

Direct Potable Water Reuse Standard Operating Procedure

Wichita Falls, Texas

RIVER ROAD HIGH CHLORINE DEMAND OR LOSS OF CHLORINE DEMAND. WW-O4

This SOP supersedes any previous SOP on this topic. Effective on the date signed approved below

INTRODUCTION

This is the Standard Operating Procedures to determine if there are interfering Chlorination compounds in the water at the River Road WWTP

OBJECTIVE

The objective of this document is to prevent chemical interferences from being transferred to the Cypress WTP

High Chlorine demand.

To be determined by an increase of dosage of greater than 40% when compared to the previous 24 hours of Chlorine dosage.

If such an event occurs do the following.

- The Chlorine analyzers will be confirmed by independent Amperometric titration.
- The Chlorinator will be checked for any possible loss of vacuum or leaks as well as the inductor and the Chlorine tank room.
- If there is a mechanical problem, maintenance will be notified immediately.
- If the Analyzer is incorrect and cannot be corrected the Electronic tech will be called out even if after hours.
- If there are no mechanic problems the Secondary Clarifier combined effluent will be tested for Nitrites.
 - If there is detection of Nitrites, each aeration basin on line will be tested for nitrites.
 - Any aeration basin that has Nitrites will have the D.O. set point raised 0.5 mg/l
 - An additional Chlorinator will be brought on line as needed.
- If none of the above resolve the issue, the Cypress WTP will be notified, the Wastewater Operations Supervisor will be notified, and the decision to shut down will begin.

Related SOP: RIVER ROAD SHUTDOWN COMMUNICATION PROTOCOL and Standardize Chlorine Titration DPR SOP

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Prepared Date: 6-16-14

Approved by: Joe Bunt

Approved Date: 6/16/14

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Reviewed by: _____

Reviewed Date: _____

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Reviewed Date: _____

*SOP's are to be reviewed and/or updated annually or any time this process has changed.

Sign below and date that you have received, read, and understand this SOP.

Name	Signature	date	Signature	date
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