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Surface Water Treatment Plant Requirements for Monthly Reporting and Public Notification

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Prepared by the
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Texas Commission on Environmental Quality

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Abbreviations

ACC	alternative compliance criteria
BW	backwash
BWN	Boil Water Notice
C	concentration
CA	corrective action
CAP	corrective action plan
CDA	calculated dose approach
CF	correction factor
CFE	combined filter effluent
CIP	clean-in-place
CLA	chloramine
CLO ₂	chlorine dioxide
COD	certificate of delivery
CPE	Comprehensive Performance Evaluation
CT	concentration time
DBP	disinfection byproduct
DIT	direct integrity test
DPD	N,N diethyl-1,4 phenylenediamine sulfate
DWW	Drinking Water Watch
EPA	Environmental Protection Agency
FAR	Filter Assessment Report
FCL	free chlorine
FPR	Filter Profile Report
GAC	granulated activated carbon
gfd	gallons per square foot per day
gpd	gallons per day
gpm	gallons per minute
GUI	groundwater under the direct influence of surface water
HAA5	haloacetic acids
ID	identification
IFE	individual filter effluent
IIT	indirect integrity test
ISA	intensity setpoint approach
LAS	liquid ammonium sulfate
L/min	liter per minute
L/D	length to depth
LOH	loss of head
LOHG	loss of head gauge
LRC	log removal credit
LT2	Long Term 2 Enhanced Surface Water Treatment Rule
MBT	marker-based test
MCL	maximum contaminant level
mCPE	Mandatory Comprehensive Performance Evaluation
MD	missing data
MDL	minimum detection limit
MG	million gallons
MGD	million gallons per day

mg/L	milligrams per liter
MOR	monthly operating report
mNTU	milli-nephelometric turbidity unit
M/R	monitoring or reporting
ND	no data
NA	not applicable
NIST	National Institute of Standards and Testing
NTU	nephelometric turbidity unit
O ₃	ozone
PBT	pressure-based test
pH	potential of hydrogen
PN	public notification
PODR	point of diminishing returns
psi	pounds per square inch
PWS	public water system
QBT	flow-based test
RAA	running annual average
RG	regulatory guidance
RO	reverse osmosis
ROFC	rate-of-flow controller
SCADA	Supervision Control and Data Acquisition
SD	standard deviation
SDWA	Safe Drinking Water Act
SOP	standard operating procedure
SUVA	specific ultraviolet light absorbance
SWTP	surface water treatment plant
SWTR	Surface Water Treatment Rule
SWMOR	Surface Water Monitoring Operation Report
TAC	Texas Administrative Code
TCEQ	Texas Commission on Environmental Quality
TMP	transmembrane pressure
TNTC	too numerous to count
TOC	total organic carbon
TTHM	total trihalomethanes
UC	uniformity coefficient
UCL	upper control limit
UV	ultraviolet
UVT	ultraviolet transmittance

Overview

This guidance is for PWSs that treat surface water or groundwater under the direct influence of surface water. To comply with the Long Term 2 Enhanced Surface Water Treatment Rule (LT2 Rule), surface water treatment plant (SWTP) personnel must collect daily performance and operational data and submit monthly reports for regulatory review. This guidance explains the steps SWTPs must take to comply with monthly reporting requirements, depending on the type of technology employed.

In addition to monthly reporting, SWTP personnel must investigate performance issues, conduct special studies, and do extra reporting if they do not comply with certain rule requirements. These extra requirements are also explained in this guidance, including the requirements for public notification (PN), when applicable. The appendices include additional resources and background information related to the forms and monitoring requirements.

A list of abbreviations is provided at the front of the document for quick reference. The glossary at the end provides a comprehensive list of specialized terms with their definitions.

Rules Associated with this Guidance

The State of Texas has primacy over the regulation of public drinking water. In this capacity, TCEQ writes, adopts, and enforces Texas rules that are at least as stringent as the drinking water rules promulgated by EPA.

The primary rules governing SWTP monitoring, reporting, and compliance are contained in the following sections of 30 TAC Chapter 290, Subchapter F:

- 290.110: Disinfectant Residuals
- 290.111: Surface Water Treatment
- 290.112: Total Organic Carbon
- 290.119: Analytical Procedures
- 290.122: Public Notification

SWTPs personnel should also be aware of and comply with additional rules pertaining to drinking water. Examples include:

- 30 TAC Chapter 25: Environmental Testing Laboratory Accreditation and Certification
- 30 TAC Chapter 30: Occupational Licenses and Registrations
- 30 TAC Chapter 290, Subchapter D: Rules and Regulations for Public Water Systems
- 30 TAC Chapter 290, Subchapter H: Rules and regulations for community public water systems related to Consumer Confidence Reports
- 30 TAC Chapter 291: Utility Regulations

You can view the official, online versions of the [rules](#)¹ on the Secretary of State website. This guidance is not a substitute for the rules. It is the responsibility of each SWTP to ensure its operations comply with applicable rules and regulations. If there appears to be a discrepancy between this guidance and the rules, then follow the rules.

Additional Reporting Requirements

SWTPs are responsible for additional reports other than that described in this document. If applicable, these reports include, but are not limited to the following:

- Chlorine Dioxide MOR (TCEQ Form 00690)
- Bromate monitoring data (i.e., laboratory test reports)
- Texas Optimization Program MOR (TCEQ Form 10493)
- Recycling Practices Report (TCEQ Form 20100)

TCEQ Contact Information

For questions about rules, additional reporting requirements, and/or this guidance in general, call 512-239-4691 and ask for a Surface Water Treatment Rule (SWTR) Coordinator. You can also contact a SWTR Coordinator by emailing SWTR@tceq.texas.gov.

TCEQ Publications

To locate TCEQ publications, visit TCEQ [publications website](#)². TCEQ publications personnel can also help find documents. Contact them in one of the following ways:

- Email order to puborder@tceq.texas.gov
- Call 512-239-0028

We and You in This Guidance

“We” and “us” in this guidance refer to TCEQ. “You” refers to the individuals associated with a SWTP who do the work described in this guidance. This includes but is not limited to individuals who monitor and collect data, enter the data into forms, and sign report(s).

¹ [texreg.sos.state.tx.us/public/readtac\\$ext.ViewTAC?tac_view=3&ti=30&pt=1](http://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC?tac_view=3&ti=30&pt=1)

² www.tceq.texas.gov/publications

