

Direct Potable Water Reuse Standard Operating Procedure

Wichita Falls, Texas

Surfactant Test

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

INTRODUCTION

This is to detect evidence of surfactants in the River Road WWTP

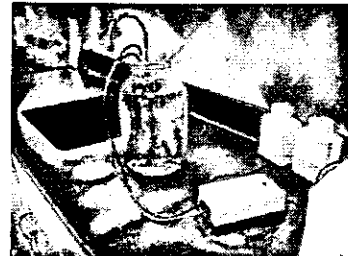
OBJECTIVE

The objective of this document is to have a repeatable test method for all form of foaming agents.

- Twice a day between 2AM and 4AM and again between 2PM and 4PM a sample of the combined Secondary Clarifier Effluent will be collected and tested for foaming.
- Whenever, there is suspicion of foaming a sample will be collected and tested.
- Once the foaming is detected, the testing will continue every four hours until the foaming is gone.

Procedure:

- The sample will come from the combined Secondary Clarifier Effluent.
- The sample will be poured up in the one gallon glass jar to the black mark.
- Both air stones will be place into the sample and allowed to aerate for 5 minutes.
- If there is foam, but it is only rising a little this may still be within normal limits and the situation should be monitored every four hours.
- If foam rises up to the top of the neck of the bottle, this is an indication of Surfactant in the water.



When the foaming is at the top of the bottle a determination must be made if the water should be sent to Water Treatment. If the water is stopped from going to water treatment, it cannot be restarted until the foaming is back to normal levels.

DAN'S
ACTION
LIST

Related SOP: RIVER ROAD SHUTDOWN COMMUNICATION PROTOCOL

Surfactant Test

Prepared By: Bill Thornton

Prepared Date: May 6, 2014

Approved by: _____

Approved Date: _____

Reviewed by: _____

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 training on this SOP. By signing you are stating that you understand and will differ to this SOP when applicable.

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