Regional Inspectors' Checklist for Field Parameters

This checklist is to be completed during regional plant inspe					the 5000s.]		
Facility Name:		Regional Plant Inspector:					
Permit #:		Regional Inspector Contact #:					
Field Lab Certification #:		Region:					
Lab Contact: Date:							
I. Check the parameter(s) performed at this site for reporting purposes. Total Residual Chlorine (TRC) Dissolved Oxygen (DO) Settleable Residue (SETT) II. General Laboratory (note any exceptions in section XI)							
Are instruments, meters, probes, photometric cells, etc. maintained in good condition?					Yes	No	
Are standards, reagents and consumables used within manufacturer expiration dates? [TRC gel standard is exempt.]					Yes	□No	
Are the following items documented (√ where a	• •		TEMP	DO	00	OFTT	
Item	TRC	рН	TEMP	DO	SC	SETT	
Date of sample collection*							
Time of sample collection*					1		
Sample collector's initials or signature			1		1		
Date of sample analysis*					NI/A		
Time of sample analysis*					N/A		
Analyst initials or signature Sample site (i.e., facility name, location, ID, etc.)			+				
Instrument ID						N/A	
Parameter						111/75	
Data qualifiers, when required							
*Date and time of sample collection and analysis may be the	same for <i>in</i>	<u>l</u> situ or on-sit	<u>l</u> te measureme	l nts.			
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III. Total Residual Chlorine – reference method:							
Total Residual Chlorine meter make and model:							
Is a check standard analyzed each day of use? (Circle one: gel or liquid standard)					☐ Yes	☐ No	
Does the check standard recover within ±10% of the known value?						☐ No	
What is the assigned/observed value of the daily check standard?							
Is a 5-standard calibration verification performed? Note date of last verification:						∐ No	
Alternatively, does the lab construct a linear regression, using 5 standards, to calculate						□No	
results? Note date of last calibration curve constructed:							
True values:							
Obtained values: µg/L mg/L							
What program are samples analyzed on?							
Are results reported in proper units? Check one: µg/L mg/L					Yes	☐ No	
Are results reported between the facility's permit limit and the compliance limit of 50 µg/L?					Yes	☐ No	
Are results less than the low standard reported as " <x", conc.?<="" standard="" td="" where="" x="low"><td>☐ Yes</td><td>∐ No</td></x",>					☐ Yes	∐ No	
Is DPD/buffer added within 15 minutes of collection? Is a post-analysis check standard analyzed if samples are analyzed at multiple sites?					Yes	☐ No	
IV. pH – reference method:	pies are a	naiyzeu a	t multiple sit	es :	│	∐ No	
pH meter manufacturer and model:							
•	or mfa's ir	actructions	s oach day o	of uso?			
Is the pH meter calibrated with at least 2 buffers per mfg's instructions each day of use? Note buffers used:					Yes	☐ No	
Is the pH meter calibration checked with an additional buffer prior to sample analysis? Note check buffer used:					☐ Yes	□No	
Does the check buffer read within ±0.1 S.U. of the known value?						☐ No	
Are the following items documented:					☐ Yes		
Meter calibration?					Yes	☐ No	
Check buffer reading(s)?					Yes	☐ No	
Are samples analyzed within 15 minutes of collection?					☐ Yes	☐ No	

Yes

Yes

No

No

Are sample results reported to 0.1 pH units on the eDMR?

Is a post-analysis check buffer analyzed if samples are analyzed at multiple sites?

V. Temperature – reference method:		
What instrument(s) is used to measure temperature? Check all that apply: pH meter		
□ DO meter □ Conductivity meter □ Digital thermometer □ Glass thermometer		
Is the instrument/thermometer calibration checked at least annually against a NIST	□ Voo	□ No
traceable thermometer?	☐ Yes	☐ No
Is NIST traceability documentation maintained on site?		☐ No
Are samples measured within 15 minutes?		☐ No
Are sample results reported in degrees C?		☐ No
VI. Dissolved Oxygen – reference method:		
DO meter make and model:		
Is the air calibration of the DO meter performed each day of use?	Yes	☐ No
Is meter calibration documented?	Yes	No
Are samples analyzed within 15 minutes of collection?	Yes	No
Are results reported in mg/L?	Yes	No
If samples are analyzed at multiple sites, is the meter recalibrated at each site or a post-		
analysis calibration verification performed?	☐ Yes	☐ No
Does the post-analysis verification theoretical value agree within 0.5 mg/L of the meter		
calibration reading?	☐ Yes	☐ No
VII. Conductivity – reference method:		
Conductivity meter make and model:		
Is the meter calibrated daily according to the manufacturer's instructions? Note standard	Yes	No
used (this is generally a one-point calibration):		
Is a daily check standard analyzed? Note value:		No
Is meter calibration documented?	Yes	No
Are samples analyzed within 28 days of collection?		No
Is a post-analysis check standard analyzed if multiple samples are analyzed?	Yes	
Are results reported in µmhos/cm (some meters display equivalent µS/cm units)?	Yes	No
VIII. Settleable Residue – reference method:		
Does the laboratory have an Imhoff Cone in good condition?	Yes	No
Is the sample settled for 1 hour?	Yes	No
Is the sample agitated after 45 minutes?	Yes	□ No
Are the following items documented:	163	
Volume of sample analyzed? Note volume analyzed (must use 1L):	Yes	No
Date and time of sample analysis (settling start time)?	Yes	No
Time of agitation after 45 minutes of settling?		No
Sample analysis completion (settling end time)?	Yes	No
Are samples analyzed within 48 hours of collection?	Yes	No
Are results reported in ml/L?	Yes	No
IX. Was a paper trail (comparing contract lab and on-site data to DMRs) performed? If so, list months reviewed:	∐ Yes	∐ No
X. Is follow-up by the Laboratory Certification program recommended?	Yes	No
A. Is follow-up by the Laboratory Certification program recommended:		
XI. Additional comments:		
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Please submit a copy of this completed form to the Laboratory Certification program at:

DWR Lab Certification, Water Sciences Section, 1623 Mail Service Center, Raleigh NC, 27699-1623

Electronic copies may be emailed to Jennifer.seaver@ncdenr.gov.