**1.4**	mg/L	0.050	1		11/03/15 04:12	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**1.6**	mg/L	0.50	10		10/28/15 14:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSREFF-09 **Lab ID: 92273658008** Collected: 10/27/15 13:59 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.032**	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.96**	mg/L	0.50	1		11/05/15 03:13	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.2**	mg/L	0.020	1		11/10/15 10:37		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**4.3**	mg/L	0.050	1		11/03/15 04:13	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**4.1**	mg/L	0.50	10		10/28/15 14:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSRUP-09 **Lab ID: 92273658009** Collected: 10/27/15 14:06 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/05/15 03:18	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.20**	mg/L	0.020	1		11/10/15 17:06		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		11/03/15 04:14	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.10**	mg/L	0.050	1		10/28/15 14:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/27
Pace Project No.: 92273658

Sample: WFSRUP-09-DUP **Lab ID: 92273658010** Collected: 10/27/15 14:15 Received: 10/28/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		11/04/15 12:20	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		11/05/15 03:18	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.22**	mg/L	0.020	1		11/10/15 17:09		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		11/03/15 04:15	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.18**	mg/L	0.050	1		10/28/15 14:00		

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QUALITY CONTROL DATA

Project: Stones BOD 10/27
Pace Project No.: 92273658

QC Batch: WETA/25256 — Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 — Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007, 92273658008, 92273658009, 92273658010

METHOD BLANK: 1598468 — Matrix: Water
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007, 92273658008, 92273658009, 92273658010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	11/04/15 12:20	

LABORATORY CONTROL SAMPLE: 1598469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.97	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1598470 — 1598471

Parameter	Units	92274192001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	1	1	0.65	0.65	65	65	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1598472 — 1598473

Parameter	Units	92274192002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	1	1	0.66	0.67	66	67	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 10/27
Pace Project No.: 92273658

QC Batch: WETA/25208 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007

METHOD BLANK: 1596250 Matrix: Water
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	11/03/15 03:37	

LABORATORY CONTROL SAMPLE: 1596251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596252 1596253

Parameter	Units	92273646007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.61	10	10	10.3	11.0	97	104	90-110	7	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/27
Pace Project No.: 92273658

QC Batch: WETA/25215 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92273658008, 92273658009, 92273658010

METHOD BLANK: 1596566 Matrix: Water
Associated Lab Samples: 92273658008, 92273658009, 92273658010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	11/05/15 03:11	

LABORATORY CONTROL SAMPLE: 1596567

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.1	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596568 1596569

Parameter	Units	92273658008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.96	10	10	11.5	11.3	105	103	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 10/27
Pace Project No.: 92273658

QC Batch: WETA/25325 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007, 92273658008

METHOD BLANK: 1602429 | Matrix: Water
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007, 92273658008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	11/10/15 10:04	

LABORATORY CONTROL SAMPLE: 1602430

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1602431 1602432

Parameter	Units	92273568001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	6.2	2.5	2.5	9.3	9.3	124	124	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1602433 1602434

Parameter	Units	92274121003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.22	2.5	2.5	2.5	2.5	91	92	75-125	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/27
Pace Project No.: 92273658

QC Batch: WETA/25336 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92273658009, 92273658010

METHOD BLANK: 1602993 | Matrix: Water
Associated Lab Samples: 92273658009, 92273658010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	11/10/15 17:04	

LABORATORY CONTROL SAMPLE: 1602994

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1602995 1602996

Parameter	Units	92273658009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.20	2.5	2.5	2.7	2.7	101	101	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1602997 1602998

Parameter	Units	92273658010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.22	2.5	2.5	2.7	2.7	99	99	75-125	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/27
Pace Project No.: 92273658

QC Batch: WETA/25185 — Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 — Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007, 92273658008, 92273658009, 92273658010

METHOD BLANK: 1595330 — Matrix: Water
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007, 92273658008, 92273658009, 92273658010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	11/03/15 03:55	

LABORATORY CONTROL SAMPLE: 1595331

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595332 — 1595333

Parameter	Units	92273568001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	5.0	2.5	2.5	7.6	7.6	105	107	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595334 — 1595335

Parameter	Units	92273658002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	3.3	2.5	2.5	5.7	5.7	97	95	90-110	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/27
Pace Project No.: 92273658

QC Batch: WETA/25155 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007, 92273658008, 92273658009, 92273658010

METHOD BLANK: 1593428 | Matrix: Water
Associated Lab Samples: 92273658001, 92273658002, 92273658003, 92273658004, 92273658005, 92273658006, 92273658007, 92273658008, 92273658009, 92273658010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	10/28/15 14:00	

LABORATORY CONTROL SAMPLE: 1593429

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.26	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1593430 1593431

Parameter	Units	92273658001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	0.81	1.2	1.2	1.9	1.9	88	88	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 10/27
Pace Project No.: 92273658

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 10/27
Pace Project No.: 92273658

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92273658001	**WFSRDown-07**	EPA 350.1	WETA/25256		
92273658002	**WFSREFF-07**	EPA 350.1	WETA/25256		
92273658003	**WFSRUP-07**	EPA 350.1	WETA/25256		
92273658004	**WFSRDOWN-08**	EPA 350.1	WETA/25256		
92273658005	**WFSRUP-08**	EPA 350.1	WETA/25256		
92273658006	**WFSREFF-08**	EPA 350.1	WETA/25256		
92273658007	**WFSRDOWN-09**	EPA 350.1	WETA/25256		
92273658008	**WFSREFF-09**	EPA 350.1	WETA/25256		
92273658009	**WFSRUP-09**	EPA 350.1	WETA/25256		
92273658010	**WFSRUP-09-DUP**	EPA 350.1	WETA/25256		
92273658001	**WFSRDown-07**	EPA 351.2	WETA/25208		
92273658002	**WFSREFF-07**	EPA 351.2	WETA/25208		
92273658003	**WFSRUP-07**	EPA 351.2	WETA/25208		
92273658004	**WFSRDOWN-08**	EPA 351.2	WETA/25208		
92273658005	**WFSRUP-08**	EPA 351.2	WETA/25208		
92273658006	**WFSREFF-08**	EPA 351.2	WETA/25208		
92273658007	**WFSRDOWN-09**	EPA 351.2	WETA/25208		
92273658008	**WFSREFF-09**	EPA 351.2	WETA/25215		
92273658009	**WFSRUP-09**	EPA 351.2	WETA/25215		
92273658010	**WFSRUP-09-DUP**	EPA 351.2	WETA/25215		
92273658001	**WFSRDown-07**	EPA 353.2	WETA/25325		
92273658002	**WFSREFF-07**	EPA 353.2	WETA/25325		
92273658003	**WFSRUP-07**	EPA 353.2	WETA/25325		
92273658004	**WFSRDOWN-08**	EPA 353.2	WETA/25325		
92273658005	**WFSRUP-08**	EPA 353.2	WETA/25325		
92273658006	**WFSREFF-08**	EPA 353.2	WETA/25325		
92273658007	**WFSRDOWN-09**	EPA 353.2	WETA/25325		
92273658008	**WFSREFF-09**	EPA 353.2	WETA/25325		
92273658009	**WFSRUP-09**	EPA 353.2	WETA/25336		
92273658010	**WFSRUP-09-DUP**	EPA 353.2	WETA/25336		
92273658001	**WFSRDown-07**	EPA 365.1	WETA/25185		
92273658002	**WFSREFF-07**	EPA 365.1	WETA/25185		
92273658003	**WFSRUP-07**	EPA 365.1	WETA/25185		
92273658004	**WFSRDOWN-08**	EPA 365.1	WETA/25185		
92273658005	**WFSRUP-08**	EPA 365.1	WETA/25185		
92273658006	**WFSREFF-08**	EPA 365.1	WETA/25185		
92273658007	**WFSRDOWN-09**	EPA 365.1	WETA/25185		
92273658008	**WFSREFF-09**	EPA 365.1	WETA/25185		
92273658009	**WFSRUP-09**	EPA 365.1	WETA/25185		
92273658010	**WFSRUP-09-DUP**	EPA 365.1	WETA/25185		
92273658001	**WFSRDown-07**	SM 4500-P E	WETA/25155		
92273658002	**WFSREFF-07**	SM 4500-P E	WETA/25155		
92273658003	**WFSRUP-07**	SM 4500-P E	WETA/25155		
92273658004	**WFSRDOWN-08**	SM 4500-P E	WETA/25155		
92273658005	**WFSRUP-08**	SM 4500-P E	WETA/25155		
92273658006	**WFSREFF-08**	SM 4500-P E	WETA/25155		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 10/27
Pace Project No.: 92273658

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92273658007	**WFSRDOWN-09**	SM 4500-P E	WETA/25155		
92273658008	**WFSREFF-09**	SM 4500-P E	WETA/25155		
92273658009	**WFSRUP-09**	SM 4500-P E	WETA/25155		
92273658010	**WFSRUP-09-DUP**	SM 4500-P E	WETA/25155		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Orthophosphate (N)	$NO_3 + NO_2$, TP, Ammonia (N)	TKN (N)								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRDown-07	WT	G	10/27	1250				2	1	1								1	1	1								92273658-001
2	WFSREFF-07	WT	G	10/27	1305				2	1	1								1	1	1								002
3	WFSRUP-07	WT	G	10/27	1314				2	1	1								1	1	1								003
4	WFSRDOWN-08	WT	G	10/27	1321				2	1	1								1	1	1								004
5	WFSRUP-08	WT	G	10/27	1330				2	1	1								1	1	1								005
6	WFSREFF-08	WT	G	10/27	1335				2	1	1								1	1	1								006
7	WFSRDown-09	WT	G	10/27	1351				2	1	1								1	1	1								007
8	WFSREFF-09	WT	G	10/27	1359				2	1	1								1	1	1								008
9	WFSRUP-09	WT	G	10/27	1406				2	1	1								1	1	1								009
10	WFSRUP-09-DUP	WT	G	10/27	1415				2	1	1								1	1	1								010
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
* Use lowest detection limits possible *	Rachel O. Steinling / AET	10/27/15	1420	Matt Stearns / AVL	10/28/15	1030	2.7	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rachel O. Steinling

SIGNATURE of SAMPLER: Rachel O. Steinling

DATE Signed (MM/DD/YY): 10/27/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeTer

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 2.7 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: 10/28 MS

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Orthophosate
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. ASAP
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 10/28/15

SRF Review: [signature] Date: 10/28/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92273658

92273658

Pace Analytical Services, Inc.
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(704)875-9092

November 02, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on October 20, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92272448001	**WFSRDOWN-09**	Water	10/19/15 08:50	10/20/15 10:30
92272448002	**WFSR Eff-09**	Water	10/19/15 09:02	10/20/15 10:30
92272448003	**WFSR UP-09**	Water	10/19/15 09:13	10/20/15 10:30
92272448004	**WFSUP-09-DUP**	Water	10/19/15 09:20	10/20/15 10:30

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92272448001	**WFSRDOWN-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	BRJ	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92272448002	**WFSR Eff-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	BRJ	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92272448003	**WFSR UP-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92272448004	**WFSUP-09-DUP**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Sample: WFSRDOWN-09 **Lab ID: 92272448001** Collected: 10/19/15 08:50 Received: 10/20/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		10/28/15 13:50	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/23/15 04:33	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.48**	mg/L	0.020	1		10/30/15 12:18		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**1.4**	mg/L	0.050	1		10/24/15 12:18	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**1.8**	mg/L	0.50	10		10/20/15 15:45		M6

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ANALYTICAL RESULTS

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Sample: WFSR Eff-09 **Lab ID: 92272448002** Collected: 10/19/15 09:02 Received: 10/20/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.054**	mg/L	0.010	1		10/28/15 13:50	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.72**	mg/L	0.50	1		10/23/15 04:34	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.020	1		10/30/15 12:19		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**4.4**	mg/L	0.050	1		10/24/15 12:19	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**4.0**	mg/L	0.50	10		10/20/15 15:45		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Sample: WFSR UP-09 **Lab ID: 92272448003** Collected: 10/19/15 09:13 Received: 10/20/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		10/28/15 13:50	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/28/15 02:06	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.19**	mg/L	0.020	1		11/02/15 14:38		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.057**	mg/L	0.050	1		10/24/15 12:21	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.11**	mg/L	0.050	1		10/20/15 15:45		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Sample: WFSUP-09-DUP **Lab ID: 92272448004** Collected: 10/19/15 09:20 Received: 10/20/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		10/28/15 13:50	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/28/15 02:07	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.21**	mg/L	0.020	1		11/02/15 14:42		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.054**	mg/L	0.050	1		10/24/15 12:22	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.12**	mg/L	0.050	1		10/20/15 15:45		

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QUALITY CONTROL DATA

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

QC Batch: WETA/25143 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92272448001, 92272448002, 92272448003, 92272448004

METHOD BLANK: 1592970 | Matrix: Water
Associated Lab Samples: 92272448001, 92272448002, 92272448003, 92272448004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	10/28/15 13:50	

LABORATORY CONTROL SAMPLE: 1592971

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1592972 1592973

Parameter	Units	92271952016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.010	1	1	0.44	0.44	43	43	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1592974 1592975

Parameter	Units	92272162001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	ND	1	1	0.83	0.83	83	83	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

QC Batch: WETA/25069 | Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 | Analysis Description: 351.2 TKN
Associated Lab Samples: 92272448001, 92272448002

METHOD BLANK: 1588625 | Matrix: Water
Associated Lab Samples: 92272448001, 92272448002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	10/23/15 04:19	

LABORATORY CONTROL SAMPLE: 1588626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1588627 1588628

Parameter	Units	92272353006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.54	10	10	10.7	11.0	101	104	90-110	3	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

QC Batch: WETA/25113 | Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 | Analysis Description: 351.2 TKN
Associated Lab Samples: 92272448003, 92272448004

METHOD BLANK: 1591211 | Matrix: Water
Associated Lab Samples: 92272448003, 92272448004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	10/28/15 01:55	

LABORATORY CONTROL SAMPLE: 1591212

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591213 1591214

Parameter	Units	92273018001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	3.9	10	10	15.0	14.0	111	100	90-110	7	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1591215 1591216

Parameter	Units	92272569001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	16.9	10	10	28.8	27.6	119	106	90-110	5	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

QC Batch: WETA/25200 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92272448001, 92272448002

METHOD BLANK: 1595589 | Matrix: Water
Associated Lab Samples: 92272448001, 92272448002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	10/30/15 11:48	

LABORATORY CONTROL SAMPLE: 1595590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595591 1595592

Parameter	Units	92272350005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.034	2.5	2.5	2.3	2.3	92	92	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1595593 1595594

Parameter	Units	92272350006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	2.8	2.5	2.5	5.1	5.1	92	92	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

QC Batch: WETA/25221 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92272448003, 92272448004

METHOD BLANK: 1596819 | Matrix: Water
Associated Lab Samples: 92272448003, 92272448004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	11/02/15 14:36	

LABORATORY CONTROL SAMPLE: 1596820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596821 1596822

Parameter	Units	92272448003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.19	2.5	2.5	2.7	2.7	99	99	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1596823 1596824

Parameter	Units	92272448004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.21	2.5	2.5	2.8	2.8	102	102	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

QC Batch: WETA/25093 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92272448001, 92272448002, 92272448003, 92272448004

METHOD BLANK: 1589985 Matrix: Water
Associated Lab Samples: 92272448001, 92272448002, 92272448003, 92272448004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	10/24/15 11:59	

LABORATORY CONTROL SAMPLE: 1589986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589987 1589988

Parameter	Units	92271697007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	28.8	2.5	2.5	30.8	31.0	79	89	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589989 1589990

Parameter	Units	92272353007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	11.0	2.5	2.5	13.5	13.4	99	93	90-110	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

QC Batch: WETA/25044 — Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E — Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92272448001, 92272448002, 92272448003, 92272448004

METHOD BLANK: 1586853 — Matrix: Water
Associated Lab Samples: 92272448001, 92272448002, 92272448003, 92272448004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	10/20/15 15:45	

LABORATORY CONTROL SAMPLE: 1586854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.22	90	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586855 1586856

Parameter	Units	92272448001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	1.8	2.5	2.5	3.7	3.7	79	79	90-110	0	10	M6

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384 10/19
Pace Project No.: 92272448

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92272448001	**WFSRDOWN-09**	EPA 350.1	WETA/25143		
92272448002	**WFSR Eff-09**	EPA 350.1	WETA/25143		
92272448003	**WFSR UP-09**	EPA 350.1	WETA/25143		
92272448004	**WFSUP-09-DUP**	EPA 350.1	WETA/25143		
92272448001	**WFSRDOWN-09**	EPA 351.2	WETA/25069		
92272448002	**WFSR Eff-09**	EPA 351.2	WETA/25069		
92272448003	**WFSR UP-09**	EPA 351.2	WETA/25113		
92272448004	**WFSUP-09-DUP**	EPA 351.2	WETA/25113		
92272448001	**WFSRDOWN-09**	EPA 353.2	WETA/25200		
92272448002	**WFSR Eff-09**	EPA 353.2	WETA/25200		
92272448003	**WFSR UP-09**	EPA 353.2	WETA/25221		
92272448004	**WFSUP-09-DUP**	EPA 353.2	WETA/25221		
92272448001	**WFSRDOWN-09**	EPA 365.1	WETA/25093		
92272448002	**WFSR Eff-09**	EPA 365.1	WETA/25093		
92272448003	**WFSR UP-09**	EPA 365.1	WETA/25093		
92272448004	**WFSUP-09-DUP**	EPA 365.1	WETA/25093		
92272448001	**WFSRDOWN-09**	SM 4500-P E	WETA/25044		
92272448002	**WFSR Eff-09**	SM 4500-P E	WETA/25044		
92272448003	**WFSR UP-09**	SM 4500-P E	WETA/25044		
92272448004	**WFSUP-09-DUP**	SM 4500-P E	WETA/25044		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	Orthophosphate N	NO_3+NO_2, TP, Ammonia N	TKN N								Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSR DOWN-09	WT	G			10/19/15	0850		2	1	1								1	1	1								92272448-001
2	WFSR EFF-09	WT	G			10/19/15	0902		2	1	1								1	1	1								002
3	WFSR UP-09	WT	G			10/19/15	0913		2	1	1								1	1	1								003
4	WFSR UP-09-DUP	WT	G			10/19/15	0920		2	1	1								1	1	1								004
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Use lowest detection limits possible	Katie Lopez / AAT	10/19/15	0925	[signature]	10/20/15	10:30	0.4	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Lopez

SIGNATURE of SAMPLER: Katie Lopez

DATE Signed (MM/DD/YY): 10/19/15

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

* Page 2 of 2 is for Internal Use Only

Client Name: Aquaeter

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 0.4 C **Biological Tissue is Frozen:** Yes No N/A

Date and Initials of person examining contents: RDB 10/20/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☐No ☑N/A	6. ortho
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WW		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	RDB 10/20/15
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 10/21/15

SRF Review: [signature] Date: 10/21/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92272448

92272448

Pace Analytical Services, Inc.
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(704)875-9092

October 26, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 10/12
Pace Project No.: 92271513

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on October 13, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

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CERTIFICATIONS

Project:	Stones BOD 10/12
Pace Project No.:	92271513

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 10/12
Pace Project No.: 92271513

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92271513001	**WFSRDown-08**	Water	10/12/15 12:20	10/13/15 10:30
92271513002	**WFSRUP-08**	Water	10/12/15 12:35	10/13/15 10:30
92271513003	**WFSREff-08**	Water	10/12/15 12:43	10/13/15 10:30

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SAMPLE ANALYTE COUNT

Project: Stones BOD 10/12
Pace Project No.: 92271513

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92271513001	**WFSRDown-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92271513002	**WFSRUP-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92271513003	**WFSREff-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 10/12
Pace Project No.: 92271513

Sample: WFSRDown-08 **Lab ID: 92271513001** Collected: 10/12/15 12:20 Received: 10/13/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.19**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/22/15 07:11	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.2**	mg/L	0.020	1		10/24/15 08:54		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.51**	mg/L	0.050	1		10/21/15 05:52	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.61**	mg/L	0.25	5		10/13/15 17:30		

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ANALYTICAL RESULTS

Project: Stones BOD 10/12
Pace Project No.: 92271513

Sample: WFSRUP-08 **Lab ID: 92271513002** Collected: 10/12/15 12:35 Received: 10/13/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.16**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/22/15 07:12	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.81**	mg/L	0.020	1		10/24/15 08:56		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.068**	mg/L	0.050	1		10/21/15 05:53	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.077**	mg/L	0.050	1		10/13/15 17:30		

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ANALYTICAL RESULTS

Project: Stones BOD 10/12
Pace Project No.: 92271513

Sample: WFSREff-08 **Lab ID: 92271513003** Collected: 10/12/15 12:43 Received: 10/13/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.11**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/22/15 07:12	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**3.8**	mg/L	0.020	1		10/24/15 08:57		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**5.1**	mg/L	0.10	2		10/21/15 06:12	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**5.2**	mg/L	1.2	25		10/13/15 17:30		

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QUALITY CONTROL DATA

Project: Stones BOD 10/12
Pace Project No.: 92271513

QC Batch: WETA/24985 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92271513001, 92271513002, 92271513003

METHOD BLANK: 1583714 Matrix: Water
Associated Lab Samples: 92271513001, 92271513002, 92271513003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	10/15/15 14:30	

LABORATORY CONTROL SAMPLE: 1583715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1583716 1583717

Parameter	Units	92271226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.10	1	1	0.42	0.43	31	32	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1583718 1583719

Parameter	Units	92271952013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.28	1	1	0.37	0.38	10	10	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 10/12
Pace Project No.: 92271513

QC Batch: WETA/25053 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92271513001, 92271513002, 92271513003

METHOD BLANK: 1587327 Matrix: Water
Associated Lab Samples: 92271513001, 92271513002, 92271513003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	10/22/15 07:03	

LABORATORY CONTROL SAMPLE: 1587328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.4	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587329 1587330

Parameter	Units	92272370001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	20.2	10	10	31.5	32.4	114	123	90-110	3	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 10/12
Pace Project No.: 92271513

QC Batch: WETA/25095 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92271513001, 92271513002, 92271513003

METHOD BLANK: 1589995 | Matrix: Water
Associated Lab Samples: 92271513001, 92271513002, 92271513003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	10/24/15 08:47	

LABORATORY CONTROL SAMPLE: 1589996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589997 1589998

Parameter	Units	92272049001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.054	2.5	2.5	2.3	2.3	88	88	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1589999 1590000

Parameter	Units	92271578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.4	2.4	94	95	75-125	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/12
Pace Project No.: 92271513

QC Batch: WETA/25037 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92271513001, 92271513002, 92271513003

METHOD BLANK: 1586571 Matrix: Water
Associated Lab Samples: 92271513001, 92271513002, 92271513003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	10/21/15 05:44	

LABORATORY CONTROL SAMPLE: 1586572

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586573 1586574

Parameter	Units	92272242001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	262	2.5	2.5	260	260	-56	-61	90-110	0	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586575 1586576

Parameter	Units	92271582001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	11.4	2.5	2.5	13.8	14.1	94	107	90-110	2	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/12
Pace Project No.: 92271513

QC Batch: WETA/24952 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92271513001, 92271513002, 92271513003

METHOD BLANK: 1581807 | Matrix: Water
Associated Lab Samples: 92271513001, 92271513002, 92271513003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	10/13/15 17:30	

LABORATORY CONTROL SAMPLE: 1581808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.25	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1581809 1581810

Parameter	Units	92271513001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	0.61	1.2	1.2	1.8	1.8	98	98	90-110	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 10/12
Pace Project No.: 92271513

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 10/12
Pace Project No.: 92271513

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92271513001	**WFSRDown-08**	EPA 350.1	WETA/24985		
92271513002	**WFSRUP-08**	EPA 350.1	WETA/24985		
92271513003	**WFSREff-08**	EPA 350.1	WETA/24985		
92271513001	**WFSRDown-08**	EPA 351.2	WETA/25053		
92271513002	**WFSRUP-08**	EPA 351.2	WETA/25053		
92271513003	**WFSREff-08**	EPA 351.2	WETA/25053		
92271513001	**WFSRDown-08**	EPA 353.2	WETA/25095		
92271513002	**WFSRUP-08**	EPA 353.2	WETA/25095		
92271513003	**WFSREff-08**	EPA 353.2	WETA/25095		
92271513001	**WFSRDown-08**	EPA 365.1	WETA/25037		
92271513002	**WFSRUP-08**	EPA 365.1	WETA/25037		
92271513003	**WFSREff-08**	EPA 365.1	WETA/25037		
92271513001	**WFSRDown-08**	SM 4500-P E	WETA/24952		
92271513002	**WFSRUP-08**	SM 4500-P E	WETA/24952		
92271513003	**WFSREff-08**	SM 4500-P E	WETA/24952		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRDown - 08	WT	G	10/12/15	1220				2	1	1							N	1	1	1		92371513-001
2	WFSRUp-08	WT	G	10/12/15	1235				2	1	1							N	1	1	1		002
3	WFSREFF-08	WT	G	10/12/15	1243				2	1	1							N	1	1	1		003
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* Use lowest detection limits possible *				[illegible]	10/13/15	1036	3.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: JERROD MANNING

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/12/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquaTer

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 3.3 C **Biological Tissue is Frozen:** Yes No N/A **Date and Initials of person examining contents:** 10/13 MD

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Ortho Phosphate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Field Data Required? Y / N

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] **Date:** 10/13/15

SRF Review: [signature] **Date:** 10/13/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92271513

92271513

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

October 23, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 10/8
Pace Project No.: 92271226

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

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CERTIFICATIONS

Project:	Stones BOD 10/8
Pace Project No.:	92271226

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 10/8
Pace Project No.: 92271226

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92271226001	**WFSRDOWN-09**	Water	10/08/15 14:08	10/09/15 10:15
92271226002	**WFSREFF-09**	Water	10/08/15 14:14	10/09/15 10:15
92271226003	**WFSRUP-09**	Water	10/08/15 14:22	10/09/15 10:15
92271226004	**WFSRUP-09-DUP**	Water	10/08/15 14:28	10/09/15 10:15

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SAMPLE ANALYTE COUNT

Project: Stones BOD 10/8
Pace Project No.: 92271226

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92271226001	**WFSRDOWN-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A
92271226002	**WFSREFF-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A
92271226003	**WFSRUP-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A
92271226004	**WFSRUP-09-DUP**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 10/8
Pace Project No.: 92271226

Sample: WFSRDOWN-09 **Lab ID: 92271226001** Collected: 10/08/15 14:08 Received: 10/09/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.10**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	M1
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/22/15 06:00	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.41**	mg/L	0.020	1		10/15/15 08:23		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**1.4**	mg/L	0.050	1		10/21/15 04:41	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.15**	mg/L	0.050	1		10/09/15 20:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/8
Pace Project No.: 92271226

Sample: WFSREFF-09 **Lab ID: 92271226002** Collected: 10/08/15 14:14 Received: 10/09/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.18**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.88**	mg/L	0.50	1		10/22/15 06:01	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.020	1		10/15/15 08:24		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**4.3**	mg/L	0.050	1		10/21/15 04:42	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.44**	mg/L	0.050	1		10/09/15 20:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/8
Pace Project No.: 92271226

Sample: WFSRUP-09 **Lab ID: 92271226003** Collected: 10/08/15 14:22 Received: 10/09/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.18**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/22/15 06:02	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.13**	mg/L	0.020	1		10/15/15 08:25		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.079**	mg/L	0.050	1		10/21/15 04:42	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.081**	mg/L	0.050	1		10/09/15 20:00		

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ANALYTICAL RESULTS

Project: Stones BOD 10/8
Pace Project No.: 92271226

Sample: WFSRUP-09-DUP **Lab ID: 92271226004** Collected: 10/08/15 14:28 Received: 10/09/15 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.15**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/22/15 06:05	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.13**	mg/L	0.020	1		10/15/15 08:26		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.068**	mg/L	0.050	1		10/21/15 04:43	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.085**	mg/L	0.050	1		10/09/15 20:00		

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QUALITY CONTROL DATA

Project: Stones BOD 10/8
Pace Project No.: 92271226

QC Batch: WETA/24985 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

METHOD BLANK: 1583714 Matrix: Water
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	10/15/15 14:30	

LABORATORY CONTROL SAMPLE: 1583715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1583716 1583717

Parameter	Units	92271226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.10	1	1	0.42	0.43	31	32	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1583718 1583719

Parameter	Units	92271952013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.28	1	1	0.37	0.38	10	10	90-110	2	10	M1

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(704)875-9092

QUALITY CONTROL DATA

Project: Stones BOD 10/8
Pace Project No.: 92271226

QC Batch: WETA/25050 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

METHOD BLANK: 1587311 Matrix: Water
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	10/22/15 05:46	

LABORATORY CONTROL SAMPLE: 1587312

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587313 1587314

Parameter	Units	92272205001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	4.3	10	10	13.0	14.7	86	104	90-110	12	10	M1,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1587315 1587316

Parameter	Units	92271226003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	9.9	9.5	99	95	90-110	4	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/8
Pace Project No.: 92271226

QC Batch: WETA/24971 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

METHOD BLANK: 1582342 — Matrix: Water
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	10/15/15 08:07	

LABORATORY CONTROL SAMPLE: 1582343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.3	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582344 1582345

Parameter	Units	92271154002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	<0.020	2.5	2.5	2.2	2.2	90	89	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582346 1582347

Parameter	Units	92271319010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.2	2.2	87	87	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/8
Pace Project No.: 92271226

QC Batch: WETA/25022 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

METHOD BLANK: 1586193 | Matrix: Water
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	10/21/15 04:23	

LABORATORY CONTROL SAMPLE: 1586194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586195 1586196

Parameter	Units	92271804005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	3.4	2.5	2.5	5.8	5.8	98	97	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1586197 1586198

Parameter	Units	92272013004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.070	2.5	2.5	2.4	2.5	95	96	90-110	2	10	

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QUALITY CONTROL DATA

Project: Stones BOD 10/8
Pace Project No.: 92271226

QC Batch: WETA/24906 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

METHOD BLANK: 1579940 | Matrix: Water
Associated Lab Samples: 92271226001, 92271226002, 92271226003, 92271226004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	10/09/15 20:00	

LABORATORY CONTROL SAMPLE: 1579941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.25	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1579942 1579943

Parameter	Units	92271026001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	0.030J	.25	.25	0.27	0.27	96	95	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 10/8
Pace Project No.: 92271226

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 10/8
Pace Project No.: 92271226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92271226001	**WFSRDOWN-09**	EPA 350.1	WETA/24985		
92271226002	**WFSREFF-09**	EPA 350.1	WETA/24985		
92271226003	**WFSRUP-09**	EPA 350.1	WETA/24985		
92271226004	**WFSRUP-09-DUP**	EPA 350.1	WETA/24985		
92271226001	**WFSRDOWN-09**	EPA 351.2	WETA/25050		
92271226002	**WFSREFF-09**	EPA 351.2	WETA/25050		
92271226003	**WFSRUP-09**	EPA 351.2	WETA/25050		
92271226004	**WFSRUP-09-DUP**	EPA 351.2	WETA/25050		
92271226001	**WFSRDOWN-09**	EPA 353.2	WETA/24971		
92271226002	**WFSREFF-09**	EPA 353.2	WETA/24971		
92271226003	**WFSRUP-09**	EPA 353.2	WETA/24971		
92271226004	**WFSRUP-09-DUP**	EPA 353.2	WETA/24971		
92271226001	**WFSRDOWN-09**	EPA 365.1	WETA/25022		
92271226002	**WFSREFF-09**	EPA 365.1	WETA/25022		
92271226003	**WFSRUP-09**	EPA 365.1	WETA/25022		
92271226004	**WFSRUP-09-DUP**	EPA 365.1	WETA/25022		
92271226001	**WFSRDOWN-09**	SM 4500-P E	WETA/24906		
92271226002	**WFSREFF-09**	SM 4500-P E	WETA/24906		
92271226003	**WFSRUP-09**	SM 4500-P E	WETA/24906		
92271226004	**WFSRUP-09-DUP**	SM 4500-P E	WETA/24906		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: TN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRDOWN-09	WT	G	10/8/15	1408				2	1	1							1	1	1		92271226-001
2	WFSREFF-09	WT	G	10/8/15	1414				2	1	1							1	1	1		002
3	WFSRUP-09	WT	G	10/8/15	1422				2	1	1							1	1	1		003
4	WFSRUP-09-DUP	WT	G	10/8/15	1428																	
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* Use lowest detection limits possible				Mark Stevens AVL	10/9/15	1015	2.8	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rachel A. Stribling

SIGNATURE of SAMPLER: Rachel A. Stribling

DATE Signed (MM/DD/YY): 10/08/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeter

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 2.8 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/4 MX

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Orthophosate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] **Date:** 10/9/15

SRF Review: [signature] **Date:** 10/9/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92271226

92271226

Pace Analytical Services, Inc.
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(704)875-9092

October 20, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384
Pace Project No.: 92270233

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on October 02, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project:	Stones BOD 152384
Pace Project No.:	92270233

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384
Pace Project No.: 92270233

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92270233001	**WFSRDOWN-09**	Water	10/01/15 11:00	10/02/15 10:50
92270233002	**WFSREff-09**	Water	10/01/15 11:15	10/02/15 10:50
92270233003	**WFSRUP-09**	Water	10/01/15 11:25	10/02/15 10:50
92270233004	**WFSRUP-09-DUP**	Water	10/01/15 11:30	10/02/15 10:50

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384
Pace Project No.: 92270233

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92270233001	**WFSRDOWN-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A
92270233002	**WFSREff-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A
92270233003	**WFSRUP-09**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A
92270233004	**WFSRUP-09-DUP**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92270233

Sample: WFSRDOWN-09 **Lab ID: 92270233001** Collected: 10/01/15 11:00 Received: 10/02/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.16**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	M1
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/10/15 14:46	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.39**	mg/L	0.020	1		10/08/15 15:10		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**1.5**	mg/L	0.050	1		10/09/15 10:28	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**1.6**	mg/L	0.50	10		10/02/15 21:45		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92270233

Sample: WFSREff-09 **Lab ID: 92270233002** Collected: 10/01/15 11:15 Received: 10/02/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.19**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.94**	mg/L	0.50	1		10/10/15 14:47	7727-37-9	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.020	1		10/08/15 15:11		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**4.5**	mg/L	0.050	1		10/09/15 10:29	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**4.4**	mg/L	0.50	10		10/02/15 21:45		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92270233

Sample: WFSRUP-09 **Lab ID: 92270233003** Collected: 10/01/15 11:25 Received: 10/02/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.15**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/10/15 14:50	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.12**	mg/L	0.020	1		10/14/15 04:49		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.066**	mg/L	0.050	1		10/09/15 10:29	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.077**	mg/L	0.050	1		10/02/15 21:45		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92270233

Sample: WFSRUP-09-DUP **Lab ID: 92270233004** Collected: 10/01/15 11:30 Received: 10/02/15 10:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.13**	mg/L	0.010	1		10/15/15 14:30	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		10/10/15 14:51	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.11**	mg/L	0.020	1		10/14/15 04:50		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.064**	mg/L	0.050	1		10/09/15 10:30	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.067**	mg/L	0.050	1		10/02/15 21:45		

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92270233

QC Batch: WETA/24984 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92270233001, 92270233002, 92270233003, 92270233004

METHOD BLANK: 1583708 | Matrix: Water
Associated Lab Samples: 92270233001, 92270233002, 92270233003, 92270233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	10/15/15 14:30	

LABORATORY CONTROL SAMPLE: 1583709

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.95	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1583710 1583711

Parameter	Units	92270233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.16	1	1	0.40	0.39	24	23	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1583712 1583713

Parameter	Units	92271180001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.17	1	1	0.39	0.39	22	22	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92270233

QC Batch: WETA/24885 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92270233001, 92270233002, 92270233003, 92270233004

METHOD BLANK: 1577359 Matrix: Water
Associated Lab Samples: 92270233001, 92270233002, 92270233003, 92270233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	10/10/15 13:57	

LABORATORY CONTROL SAMPLE: 1577360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1577361 1577362

Parameter	Units	92270162001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	10	10.3	97	101	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1577363 1577364

Parameter	Units	92270233002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.94	10	10	13.0	13.9	120	130	90-110	7	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92270233

QC Batch: WETA/24863 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92270233001, 92270233002

METHOD BLANK: 1576477 | Matrix: Water
Associated Lab Samples: 92270233001, 92270233002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	10/08/15 14:37	

LABORATORY CONTROL SAMPLE: 1576478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1576479 1576480

Parameter	Units	92269873001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.035	2.5	2.5	2.4	2.4	93	93	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1576481 1576482

Parameter	Units	92270458001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.022	2.5	2.5	2.2	2.2	88	88	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92270233

QC Batch: WETA/24958 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92270233003, 92270233004

METHOD BLANK: 1582005 | Matrix: Water
Associated Lab Samples: 92270233003, 92270233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	10/14/15 04:38	

LABORATORY CONTROL SAMPLE: 1582006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582007 1582008

Parameter	Units	92271002001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	10.7	2.5	2.5	13.5	13.4	115	111	75-125	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1582009 1582010

Parameter	Units	92270324002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.030	2.5	2.5	2.4	2.4	96	95	75-125	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92270233

QC Batch: WETA/24839 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92270233001, 92270233002, 92270233003, 92270233004

METHOD BLANK: 1575794 Matrix: Water
Associated Lab Samples: 92270233001, 92270233002, 92270233003, 92270233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	10/09/15 10:19	

LABORATORY CONTROL SAMPLE: 1575795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1575796 1575797

Parameter	Units	92269885001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	246 ug/L	2.5	2.5	2.9	2.9	107	107	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1575798 1575799

Parameter	Units	92270233004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.064	2.5	2.5	2.8	2.8	108	109	90-110	2	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92270233

QC Batch: WETA/24801 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92270233001, 92270233002, 92270233003, 92270233004

METHOD BLANK: 1574075 | Matrix: Water
Associated Lab Samples: 92270233001, 92270233002, 92270233003, 92270233004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	10/02/15 21:45	

LABORATORY CONTROL SAMPLE: 1574076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.25	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1574077 1574078

Parameter	Units	92270233001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	1.6	2.5	2.5	4.0	4.0	95	95	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 152384
Pace Project No.: 92270233

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384
Pace Project No.: 92270233

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92270233001	**WFSRDOWN-09**	EPA 350.1	WETA/24984		
92270233002	**WFSREff-09**	EPA 350.1	WETA/24984		
92270233003	**WFSRUP-09**	EPA 350.1	WETA/24984		
92270233004	**WFSRUP-09-DUP**	EPA 350.1	WETA/24984		
92270233001	**WFSRDOWN-09**	EPA 351.2	WETA/24885		
92270233002	**WFSREff-09**	EPA 351.2	WETA/24885		
92270233003	**WFSRUP-09**	EPA 351.2	WETA/24885		
92270233004	**WFSRUP-09-DUP**	EPA 351.2	WETA/24885		
92270233001	**WFSRDOWN-09**	EPA 353.2	WETA/24863		
92270233002	**WFSREff-09**	EPA 353.2	WETA/24863		
92270233003	**WFSRUP-09**	EPA 353.2	WETA/24958		
92270233004	**WFSRUP-09-DUP**	EPA 353.2	WETA/24958		
92270233001	**WFSRDOWN-09**	EPA 365.1	WETA/24839		
92270233002	**WFSREff-09**	EPA 365.1	WETA/24839		
92270233003	**WFSRUP-09**	EPA 365.1	WETA/24839		
92270233004	**WFSRUP-09-DUP**	EPA 365.1	WETA/24839		
92270233001	**WFSRDOWN-09**	SM 4500-P E	WETA/24801		
92270233002	**WFSREff-09**	SM 4500-P E	WETA/24801		
92270233003	**WFSRUP-09**	SM 4500-P E	WETA/24801		
92270233004	**WFSRUP-09-DUP**	SM 4500-P E	WETA/24801		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N	N	N		92270233-
1	WFSRDOWN-09	WT	G			10/1/15	1100		2	1	1								1	1	1		922702330002
2	WFSREFF-09	WT	G			10/1/15	1115		2	1	1								1	1	1		003
3	WFSRUP-09	WT	G			10/1/15	1125		2	1	1								1	1	1		004
4	WFSRUP-09-DUP	WT	G			10/1/15	1130		2	1	1								1	1	1		
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
☆Use lowest detection limits possible☆	Katie Lopez/AAT	10/1/15	1135	Ruth Dave Tank	10/2/15	~~11:32~~ 10:50	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Lopez

SIGNATURE of SAMPLER: Katie Lopez — DATE Signed (MM/DD/YY): 10/01/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Aquaeter

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 4.3 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: KDB 10/2/15

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. orthophos
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WW		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review:	[signature]	Date:	10/2/15
SRF Review:	[signature]	Date:	10/2/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92270233

92270233

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 29, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project:	Stones BOD 152384 9/16
Pace Project No.:	92268033

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92268033001	**WFSRDOWN-08**	Water	09/16/15 12:47	09/17/15 10:20
92268033002	**WFSREFF-08**	Water	09/16/15 12:55	09/17/15 10:20
92268033003	**WFSRUp-08**	Water	09/16/15 13:01	09/17/15 10:20

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92268033001	**WFSRDOWN-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A
92268033002	**WFSREFF-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A
92268033003	**WFSRUp-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	DMN	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

Sample: WFSRDOWN-08 **Lab ID: 92268033001** Collected: 09/16/15 12:47 Received: 09/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.013**	mg/L	0.010	1		09/23/15 14:15	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	2.5	5		09/29/15 03:20	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.020	1		09/24/15 15:56		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.51**	mg/L	0.050	1		09/23/15 12:45	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.58**	mg/L	0.10	2		09/18/15 11:00		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

Sample: WFSREFF-08 **Lab ID: 92268033002** Collected: 09/16/15 12:55 Received: 09/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.068**	mg/L	0.010	1		09/23/15 14:15	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.0**	mg/L	0.50	1		09/29/15 03:21	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**3.6**	mg/L	0.020	1		09/24/15 15:58		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**5.2**	mg/L	0.10	2		09/23/15 14:48	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**5.5**	mg/L	1.2	25		09/18/15 11:00		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

Sample: WFSRUp-08 **Lab ID: 92268033003** Collected: 09/16/15 13:01 Received: 09/17/15 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.020**	mg/L	0.010	1		09/23/15 14:15	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		09/29/15 03:23	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.78**	mg/L	0.020	1		09/24/15 15:59		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		09/23/15 12:47	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.11**	mg/L	0.050	1		09/18/15 11:00		

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QUALITY CONTROL DATA

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

QC Batch: WETA/24639 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92268033001, 92268033002, 92268033003

METHOD BLANK: 1564539 | Matrix: Water
Associated Lab Samples: 92268033001, 92268033002, 92268033003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	09/23/15 14:15	

LABORATORY CONTROL SAMPLE: 1564540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.97	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1564541 1564542

Parameter	Units	92267512003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.011	1	1	0.69	0.68	68	67	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1564543 1564544

Parameter	Units	92267589001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.040	1	1	0.70	0.70	66	66	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

QC Batch: WETA/24703 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92268033001, 92268033002, 92268033003

METHOD BLANK: 1568231 Matrix: Water
Associated Lab Samples: 92268033001, 92268033002, 92268033003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	09/29/15 03:03	

LABORATORY CONTROL SAMPLE: 1568232

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.4	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1568233 1568234

Parameter	Units	92268806002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	11.8	11.2	118	112	90-110	5	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1568235 1568236

Parameter	Units	92268807001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	11.6	11.6	111	111	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

QC Batch: WETA/24651 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92268033001, 92268033002, 92268033003

METHOD BLANK: 1565126 — Matrix: Water
Associated Lab Samples: 92268033001, 92268033002, 92268033003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	09/24/15 15:43	

LABORATORY CONTROL SAMPLE: 1565127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1565128 — 1565129

Parameter	Units	92268806002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.33	2.5	2.5	2.8	2.8	98	98	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1565130 — 1565131

Parameter	Units	92268103006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	2.0	2.5	2.5	4.2	4.2	89	89	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

QC Batch: WETA/24609 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92268033001, 92268033002, 92268033003

METHOD BLANK: 1563142 | Matrix: Water
Associated Lab Samples: 92268033001, 92268033002, 92268033003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	09/23/15 12:38	

LABORATORY CONTROL SAMPLE: 1563143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563144 1563145

Parameter	Units	92267877001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	4.7	2.5	2.5	6.9	7.2	88	104	90-110	5	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563146 1563147

Parameter	Units	92268103008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	7.6	2.5	2.5	9.7	9.8	85	89	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

QC Batch: WETA/24542 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92268033001, 92268033002, 92268033003

METHOD BLANK: 1559917 | Matrix: Water
Associated Lab Samples: 92268033001, 92268033002, 92268033003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	09/18/15 11:00	

LABORATORY CONTROL SAMPLE: 1559918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.26	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1559919 1559920

Parameter	Units	92268033001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	0.58	1.2	1.2	1.9	1.9	103	102	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384 9/16
Pace Project No.: 92268033

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92268033001	**WFSRDOWN-08**	EPA 350.1	WETA/24639		
92268033002	**WFSREFF-08**	EPA 350.1	WETA/24639		
92268033003	**WFSRUp-08**	EPA 350.1	WETA/24639		
92268033001	**WFSRDOWN-08**	EPA 351.2	WETA/24703		
92268033002	**WFSREFF-08**	EPA 351.2	WETA/24703		
92268033003	**WFSRUp-08**	EPA 351.2	WETA/24703		
92268033001	**WFSRDOWN-08**	EPA 353.2	WETA/24651		
92268033002	**WFSREFF-08**	EPA 353.2	WETA/24651		
92268033003	**WFSRUp-08**	EPA 353.2	WETA/24651		
92268033001	**WFSRDOWN-08**	EPA 365.1	WETA/24609		
92268033002	**WFSREFF-08**	EPA 365.1	WETA/24609		
92268033003	**WFSRUp-08**	EPA 365.1	WETA/24609		
92268033001	**WFSRDOWN-08**	SM 4500-P E	WETA/24542		
92268033002	**WFSREFF-08**	SM 4500-P E	WETA/24542		
92268033003	**WFSRUp-08**	SM 4500-P E	WETA/24542		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: TN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRDOWN-08	WT	G	9/16	1247	9/16/15			2	1	1							1	1	1		92248033-001
2	WFSREFF-08	WT	G	9/16	1255	9/16/15			2	1	1							1	1	1		002
3	WFSR Up-08	WT	G	9/16	1301	9/16/15			2	1	1							1	1	1		003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Use lowest detection limits possible				Mitch Stewart AVL	9/17/15	1020	3.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rachel Stribling

SIGNATURE of SAMPLER: Rachel Stribling

DATE Signed (MM/DD/YY): 9/16/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeter

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 3.6 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/17 MS

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes	☐No	☐N/A	6. Orthophosphate
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT				
PH containers needing preservation have been checked.	☑Yes	☐No	☐N/A	13.
pH containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes	☐No	☐N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☑No		
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	15.
Trip Blank Present:	☐Yes	☐No	☑N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Trace Trip Blank Lot # (if purchased):_____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: [illegible] **Date:** 9/17/15

SRF Review: [illegible] **Date:** 9/17/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO# : 92268033

92268033

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 25, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384
Pace Project No.: 92267512

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on September 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

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CERTIFICATIONS

Project:	Stones BOD 152384
Pace Project No.:	92267512

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384
Pace Project No.: 92267512

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92267512001	**WESRUP-07**	Water	09/14/15 12:45	09/15/15 10:30
92267512002	**WESREFF-07**	Water	09/14/15 12:36	09/15/15 10:30
92267512003	**WFSDOWN-07**	Water	09/14/15 12:26	09/15/15 10:30

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384
Pace Project No.: 92267512

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92267512001	**WESRUP-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92267512002	**WESREFF-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92267512003	**WFSDOWN-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92267512

Sample: WESRUP-07 **Lab ID: 92267512001** Collected: 09/14/15 12:45 Received: 09/15/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.010	1		09/21/15 18:50	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		09/24/15 18:57	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.22**	mg/L	0.020	1		09/23/15 14:30		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		09/23/15 12:02	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.098**	mg/L	0.050	1		09/15/15 16:25		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92267512

Sample: WESREFF-07 **Lab ID: 92267512002** Collected: 09/14/15 12:36 Received: 09/15/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.013**	mg/L	0.010	1		09/21/15 18:50	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.66**	mg/L	0.50	1		09/24/15 18:58	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.91**	mg/L	0.020	1		09/23/15 14:31		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**3.3**	mg/L	0.050	1		09/23/15 12:03	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**3.3**	mg/L	0.50	10		09/15/15 16:25		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92267512

Sample: WFSDOWN-07 **Lab ID: 92267512003** Collected: 09/14/15 12:26 Received: 09/15/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.011**	mg/L	0.010	1		09/23/15 14:15	7664-41-7	M1
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		09/24/15 18:59	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.45**	mg/L	0.020	1		09/23/15 14:32		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.49**	mg/L	0.050	1		09/23/15 12:04	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.47**	mg/L	0.050	1		09/15/15 16:25		

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92267512

QC Batch: WETA/24579
Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92267512001, 92267512002

METHOD BLANK: 1562419
Matrix: Water
Associated Lab Samples: 92267512001, 92267512002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	09/21/15 18:50	

LABORATORY CONTROL SAMPLE: 1562420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.96	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1562421 1562422

Parameter	Units	92266694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.011	1	1	0.75	0.74	74	73	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1562423 1562424

Parameter	Units	92266694002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.071	1	1	0.75	0.75	68	68	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92267512

QC Batch: WETA/24639
QC Batch Method: EPA 350.1
Analysis Method: EPA 350.1
Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92267512003

METHOD BLANK: 1564539
Matrix: Water
Associated Lab Samples: 92267512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	09/23/15 14:15	

LABORATORY CONTROL SAMPLE: 1564540

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.97	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1564541 1564542

Parameter	Units	92267512003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.011	1	1	0.69	0.68	68	67	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1564543 1564544

Parameter	Units	92267589001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.040	1	1	0.70	0.70	66	66	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92267512

QC Batch: WETA/24640 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92267512001, 92267512002, 92267512003

METHOD BLANK: 1564604 Matrix: Water
Associated Lab Samples: 92267512001, 92267512002, 92267512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	09/24/15 18:36	

LABORATORY CONTROL SAMPLE: 1564605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1564606 1564607

Parameter	Units	92268343005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	10.9	10.8	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1564608 1564609

Parameter	Units	92268167001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	8.2	10	10	17.4	17.1	92	89	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92267512

QC Batch: WETA/24627 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92267512001, 92267512002, 92267512003

METHOD BLANK: 1563655 | Matrix: Water
Associated Lab Samples: 92267512001, 92267512002, 92267512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	09/23/15 14:01	

LABORATORY CONTROL SAMPLE: 1563656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.5	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563657 1563658

Parameter	Units	92268446001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.15	2.5	2.5	2.4	2.4	90	90	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563659 1563660

Parameter	Units	92268453005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.3	2.3	92	92	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92267512

QC Batch: WETA/24607 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92267512001, 92267512002, 92267512003

METHOD BLANK: 1563125 | Matrix: Water
Associated Lab Samples: 92267512001, 92267512002, 92267512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	09/23/15 11:52	

LABORATORY CONTROL SAMPLE: 1563126

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.6	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563127 1563128

Parameter	Units	92268239007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.19	2.5	2.5	2.7	2.7	99	102	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563129 1563130

Parameter	Units	92267512003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.49	2.5	2.5	3.0	3.0	102	102	90-110	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92267512

QC Batch: WETA/24494 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92267512001, 92267512002, 92267512003

METHOD BLANK: 1556795 | Matrix: Water
Associated Lab Samples: 92267512001, 92267512002, 92267512003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	09/15/15 16:25	

LABORATORY CONTROL SAMPLE: 1556796

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.24	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1556797 1556798

Parameter	Units	92267418001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	2.1	6.2	6.2	8.6	8.6	103	103	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 152384
Pace Project No.: 92267512

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384
Pace Project No.: 92267512

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92267512001	**WESRUP-07**	EPA 350.1	WETA/24579		
92267512002	**WESREFF-07**	EPA 350.1	WETA/24579		
92267512003	**WFSDOWN-07**	EPA 350.1	WETA/24639		
92267512001	**WESRUP-07**	EPA 351.2	WETA/24640		
92267512002	**WESREFF-07**	EPA 351.2	WETA/24640		
92267512003	**WFSDOWN-07**	EPA 351.2	WETA/24640		
92267512001	**WESRUP-07**	EPA 353.2	WETA/24627		
92267512002	**WESREFF-07**	EPA 353.2	WETA/24627		
92267512003	**WFSDOWN-07**	EPA 353.2	WETA/24627		
92267512001	**WESRUP-07**	EPA 365.1	WETA/24607		
92267512002	**WESREFF-07**	EPA 365.1	WETA/24607		
92267512003	**WFSDOWN-07**	EPA 365.1	WETA/24607		
92267512001	**WESRUP-07**	SM 4500-P E	WETA/24494		
92267512002	**WESREFF-07**	SM 4500-P E	WETA/24494		
92267512003	**WFSDOWN-07**	SM 4500-P E	WETA/24494		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Orthophosphate N; $NO_3 + NO_2$, TP, Ammonia N; TKN N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRUP-07	WT	G			9/14/15	1245		2	1	1							1	1	1		92267512-001
2	WFSREF-07	WT	G			9/14/15	1236		2	1	1							1	1	1		002
3	WFSRDOWN-07	WT	G			9/14/15	1226		2	1	1							1	1	1		003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
☆ Use lowest detection limits possible ☆	Katie Lopez / AAT	9/14/15	1255	[illegible] AVL	9/14/15	1036	4.2	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE: Katie Lopez

PRINT Name of SAMPLER: Katie Lopez

SIGNATURE of SAMPLER: Katie Lopez

DATE Signed (MM/DD/YY): 09/14/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeter

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: (IR Gun#3 -130265963) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 4.2 C **Biological Tissue is Frozen:** Yes No (N/A) **Date and Initials of person examining contents:** 9/15 MS

Temp should be above freezing to 6°C **Comments:**

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.	
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.	
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.	
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.	
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.	
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.	Orthophosate
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7.	ASAP
Sufficient Volume:	☑Yes ☐No ☐N/A	8.	
Correct Containers Used:	☑Yes ☐No ☐N/A	9.	
-Pace Containers Used:	☑Yes ☐No ☐N/A		
Containers Intact:	☑Yes ☐No ☐N/A	10.	
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.	
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.	
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No		
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.	
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.	
Trip Blank Present:	☐Yes ☐No ☑N/A	16.	
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A		
Pace Trip Blank Lot # (if purchased):_____			

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [illegible] Date: 9/12/15

SRF Review: [illegible] Date: 9/12/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Place label here

WO#: 92267512

92267512

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

September 24, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 9/8
Pace Project No.: 92266694

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Katie Lopez, Aquaeter
Kelley Spence, Aquaeter
Rachel Stribling, Aquaeter

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CERTIFICATIONS

Project:	Stones BOD 9/8
Pace Project No.:	92266694

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 9/8
Pace Project No.: 92266694

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92266694001	**WFSRUP-08**	Water	09/08/15 13:08	09/09/15 10:30
92266694002	**WFSREFF-08**	Water	09/08/15 13:04	09/09/15 10:30
92266694003	**WFSRDOWN-08**	Water	09/08/15 12:54	09/09/15 10:30

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SAMPLE ANALYTE COUNT

Project: Stones BOD 9/8
Pace Project No.: 92266694

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92266694001	**WFSRUP-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92266694002	**WFSREFF-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92266694003	**WFSRDOWN-08**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 9/8
Pace Project No.: 92266694

Sample: WFSRUP-08 **Lab ID: 92266694001** Collected: 09/08/15 13:08 Received: 09/09/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.011**	mg/L	0.010	1		09/21/15 18:50	7664-41-7	M1
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		09/22/15 04:59	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.75**	mg/L	0.020	1		09/17/15 18:10		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.050**	mg/L	0.050	1		09/18/15 14:38	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.082**	mg/L	0.050	1		09/09/15 16:15		

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ANALYTICAL RESULTS

Project: Stones BOD 9/8
Pace Project No.: 92266694

Sample: WFSREFF-08 **Lab ID: 92266694002** Collected: 09/08/15 13:04 Received: 09/09/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.071**	mg/L	0.010	1		09/21/15 18:50	7664-41-7	M1
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.93**	mg/L	0.50	1		09/22/15 05:00	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**3.7**	mg/L	0.020	1		09/17/15 18:11		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**5.1**	mg/L	0.10	2		09/18/15 15:43	7723-14-0	M1
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**6.1**	mg/L	1.2	25		09/09/15 16:15		

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ANALYTICAL RESULTS

Project: Stones BOD 9/8
Pace Project No.: 92266694

Sample: WFSRDOWN-08 **Lab ID: 92266694003** Collected: 09/08/15 12:54 Received: 09/09/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.012**	mg/L	0.010	1		09/21/15 18:50	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		09/22/15 05:01	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**1.1**	mg/L	0.020	1		09/17/15 18:12		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.52**	mg/L	0.050	1		09/18/15 14:44	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.61**	mg/L	0.25	5		09/09/15 16:15		M1

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QUALITY CONTROL DATA

Project: Stones BOD 9/8
Pace Project No.: 92266694

QC Batch: WETA/24579 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92266694001, 92266694002, 92266694003

METHOD BLANK: 1562419 | Matrix: Water
Associated Lab Samples: 92266694001, 92266694002, 92266694003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	09/21/15 18:50	

LABORATORY CONTROL SAMPLE: 1562420

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.96	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1562421 1562422

Parameter	Units	92266694001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.011	1	1	0.75	0.74	74	73	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1562423 1562424

Parameter	Units	92266694002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.071	1	1	0.75	0.75	68	68	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 9/8
Pace Project No.: 92266694

QC Batch: WETA/24546 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92266694001, 92266694002, 92266694003

METHOD BLANK: 1560801 Matrix: Water
Associated Lab Samples: 92266694001, 92266694002, 92266694003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	09/22/15 04:37	

LABORATORY CONTROL SAMPLE: 1560802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1560803 1560804

Parameter	Units	92267434001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	22.6	10	10	31.6	34.8	90	122	90-110	10	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1560805 1560806

Parameter	Units	92267453001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	590	1000	1000	829	809	24	22	90-110	3	10	M6

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QUALITY CONTROL DATA

Project: Stones BOD 9/8
Pace Project No.: 92266694

QC Batch: WETA/24511 — Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 — Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92266694001, 92266694002, 92266694003

METHOD BLANK: 1558388 — Matrix: Water
Associated Lab Samples: 92266694001, 92266694002, 92266694003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	09/17/15 17:46	

LABORATORY CONTROL SAMPLE: 1558389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558390 — 1558391

Parameter	Units	92267767007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.4	2.3	94	94	75-125	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558392 — 1558393

Parameter	Units	92267774001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.25	2.5	2.5	2.6	2.6	93	93	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 9/8
Pace Project No.: 92266694

QC Batch: WETA/24531
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92266694001

METHOD BLANK: 1559681
Matrix: Water
Associated Lab Samples: 92266694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	09/18/15 14:17	

LABORATORY CONTROL SAMPLE: 1559682

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1559683 1559684

Parameter	Units	92267308012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.45	5	5	6.8	7.0	127	131	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1559685 1559686

Parameter	Units	92266642001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	1.5	5	5	7.9	7.7	127	124	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 9/8
Pace Project No.: 92266694

QC Batch: WETA/24532 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92266694002, 92266694003

METHOD BLANK: 1559687 | Matrix: Water
Associated Lab Samples: 92266694002, 92266694003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	09/18/15 14:39	

LABORATORY CONTROL SAMPLE: 1559688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1559689 1559690

Parameter	Units	92266694002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	5.1	5	5	11.5	11.5	127	128	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1559691 1559692

Parameter	Units	92266826005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.24	5	5	6.6	6.5	127	125	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 9/8
Pace Project No.: 92266694

QC Batch: WETA/24420 Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92266694001, 92266694002, 92266694003

METHOD BLANK: 1551951 Matrix: Water
Associated Lab Samples: 92266694001, 92266694002, 92266694003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	09/09/15 16:15	

LABORATORY CONTROL SAMPLE: 1551952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.26	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1551953 1551954

Parameter	Units	92266694003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	0.61	1.2	1.2	1.7	1.7	88	88	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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QUALIFIERS

Project: Stones BOD 9/8
Pace Project No.: 92266694

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 9/8
Pace Project No.: 92266694

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92266694001	**WFSRUP-08**	EPA 350.1	WETA/24579		
92266694002	**WFSREFF-08**	EPA 350.1	WETA/24579		
92266694003	**WFSRDOWN-08**	EPA 350.1	WETA/24579		
92266694001	**WFSRUP-08**	EPA 351.2	WETA/24546		
92266694002	**WFSREFF-08**	EPA 351.2	WETA/24546		
92266694003	**WFSRDOWN-08**	EPA 351.2	WETA/24546		
92266694001	**WFSRUP-08**	EPA 353.2	WETA/24511		
92266694002	**WFSREFF-08**	EPA 353.2	WETA/24511		
92266694003	**WFSRDOWN-08**	EPA 353.2	WETA/24511		
92266694001	**WFSRUP-08**	EPA 365.1	WETA/24531		
92266694002	**WFSREFF-08**	EPA 365.1	WETA/24532		
92266694003	**WFSRDOWN-08**	EPA 365.1	WETA/24532		
92266694001	**WFSRUP-08**	SM 4500-P E	WETA/24420		
92266694002	**WFSREFF-08**	SM 4500-P E	WETA/24420		
92266694003	**WFSRDOWN-08**	SM 4500-P E	WETA/24420		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRup-08	WT	G			9/8/15	1308		2	1	1								1	1	1		92266694-001
2	WFSR Eff-08	WT	G			9/8/15	1304		2	1	1								1	1	1		002
3	WFSR Down-08	WT	G			9/8/15	1254		2	1	1								1	1	1		003
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
☆ Use lowest detection limits possible ☆	Katie Lopez / AAT	9/8/15	1315	Matt Kincaid AVL	9/9/15	1030	3.5	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Lopez

SIGNATURE of SAMPLER: Katie Lopez DATE Signed (MM/DD/YY): 09/08/15

Temp In °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquaTer

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 3.5 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/4 MS

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Orthophosphate
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. ASAP
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: Date: 9/9/15

SRF Review: Date: 9/9/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92266694

92266694

Pace Analytical Services, Inc.
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(704)875-9092

September 17, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 9/1
Pace Project No.: 92265955

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on September 02, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Kelley Spence, Aquaeter

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CERTIFICATIONS

Project:	Stones BOD 9/1
Pace Project No.:	92265955

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 9/1
Pace Project No.: 92265955

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92265955001	**WFSRDOWN-08**	Water	09/01/15 12:36	09/02/15 10:45
92265955002	**WFSREff-08**	Water	09/01/15 12:43	09/02/15 10:45
92265955003	**WFSRUP-08**	Water	09/01/15 12:47	09/02/15 10:45

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SAMPLE ANALYTE COUNT

Project: Stones BOD 9/1
Pace Project No.: 92265955

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92265955001	**WFSRDOWN-08**	EPA 350.1	SER	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92265955002	**WFSREff-08**	EPA 350.1	SER	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A
92265955003	**WFSRUP-08**	EPA 350.1	SER	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	WRC	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 9/1
Pace Project No.: 92265955

Sample: WFSRDOWN-08 **Lab ID: 92265955001** Collected: 09/01/15 12:36 Received: 09/02/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.092**	mg/L	0.010	1		09/17/15 08:17	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		09/04/15 04:22	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.96**	mg/L	0.020	1		09/11/15 17:46		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.52**	mg/L	0.050	1		09/04/15 12:06	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.71**	mg/L	0.25	5		09/02/15 21:25		M1

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ANALYTICAL RESULTS

Project: Stones BOD 9/1
Pace Project No.: 92265955

Sample: WFSREff-08 **Lab ID: 92265955002** Collected: 09/01/15 12:43 Received: 09/02/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.12**	mg/L	0.010	1		09/17/15 08:17	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.69**	mg/L	0.50	1		09/04/15 04:22	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**3.3**	mg/L	0.020	1		09/11/15 17:47		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**4.9**	mg/L	0.050	1		09/09/15 14:33	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**5.2**	mg/L	1.2	25		09/02/15 21:25		

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ANALYTICAL RESULTS

Project: Stones BOD 9/1
Pace Project No.: 92265955

Sample: WFSRUP-08 **Lab ID: 92265955003** Collected: 09/01/15 12:47 Received: 09/02/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.054**	mg/L	0.010	1		09/17/15 08:17	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		09/04/15 04:23	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.65**	mg/L	0.020	1		09/11/15 17:48		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		09/09/15 14:34	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.21**	mg/L	0.050	1		09/02/15 21:25		

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QUALITY CONTROL DATA

Project: Stones BOD 9/1
Pace Project No.: 92265955

QC Batch: WETA/24501 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92265955001, 92265955002, 92265955003

METHOD BLANK: 1557744 | Matrix: Water
Associated Lab Samples: 92265955001, 92265955002, 92265955003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	09/17/15 08:17	

LABORATORY CONTROL SAMPLE: 1557745

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1557746 1557747

Parameter	Units	92265600005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.074	1	1	0.99	0.98	92	90	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 9/1
Pace Project No.: 92265955

QC Batch: WETA/24361 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92265955001, 92265955002, 92265955003

METHOD BLANK: 1548147 Matrix: Water
Associated Lab Samples: 92265955001, 92265955002, 92265955003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	09/04/15 03:16	

LABORATORY CONTROL SAMPLE: 1548148

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1548149 1548150

Parameter	Units	92265826001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	251	10	10	261	258	100	68	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1548151 1548152

Parameter	Units	92265946001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	56.6	10	10	65.7	67.1	91	104	90-110	2	10	

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QUALITY CONTROL DATA

Project: Stones BOD 9/1
Pace Project No.: 92265955

QC Batch: WETA/24442 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92265955001, 92265955002, 92265955003

METHOD BLANK: 1553310 | Matrix: Water
Associated Lab Samples: 92265955001, 92265955002, 92265955003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	09/11/15 17:31	

LABORATORY CONTROL SAMPLE: 1553311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1553312 | 1553313

Parameter	Units	92266918004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	ND	2.5	2.5	2.2	2.3	89	90	75-125	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1553314 | 1553315

Parameter	Units	92265982001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.042	2.5	2.5	2.3	2.2	90	88	75-125	2	10	

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QUALITY CONTROL DATA

Project: Stones BOD 9/1
Pace Project No.: 92265955

QC Batch: WETA/24363
QC Batch Method: EPA 365.1
Analysis Method: EPA 365.1
Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92265955001

METHOD BLANK: 1548162
Matrix: Water
Associated Lab Samples: 92265955001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	09/04/15 11:43	

LABORATORY CONTROL SAMPLE: 1548163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.7	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1548164 1548165

Parameter	Units	92265949007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	2.5	2.5	2.9	2.7	113	109	90-110	4	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1548166 1548167

Parameter	Units	92266099001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	2.5	2.5	1.9	1.9	78	75	90-110	4	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 9/1
Pace Project No.: 92265955

QC Batch: WETA/24407 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92265955002, 92265955003

METHOD BLANK: 1550467 | Matrix: Water
Associated Lab Samples: 92265955002, 92265955003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	09/09/15 14:16	

LABORATORY CONTROL SAMPLE: 1550468

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.7	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1550469 1550470

Parameter	Units	92266352010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	8.9	2.5	2.5	11.6	11.7	108	112	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1550534 1550535

Parameter	Units	92266355005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	109	2.5	2.5	111	114	81	202	90-110	3	10	M6

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QUALITY CONTROL DATA

Project: Stones BOD 9/1
Pace Project No.: 92265955

QC Batch: WETA/24349 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92265955001, 92265955002, 92265955003

METHOD BLANK: 1547651 | Matrix: Water
Associated Lab Samples: 92265955001, 92265955002, 92265955003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	09/02/15 21:25	

LABORATORY CONTROL SAMPLE: 1547652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.25	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1547653 1547654

Parameter	Units	92265955001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	0.71	1.2	1.2	1.8	1.8	84	84	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 9/1
Pace Project No.: 92265955

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 9/1
Pace Project No.: 92265955

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92265955001	**WFSRDOWN-08**	EPA 350.1	WETA/24501		
92265955002	**WFSREff-08**	EPA 350.1	WETA/24501		
92265955003	**WFSRUP-08**	EPA 350.1	WETA/24501		
92265955001	**WFSRDOWN-08**	EPA 351.2	WETA/24361		
92265955002	**WFSREff-08**	EPA 351.2	WETA/24361		
92265955003	**WFSRUP-08**	EPA 351.2	WETA/24361		
92265955001	**WFSRDOWN-08**	EPA 353.2	WETA/24442		
92265955002	**WFSREff-08**	EPA 353.2	WETA/24442		
92265955003	**WFSRUP-08**	EPA 353.2	WETA/24442		
92265955001	**WFSRDOWN-08**	EPA 365.1	WETA/24363		
92265955002	**WFSREff-08**	EPA 365.1	WETA/24407		
92265955003	**WFSRUP-08**	EPA 365.1	WETA/24407		
92265955001	**WFSRDOWN-08**	SM 4500-P E	WETA/24349		
92265955002	**WFSREff-08**	SM 4500-P E	WETA/24349		
92265955003	**WFSRUP-08**	SM 4500-P E	WETA/24349		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		N	N	N		
1	WFSRDOWN-08	WT	G			9/1/15	1236		2	1	1							1	1	1		0226595-001
2	WFSREFF-08	WT	G			9/1/15	1243		2	1	1							1	1	1		002
3	WFSRUP-08	WT	G			9/1/15	1247		2	1	1							1	1	1		003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
☆ Use lowest detection limits possible ☆	Rachel O. Steibling AET	9/1/15	1300	Matt Steiner AVL	9/2/15	1045	2.1	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rachel O. Steibling

SIGNATURE of SAMPLER: Rachel O. Steibling — DATE Signed (MM/DD/YY): 9/1/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeter

* Page 2 of 2 is for Internal Use Only

Courier (Circle): (Fed Ex) UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: (IR Gun#3 -130265963) **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 2.1 C **Biological Tissue is Frozen:** Yes No (N/A)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/2 MS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Orthophosate
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. ASAP
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 9/2/15

SRF Review: [signature] Date: 9/2/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92265955

92265955

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

August 28, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on August 19, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Kelley Spence, Aquaeter

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CERTIFICATIONS

Project:	Stones BOD 152384 8/18
Pace Project No.:	92263972

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92263972001	**WFSRDDWN-07**	Water	08/18/15 12:19	08/19/15 10:40
92263972002	**WFSREFF-07**	Water	08/18/15 12:29	08/19/15 10:40
92263972003	**WFSRUP-07**	Water	08/18/15 12:38	08/19/15 10:40

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92263972001	**WFSRDDWN-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	TEP	1	PASI-A
92263972002	**WFSREFF-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	TEP	1	PASI-A
92263972003	**WFSRUP-07**	EPA 350.1	WRC	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	AES2	1	PASI-A
		SM 4500-P E	TEP	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

Sample: WFSRDDWN-07 **Lab ID: 92263972001** Collected: 08/18/15 12:19 Received: 08/19/15 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.027**	mg/L	0.010	1		08/21/15 19:39	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		08/28/15 17:05	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.36**	mg/L	0.020	1		08/26/15 17:16		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.47**	mg/L	0.050	1		08/25/15 13:46	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	ND	mg/L	1.0	20		08/19/15 12:00		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

Sample: WFSREFF-07 **Lab ID: 92263972002** Collected: 08/18/15 12:29 Received: 08/19/15 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.076**	mg/L	0.010	1		08/21/15 19:39	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.93**	mg/L	0.50	1		08/28/15 17:06	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.70**	mg/L	0.020	1		08/26/15 17:19		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**3.4**	mg/L	0.050	1		08/25/15 13:47	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**3.5**	mg/L	0.50	10		08/19/15 12:00		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

Sample: WFSRUP-07 **Lab ID: 92263972003** Collected: 08/18/15 12:38 Received: 08/19/15 10:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.023**	mg/L	0.010	1		08/21/15 19:41	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		08/28/15 17:07	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.15**	mg/L	0.020	1		08/26/15 17:21		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		08/25/15 13:47	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.081**	mg/L	0.050	1		08/19/15 12:00		

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QUALITY CONTROL DATA

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

QC Batch: WETA/24193 | Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 | Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92263972001, 92263972002, 92263972003

METHOD BLANK: 1538389 | Matrix: Water
Associated Lab Samples: 92263972001, 92263972002, 92263972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	08/21/15 19:23	

LABORATORY CONTROL SAMPLE: 1538390

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.95	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1538391 1538392

Parameter	Units	92264017011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.046	1	1	0.81	0.81	76	76	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1538393 1538394

Parameter	Units	92264017012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.056	1	1	0.80	0.77	74	72	90-110	3	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

QC Batch: WETA/24250 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92263972001, 92263972002, 92263972003

METHOD BLANK: 1541502 Matrix: Water
Associated Lab Samples: 92263972001, 92263972002, 92263972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	08/28/15 16:57	

LABORATORY CONTROL SAMPLE: 1541503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1541504 1541505

Parameter	Units	92263969012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	ND	10	10	1.4	0.88	11	6	90-110	46	10	M1,R1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

QC Batch: WETA/24261 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92263972001, 92263972002, 92263972003

METHOD BLANK: 1541888 Matrix: Water
Associated Lab Samples: 92263972001, 92263972002, 92263972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	08/26/15 16:47	

LABORATORY CONTROL SAMPLE: 1541889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.3	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1541890 1541891

Parameter	Units	92264769001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.047	2.5	2.5	2.4	2.3	95	92	75-125	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1541892 1541893

Parameter	Units	92264784002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.043	2.5	2.5	1.9	1.9	74	73	75-125	1	10	M1

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

QC Batch: WETA/24221 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92263972001, 92263972002, 92263972003

METHOD BLANK: 1540021 Matrix: Water
Associated Lab Samples: 92263972001, 92263972002, 92263972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	08/25/15 13:38	

LABORATORY CONTROL SAMPLE: 1540022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1540023 1540024

Parameter	Units	92263857004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	2.5	2.5	2.6	2.6	102	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1540025 1540026

Parameter	Units	92264119001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	6.3	2.5	2.5	8.3	9.2	83	118	90-110	10	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

QC Batch: WETA/24171 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92263972001, 92263972002, 92263972003

METHOD BLANK: 1536934 | Matrix: Water
Associated Lab Samples: 92263972001, 92263972002, 92263972003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	08/19/15 12:00	

LABORATORY CONTROL SAMPLE: 1536935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.25	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1536936 1536937

Parameter	Units	92263754001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	.25	.25	0.35	0.35	121	119	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384 8/18
Pace Project No.: 92263972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92263972001	**WFSRDDWN-07**	EPA 350.1	WETA/24193		
92263972002	**WFSREFF-07**	EPA 350.1	WETA/24193		
92263972003	**WFSRUP-07**	EPA 350.1	WETA/24193		
92263972001	**WFSRDDWN-07**	EPA 351.2	WETA/24250		
92263972002	**WFSREFF-07**	EPA 351.2	WETA/24250		
92263972003	**WFSRUP-07**	EPA 351.2	WETA/24250		
92263972001	**WFSRDDWN-07**	EPA 353.2	WETA/24261		
92263972002	**WFSREFF-07**	EPA 353.2	WETA/24261		
92263972003	**WFSRUP-07**	EPA 353.2	WETA/24261		
92263972001	**WFSRDDWN-07**	EPA 365.1	WETA/24221		
92263972002	**WFSREFF-07**	EPA 365.1	WETA/24221		
92263972003	**WFSRUP-07**	EPA 365.1	WETA/24221		
92263972001	**WFSRDDWN-07**	SM 4500-P E	WETA/24171		
92263972002	**WFSREFF-07**	SM 4500-P E	WETA/24171		
92263972003	**WFSRUP-07**	SM 4500-P E	WETA/24171		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384
Project Name:	Stones BOD
Project Number:	152384

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSRDMM-07	WT	G			8/18/15	1219		2	1	1								1	1	1		92263972-001
2	WFSREFF-07	WT	G			8/18/15	1229		2	1	1								1	1	1		002
3	WFSR UP-07	WT	G			8/18/15	1238		2	1	1								1	1	1		002
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
✱ Use lowest detection ✱ limits possible	Katie Lopez	8/18/15	1245		8/19/-	10:40	21	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Lopez

SIGNATURE of SAMPLER: Katie Lopez DATE Signed (MM/DD/YY): 08/18/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Aquaeter

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 2.1 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RPB 8/19/15

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WW		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 8/19/15

SRF Review: [signature] Date: 8/19/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92263972

92263972

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
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(704)875-9092

August 17, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on August 04, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Kelley Spence, Aquaeter

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CERTIFICATIONS

Project:	Stones BOD 152384 8/3
Pace Project No.:	92261609

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92261609001	**WFSRDOWN-07**	Water	08/03/15 12:38	08/04/15 10:30
92261609002	**WFSREFF-07**	Water	08/03/15 12:54	08/04/15 10:30
92261609003	**WFSRUP-07**	Water	08/03/15 13:01	08/04/15 10:30

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92261609001	**WFSRDOWN-07**	EPA 350.1	SER	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	TEP	1	PASI-A
92261609002	**WFSREFF-07**	EPA 350.1	SER	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	TEP	1	PASI-A
92261609003	**WFSRUP-07**	EPA 350.1	SER	1	PASI-A
		EPA 351.2	SER	1	PASI-A
		EPA 353.2	SER	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	TEP	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

Sample: WFSRDOWN-07 **Lab ID: 92261609001** Collected: 08/03/15 12:38 Received: 08/04/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.043**	mg/L	0.010	1		08/16/15 00:25	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		08/13/15 07:26	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.35**	mg/L	0.020	1		08/11/15 07:22		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.50**	mg/L	0.050	1		08/08/15 06:01	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.62**	mg/L	0.25	5		08/05/15 11:50		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

Sample: WFSREFF-07 **Lab ID: 92261609002** Collected: 08/03/15 12:54 Received: 08/04/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.053**	mg/L	0.010	1		08/16/15 00:25	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.95**	mg/L	0.50	1		08/13/15 07:27	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.77**	mg/L	0.020	1		08/11/15 07:24		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**3.4**	mg/L	0.050	1		08/08/15 06:02	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**3.3**	mg/L	0.50	10		08/05/15 11:50		

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ANALYTICAL RESULTS

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

Sample: WFSRUP-07 **Lab ID: 92261609003** Collected: 08/03/15 13:01 Received: 08/04/15 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.039**	mg/L	0.010	1		08/16/15 00:25	7664-41-7	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.50	1		08/13/15 07:28	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.12**	mg/L	0.020	1		08/11/15 07:25		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		08/08/15 06:02	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.051**	mg/L	0.050	1		08/05/15 11:50		

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QUALITY CONTROL DATA

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

QC Batch: WETA/24133 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92261609001, 92261609002, 92261609003

METHOD BLANK: 1534932 Matrix: Water
Associated Lab Samples: 92261609001, 92261609002, 92261609003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	08/16/15 00:25	

LABORATORY CONTROL SAMPLE: 1534933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	0.97	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1534934 1534935

Parameter	Units	92261704001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	9.7	1	1	10.8	11.1	104	133	90-110	3	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1534936 1534937

Parameter	Units	92262690003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.038	1	1	0.85	0.85	81	81	90-110	0	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

QC Batch: WETA/24075 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 92261609001, 92261609002, 92261609003

METHOD BLANK: 1531405 Matrix: Water
Associated Lab Samples: 92261609001, 92261609002, 92261609003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.50	08/13/15 07:09	

LABORATORY CONTROL SAMPLE: 1531406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	10	9.6	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1531407 1531408

Parameter	Units	92262044001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	2.4	10	10	12.7	12.6	102	102	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1531409 1531410

Parameter	Units	92261571001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	52.3	10	10	62.7	63.8	104	115	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

QC Batch: WETA/24046 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92261609001, 92261609002, 92261609003

METHOD BLANK: 1529643 | Matrix: Water
Associated Lab Samples: 92261609001, 92261609002, 92261609003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	08/11/15 07:06	

LABORATORY CONTROL SAMPLE: 1529644

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.4	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529645 1529646

Parameter	Units	92262305003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.050	2.5	2.5	2.6	2.6	101	101	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1529647 1529648

Parameter	Units	92261695001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	3.2	2.5	2.5	6.3	5.5	124	91	75-125	14	10	R1

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(704)875-9092

QUALITY CONTROL DATA

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

QC Batch: WETA/24019 | Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 | Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92261609001, 92261609002, 92261609003

METHOD BLANK: 1528401 | Matrix: Water
Associated Lab Samples: 92261609001, 92261609002, 92261609003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	08/08/15 05:44	

LABORATORY CONTROL SAMPLE: 1528402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.6	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1528403 1528404

Parameter	Units	92260653001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	0.60	2.5	2.5	3.2	3.2	105	105	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1528405 1528406

Parameter	Units	92261499001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	2.0	2.5	2.5	4.6	4.6	104	105	90-110	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

QC Batch: WETA/23984 | Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E | Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92261609001, 92261609002, 92261609003

METHOD BLANK: 1525602 | Matrix: Water
Associated Lab Samples: 92261609001, 92261609002, 92261609003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	08/05/15 11:50	

LABORATORY CONTROL SAMPLE: 1525603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.23	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1526131 1526132

Parameter	Units	92261804001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	.25	.25	0.24	0.24	91	90	90-110	2	10	

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QUALIFIERS

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384 8/3
Pace Project No.: 92261609

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92261609001	**WFSRDOWN-07**	EPA 350.1	WETA/24133		
92261609002	**WFSREFF-07**	EPA 350.1	WETA/24133		
92261609003	**WFSRUP-07**	EPA 350.1	WETA/24133		
92261609001	**WFSRDOWN-07**	EPA 351.2	WETA/24075		
92261609002	**WFSREFF-07**	EPA 351.2	WETA/24075		
92261609003	**WFSRUP-07**	EPA 351.2	WETA/24075		
92261609001	**WFSRDOWN-07**	EPA 353.2	WETA/24046		
92261609002	**WFSREFF-07**	EPA 353.2	WETA/24046		
92261609003	**WFSRUP-07**	EPA 353.2	WETA/24046		
92261609001	**WFSRDOWN-07**	EPA 365.1	WETA/24019		
92261609002	**WFSREFF-07**	EPA 365.1	WETA/24019		
92261609003	**WFSRUP-07**	EPA 365.1	WETA/24019		
92261609001	**WFSRDOWN-07**	SM 4500-P E	WETA/23984		
92261609002	**WFSREFF-07**	SM 4500-P E	WETA/23984		
92261609003	**WFSRUP-07**	SM 4500-P E	WETA/23984		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1903725

Section A Required Client Information:

Company: AquaTer, Inc.
Address: 215 Jamestown Park, Ste 10
Brentwood, TN 37027
Email To: jmcorn@aquateter.com
Phone: 615-373-8532 Fax: 615-373-8512
Requested Due Date/TAT:

Section B Required Project Information:

Report To: John Michael Corn
Copy To:
Purchase Order No.: ~~142299~~ 152384
Project Name: Stones IGD
Project Number: ~~142299~~ 152384

Section C Invoice Information:

Attention: Cindy Corn
Company Name: AquaTer, Inc.
Address: see client information
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): Analysis Test: Orthophosphate (N); NO_3, NO_2, TP, Ammonia (N); TKN (N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Orthophosphate	NO_3, NO_2, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WESRDWN-07	WT	G			8/3/15	1238		2	1	1							1	1	1		92261609-001
2	WESREff-07	WT	G			8/3/15	1254		2	1	1							1	1	1		002
3	WESRUp-07	WT	G			8/3/15	1301		2	1	1							1	1	1		003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Use lowest possible detection limits	Katie Lopez	8/3/15	1310	Matt Steuer AVL	8/4/15	1030	2.9	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Lopez

SIGNATURE of SAMPLER: Katie Lopez

DATE Signed (MM/DD/YY): 08/03/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: Aquaeter, Inc.

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0 C

Corrected Cooler Temp.: 2.9 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 8/4/15 MS

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. Orthophosphate
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: [signature] Date: 8/4/15

SRF Review: [signature] Date: 8/4/15

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92261609

92261609

Pace Analytical Services, Inc.
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(704)875-9092

August 12, 2015

Mr. John Michael Corn, P.E.
Aquaeter
215 Jamestown Park
Suite 100
Brentwood, TN 37027

RE: Project: Stones BOD 152384
Pace Project No.: 92261025

Dear Mr. Corn, P.E.:
Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chris Derouen
christopher.derouen@pacelabs.com
Project Manager

Enclosures

cc: Kelley Spence, Aquaeter

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project:	Stones BOD 152384
Pace Project No.:	92261025

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Stones BOD 152384
Pace Project No.: 92261025

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92261025001	**WFSRDOWN-07**	Water	07/29/15 12:37	07/30/15 10:45
92261025002	**WFSREFF-07**	Water	07/29/15 12:58	07/30/15 10:45
92261025003	**WFSRUP-07**	Water	07/29/15 13:17	07/30/15 10:45

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SAMPLE ANALYTE COUNT

Project: Stones BOD 152384
Pace Project No.: 92261025

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92261025001	**WFSRDOWN-07**	EPA 350.1	BRJ	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	DMN	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	MAB	1	PASI-A
92261025002	**WFSREFF-07**	EPA 350.1	BRJ	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	WRC	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	MAB	1	PASI-A
92261025003	**WFSRUP-07**	EPA 350.1	BRJ	1	PASI-A
		EPA 351.2	AES2	1	PASI-A
		EPA 353.2	WRC	1	PASI-A
		EPA 365.1	SER	1	PASI-A
		SM 4500-P E	MAB	1	PASI-A

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92261025

Sample: WFSRDOWN-07 **Lab ID: 92261025001** Collected: 07/29/15 12:37 Received: 07/30/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.034**	mg/L	0.010	1		08/05/15 06:16	7664-41-7	
351.2 TKN, Low Level	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**0.36**	mg/L	0.10	1		08/06/15 17:27	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.28**	mg/L	0.020	1		08/06/15 18:11		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**0.48**	mg/L	0.050	1		08/05/15 05:15	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**0.46**	mg/L	0.25	5		07/30/15 13:20		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92261025

Sample: WFSREFF-07 **Lab ID: 92261025002** Collected: 07/29/15 12:58 Received: 07/30/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.028**	mg/L	0.010	1		08/05/15 06:16	7664-41-7	
351.2 TKN, Low Level	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	**1.0**	mg/L	0.10	1		08/12/15 10:02	7727-37-9	M1
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.62**	mg/L	0.020	1		08/05/15 21:08		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	**3.2**	mg/L	0.050	1		08/05/15 05:16	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	**3.2**	mg/L	0.50	10		07/30/15 13:20		

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ANALYTICAL RESULTS

Project: Stones BOD 152384
Pace Project No.: 92261025

Sample: WFSRUP-07 **Lab ID: 92261025003** Collected: 07/29/15 13:17 Received: 07/30/15 10:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
350.1 Ammonia, Low Level	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	**0.017**	mg/L	0.010	1		08/05/15 06:16	7664-41-7	
351.2 TKN, Low Level	Analytical Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	ND	mg/L	0.10	1		08/12/15 10:05	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA 353.2							
Nitrogen, NO2 plus NO3	**0.13**	mg/L	0.020	1		08/05/15 21:09		
365.1 Phosphorus, Total	Analytical Method: EPA 365.1							
Phosphorus	ND	mg/L	0.050	1		08/05/15 05:18	7723-14-0	
SM4500P-E, Phosphate, Ortho	Analytical Method: SM 4500-P E							
Orthophosphate as P	ND	mg/L	0.050	1		07/30/15 13:20		

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92261025

QC Batch: WETA/23983 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia, Low Level
Associated Lab Samples: 92261025001, 92261025002, 92261025003

METHOD BLANK: 1525460 Matrix: Water
Associated Lab Samples: 92261025001, 92261025002, 92261025003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.010	08/05/15 06:16	

LABORATORY CONTROL SAMPLE: 1525461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1525462 1525463

Parameter	Units	92260672001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.035	1	1	0.55	0.80	52	76	90-110	36	10	M1,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1525464 1525465

Parameter	Units	92261010009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Ammonia	mg/L	0.033	1	1	1.2	0.72	113	69	90-110	48	10	M1,R1

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92261025

QC Batch: WETA/23992
QC Batch Method: EPA 351.2
Analysis Method: EPA 351.2
Analysis Description: 351.2 TKN, Low Level
Associated Lab Samples: 92261025001

METHOD BLANK: 1525946
Matrix: Water
Associated Lab Samples: 92261025001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.10	08/06/15 16:54	

LABORATORY CONTROL SAMPLE: 1525947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.5	2.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1525948 1525949

Parameter	Units	92260672001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.50	2.5	2.5	3.1	2.9	103	95	90-110	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1525950 1525951

Parameter	Units	92261010009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	0.15	2.5	2.5	2.4	2.5	90	95	90-110	6	10	

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(704)875-9092

QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92261025

QC Batch: WETA/24072 | Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 | Analysis Description: 351.2 TKN, Low Level
Associated Lab Samples: 92261025002, 92261025003

METHOD BLANK: 1530926 | Matrix: Water
Associated Lab Samples: 92261025002, 92261025003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	0.10	08/12/15 10:30	

LABORATORY CONTROL SAMPLE: 1530927

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	2.5	2.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1530928 1530929

Parameter	Units	92261025002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, Kjeldahl, Total	mg/L	1.0	2.5	2.5	3.8	3.5	111	99	90-110	8	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92261025

QC Batch: WETA/24004 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92261025002, 92261025003

METHOD BLANK: 1527136 | Matrix: Water
Associated Lab Samples: 92261025002, 92261025003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	08/05/15 20:39	

LABORATORY CONTROL SAMPLE: 1527137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.3	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1527138 1527139

Parameter	Units	92261623001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.065	2.5	2.5	2.7	2.7	105	105	75-125	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1527140 1527141

Parameter	Units	92261624001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	1.3	2.5	2.5	3.5	3.4	86	85	75-125	1	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92261025

QC Batch: WETA/24009
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, preserved
Associated Lab Samples: 92261025001

METHOD BLANK: 1527185
Matrix: Water
Associated Lab Samples: 92261025001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	ND	0.020	08/06/15 17:54	

LABORATORY CONTROL SAMPLE: 1527186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2.5	2.3	91	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1527187 1527188

Parameter	Units	92261878001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	0.48	2.5	2.5	2.6	2.6	87	84	75-125	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1527189 1527190

Parameter	Units	92261058003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrogen, NO2 plus NO3	mg/L	2.4	2.5	2.5	4.4	4.4	79	79	75-125	0	10	

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92261025

QC Batch: WETA/23963 Analysis Method: EPA 365.1
QC Batch Method: EPA 365.1 Analysis Description: 365.1 Phosphorus, Total
Associated Lab Samples: 92261025001, 92261025002, 92261025003

METHOD BLANK: 1524555 Matrix: Water
Associated Lab Samples: 92261025001, 92261025002, 92261025003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/L	ND	0.050	08/05/15 05:02	

LABORATORY CONTROL SAMPLE: 1524556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1524557 1524558

Parameter	Units	92260030004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	ND	2.5	2.5	2.4	2.4	95	96	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1524559 1524560

Parameter	Units	92260920001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Phosphorus	mg/L	13.4	2.5	2.5	15.4	15.7	80	90	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: Stones BOD 152384
Pace Project No.: 92261025

QC Batch: WETA/23934 Analysis Method: SM 4500-P E
QC Batch Method: SM 4500-P E Analysis Description: SM4500P-E Phosphorus, Ortho
Associated Lab Samples: 92261025001, 92261025002, 92261025003

METHOD BLANK: 1522108 Matrix: Water
Associated Lab Samples: 92261025001, 92261025002, 92261025003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.050	07/30/15 13:20	

LABORATORY CONTROL SAMPLE: 1522109

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.25	0.26	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1522110 1522111

Parameter	Units	92260846001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Orthophosphate as P	mg/L	ND	.25	.25	0.25	0.25	92	92	90-110	0	10	

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QUALIFIERS

Project: Stones BOD 152384
Pace Project No.: 92261025

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Stones BOD 152384
Pace Project No.: 92261025

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92261025001	**WFSRDOWN-07**	EPA 350.1	WETA/23983		
92261025002	**WFSREFF-07**	EPA 350.1	WETA/23983		
92261025003	**WFSRUP-07**	EPA 350.1	WETA/23983		
92261025001	**WFSRDOWN-07**	EPA 351.2	WETA/23992		
92261025002	**WFSREFF-07**	EPA 351.2	WETA/24072		
92261025003	**WFSRUP-07**	EPA 351.2	WETA/24072		
92261025001	**WFSRDOWN-07**	EPA 353.2	WETA/24009		
92261025002	**WFSREFF-07**	EPA 353.2	WETA/24004		
92261025003	**WFSRUP-07**	EPA 353.2	WETA/24004		
92261025001	**WFSRDOWN-07**	EPA 365.1	WETA/23963		
92261025002	**WFSREFF-07**	EPA 365.1	WETA/23963		
92261025003	**WFSRUP-07**	EPA 365.1	WETA/23963		
92261025001	**WFSRDOWN-07**	SM 4500-P E	WETA/23934		
92261025002	**WFSREFF-07**	SM 4500-P E	WETA/23934		
92261025003	**WFSRUP-07**	SM 4500-P E	WETA/23934		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	AquAeTer, Inc.
Address:	215 Jamestown Park Ste 100
	Brentwood, TN 37027
Email To:	jmcorn@aquaeter.com
Phone: 615-373-8532	Fax: 615-373-8512
Requested Due Date/TAT:	ASAP

Section B Required Project Information:

Report To:	John Michael Corn
Copy To:	
Purchase Order No.:	152384 ~~142299~~
Project Name:	Stones BOD
Project Number:	152384 ~~142299~~

Section C Invoice Information:

Attention:	Cindy Corn
Company Name:	AquAeTer, Inc.
Address:	See client information
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: TN

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): Y/N; Analysis Test: Orthophosphate; $NO_3 + NO_2$, TP, Ammonia; TKN

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	Composite Start Time	Composite End/Grab Date	Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Orthophosphate	$NO_3 + NO_2$, TP, Ammonia	TKN	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	WFSR Down - 07	WT	G	7/29/15	1237				2	1	1							1	1	1		92261025-001
2	WFSREFF - 07	WT	G	7/29/15	1258				2	1	1							1	1	1		002
3	WFSR UP - 07	WT	G	7/29/15	1317				2	1	1							1	1	1		003
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Use lowest detection limits possible	Rachel O. Stribling	7/29/15	1520	Rachel Denise Tr	7/30/15	~~15:20~~ 10:35	3.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rachel O. Stribling

SIGNATURE of SAMPLER: Rachel O. Stribling DATE Signed (MM/DD/YY): 7/29/15

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical® www.pacelabs.com	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: May 15, 2015 Page 1 of 2*
	Document No.: F-ASV-CS-003-rev.14	Issuing Authorities: Pace Asheville Quality Office

Client Name: AquAeter

* Page 2 of 2 is for Internal Use Only

Courier (Circle): Fed Ex UPS USPS Client Commercial Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other_____

Thermometer Used: IR Gun#3 -130265963 **Type of Ice:** Wet Blue None ☑ Samples on ice, cooling process has begun

IR Gun #4 SN:140290365 Other:_____

Temp Correction Factor: Add / Subtract 0.0 C

Corrected Cooler Temp.: 3.2 C **Biological Tissue is Frozen:** Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: RBB 7/29/15

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6. orthophos KMM 7/30
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WW		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☑No	
Samples checked for dechlorination:	☑Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	15.
Trip Blank Present:	☐Yes ☐No ☑N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: _____ **Date:** _____

SRF Review: _____ **Date:** _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92261025

92261025