

Catherine E. Heigel, Director Promoting and protecting the health of the public and the environment

Date:

August 20, 2015

To:

James C. Berry

Office of Environmental Laboratory Certification

Bureau of Environmental Health Services

RECEIVED

AUG 27 2015

From:

Betsy B. Carter, Lab Assistant

LAB CERTIFICATION

Midlands Region-Lancaster Laboratory

Re:

Laboratory I.D. # 29206

Certificate # 29206001

Subject:

Response to the report of the On-Site Laboratory Certification Evaluation of the

Midlands-Lancaster Laboratory

This response is in regards to the on-site laboratory evaluation of the Midlands Region-

Lancaster Laboratory conducted on June 22, 2015 by James Berry and Susan Butts.

TEMPERATURE-SM 2550 B-2010

Finding:

The thermometer in the spore ampule incubator has not been verified for accuracy

since 3/2014.

<u>Response</u>

The thermometer calibration for the thermometer used in the spore ampule incubator

is now current. See attached record DHEC form 2167, thermometer serial # 15-021-5B.

RESIDUAL CHLORINE - SM 4500 - CL G - 2011

Finding:

The laboratory is not analyzing a 0.05mg/L (Reporting Limit RL) standard with the daily calibration check.

GOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL 2600 Bull Street • Columbia, SC2920I • Phone: (803) 898-3132 • www.scdhec.gov

Response:

Section 14 of the field SOP has recently been updated to reflect this requirement. The laboratory and drinking water staff have been analyzing the required 0.05mg/L. See attached field logbook sheets. The waste water sampler was unaware of the 0.05 mg/L requirement. He is now aware and will be analyzing a 0.05 mg/L for the daily calibration check. No samples requiring chlorine to be checked have been collected by waste water sampler since the audit. A chlorine audit sample will be analyzed before September 24, 2015. A Calibration record will be available at that time.

Conclusion

The Laboratory has been working in conjunction with the other Regional Laboratories and Central Laboratory to update our SOP, workbooks and data sheets to include current requirements. Thank you for your comments and suggestions.



Betsy B. Carter Laboratory Assistant EQC Region 3 Lancaster RECEIVED

AUG 27 2015

LAB CERTIFICATION



Annual Thermometer Calibration Analytical & Radiological Environmental Services Division

Fiscal Year: 2016

PROMOTE PROTECT PROSP				S	A VICES LAIVISIU	и	Fiscal Year	r: <u>2016</u>
Thermometer Tested By: Date & Initials	Information Recorded By: Date & Initials	Thermome	eter Tested * ID	Thermometer Location (Equipment ID)			Reading B (Thermometer Tested)	A-B (Correction Factor)
7/14/18 BC	7/14/15 BC	7035	NIA	Air Incubator. Top Shelf				
			70771	05044310	4T7640	34.4	34. 3	+0.1
7/14/15 BC	7/14/15 BC	4953		bottom shelf		33.8	34.2	-0.4
7/15/15 GC	7/15/15 BC	1711142578		Small waterbath 209056-545		43.7	44.	-0.4
7/16/15 BC	7/16/15 BC	2223	1	Large waterbath 3.161		44.5	44.8	-0.3
7/17/15BC	7/17/15 BC	15-041-4D		thermometer holder		21.7	22.0	-0.3
7/17/15 BC	7/17/15BC	4605		Refrigerator - Sample login 17B201002-00085		3.3	3.0	+ 0.3
7/21/15 BC	7/21/1500	076100132		D.C. Meter. ysi 5100 OSM 1900 AA		21.9	21.96	-0.06
7/22/15 BC	7/22/15 BC			Refrigerator 84.51.816		2.2	2.0	
8/4/15 00	8/4/15 BC	15-021-5 8- 80	814115	Spore Incubator Autoclave room		34.2	34.0 33 8 8 14 kg	+0.2
8/6/15 BC	1			spare Chem Lab		2.1	1.5	
		1943				2.1		+0.6
8/20/15 BC	8/20/15 BC	CP 15 #2		Spare Chem Lab		22.5	2.0 23.0	+0.1
						<i>77.1</i>		-0.5
				EIV 27 20				
				PECE NIS 27				
				<u> </u>				
DHEC 2167 (03/2015)					*ID I			

*ID=Instrument Services Identification Number



South Carolina Department of Health and Environmental Control

Drinking Water Sample Collection and Field Analysis

Date: 7/13/15 (Calibration, sample analysis, and sample collection are all performed on the same day)

pH Meter Calibration	pH Meter Check	Total Residual Chlorine	Free Residual Chlorine	Cl2 Present/ Absence/ DPD Check		
Beginning Time	End Time	Calibration	Calibration	Meter ID:	Meter ID:	
Analyst Initials:		Blank (mg/L): 0,00	Blank (mg/L):	Gel	Tap Water	
pH 4 reading (s.u.):	pH 4 reading (s.u.):	0.5mg/L standard: 0.55	0.5mg/L standard:	Lot:	Tap H2O Blank:	
pH 7 reading (s.u.):	pH 7 reading (s.u.):	1.0mg/L standard:	1.0mg/L standard:	Blank:	Tap H2O W/ DPD:	
pH 10 reading (s.u.):	pH 10 reading (s.u.):	DPD Lot# A4309	DPD Lot#	STD1:	DPD Lot#	
Slope Reading:		Meter ID: 1802 OF II	Time: 945	STD2:	Time:	
Meter ID:			1.0	STD3:		

*Samples analyzed within 15 minutes of collection Sample Collector's Signature: Summile Budle

0,05 std -> 0,06

Sample ID/Location	*Time Collected	pH Result (s.u.)	7.00 Buffer Check	Free Chlorine Result (mg/L)	Total Chlorine Result (mg/L)	Present (P) or Absent (A)	Analyst's Initials	Comments
Bush-N-Vine -0185p	1135			2303	<0.05		888	
4	•			,	40.05		Errors	applicate
Kings MM SP- Shap 10/55p	,				<0.05		883	
Linghistry - PR	125		<u>8</u>		20.05		5BB	2.
Camplhookee-950		N N N	2015 ICATI		<0.05		SPAR	
Camp y or Torsop	1945	- 100	27 20 TTIFIC		KO.05		SPOB	
Kingsmin Nat PK - 2015 5 P. S.	1315	Ш	≈ E		0.73		SYOB	Chlorinater
The Reach Dea - 015 sp.	1355	Щ	2 m		<0.05		SBB	
		Œ	9					
							·	
		,						
		·						

Laboratory Workbook for Total Chlorine Residual Analytical & Radiological Environmental Services Division

PROMOTE PROTECT PROSPER								
Sample Number	Location	Time of Analysis		Value mg/L	Reported Value mg/L			
070615-005	Method Blank	11	įde	0.00	0.00			
070615-003	Calibration Stnd	11	128	1,03	1,63			
MOG15 - 004	LFB Lab Pure Hzo	1	430	0.05	0.05			
0.706159 001	Micro Lab sink	11	142	0.00	40.05			
dup		1	443	0.01	·			
070615-004	LFB		459	0.05	0.05			
	-							
				REC	CEIVED			
				2 7 2015				
					LAB CERTIFICATION			
				DIS OLI	THICATION			
				-				
Handheld Spec ID:	14577 PC TI	<u> </u>	KMNO4 Tr	racking ID: 02	1315 - 701			
Calibration Date:		Analyst: <u>PC</u> Date: 7/6/15						
DPD Lot # <u>유닉고기</u>	1	Results Verified By: 43 Date: 7//3/15						
Method Blank ID: <u>870</u>		Results Recorded By: 45 Date: 7/6/15						
LFB ID: 070615 -		Recorded Results Verified By: Date:						
Calibration Std. ID: <u>t7</u>	0615-003		QC Recorded By: Compare: 7/6/15					
		QC Verified By: Date:						
· · · · · · · · · · · · · · · · · · ·			L					