|  |  |  |
| --- | --- | --- |
| CITY OF MOLALLA WATER  C:\Users\nlennartz\Desktop\Logos for City\2 inch Emblem Spot.jpgTREATMENT PLANT | CL-17 CLEANING  PROCEDURE | DATE ISSUED  SEPT-2018 |
| SOP  #21 |

***STANDARD OPERATION PROCEDURE***

**Clean the colorimeter**

The colorimeter measuring cell may collect sediment or develop a film growth on the inside walls. Cleaning with an acid solution and a cotton swab on a monthly basis is recommended. Depending on sample conditions, it may be necessary to clean the cell more often. **If you have “low signal” system alarm the cell may need to be cleaned. If you scroll the “*setup”* menu *a*nd select “*ref”* you will see a number displayed. A reference number of 2000 or less is an indicator of a dirty cell, a reference number of 20000 or more is typical of a clean sample cell.**

**Hold procedure**

Place the instrument into the **HOLD** before cleaning the sample cell. Activate the procedure as follows:

1. Press **ENTER** then the **UP ARROW** key to activate for 60 minutes. The Alarm LED will be flashing.
2. To deactivate the feature, and return to normal operation, press **MENU** key then the **DOWN ARROW** key until **HOLD OUTPUTS** is displayed.
3. Press **ENTER.**
4. Select **OFF** and press **ENTER** again.

**Colorimeter cell cleaning procedure**

1. Press the **MENU** key, then press the down **ARROW** key until the **MAINT** menu appears. Press **ENTER**.
2. Press the down **ARROW** key to scroll to the **CLEAN** option. Press **ENTER**.
3. Remove the rubber plug on the top of the colorimeter assembly.
4. Remove the magnetic stir bar using a bent paper clip as a retrieval tool.
5. Wait until **CLEAN** flashes on the status line of the display, then fill the colorimeter with 19.2 N Sulfuric Acid Standard Solution (about 3 droppers full).
6. Allow the sulfuric acid to stand in the colorimeter for 15 minutes.
7. Insert a wooden cotton swab into opening and clean cell.
8. Install the clean stir bar.
9. Replace the rubber plug on top of the sample cell
10. Press **EXIT** to return to normal operation.

Additional information can be found in the CL17 Instruction manual located in the file cabinet labeled “Equipment Manuals”.