

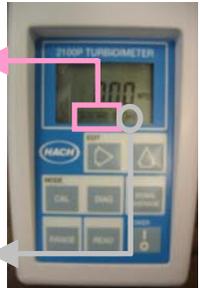
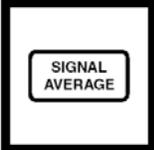
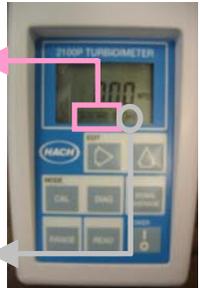
TURBIDITY TEST PROCEDURES

****Turbidity testing is to be performed on the treated water, once every delivery day.**

****SAMPLE CELL CARE IS VERY IMPORTANT****

****DIRTY, SCRATCHED, OR DAMAGED CELLS CAN CAUSE INACCURATE READINGS****

Follow These Steps To Test Turbidity:

1. Rinse the test cell 3 times with sample water. Fill the test cell to the neck of the sample cell with your sample water. Always handle the sample cell from the top to avoid fingerprints on the cell. Wipe the cell with **lint-free cloth** to remove water spots and fingerprints.  
2. Rotate and invert the cell to remove air bubbles. Make sure that the cell surface is free of dirt, fingerprints and moisture prior to measuring. Wipe the cell again with the **lint-free cloth**. Put one or two drops of silicone oil on the sample cell and distribute the oil evenly over the cell using the **lint-free cloth**. This should be done once a day. If the sample cell is scratched, throw it away. 
3. Press the **I/O** button. The instrument will turn on. Place the instrument on a flat, sturdy surface. Do not hold the instrument while taking measurements. 
4. Insert the sample cell in the instrument cell compartment so that the diamond mark is facing forwards and is aligned with mark on the front of the cell slot. **Close the lid.** 
5. Look at the instrument display to make sure that the automatic range (**AUTO RNG**) option is on. If the display does not show **AUTO RNG**, select the automatic range by pressing the **RANGE** key.  
6. Look at the instrument display to make sure that the signal averaging (**SIG AVG**) option is on. If the display does not show **SIG AVG** select the signal averaging mode by pressing the **SIGNAL AVERAGE** key.  
7. Press the **READ** button. The instrument will show --- **NTU**, then the turbidity in NTU. A lamp symbol will appear on the display and the NTU will flash until the average has been taken. When the lamp symbol turns off and the NTU stops flashing, **RECORD** the turbidity results on the log sheet. 
8. Repeat steps 1-7 to ensure you get the same result. If result is different, repeat steps 1-7 and record the average reading.
9. Rinse the cell with distilled water 3 times after use and clean the outside of the cell as required. Wrap the cell in the **lint-free cloth** and store it in the case. Cells should be cleaned as required with weak vinegar and water and a laboratory grade brush. If cells are discoloured or scratched, do not use the cell.
10. Test the GELEX Secondary Standards that are provided with the turbidity meter monthly and record the results on the log sheet. The turbidity of the GELEX Secondary Standards should be recorded on the diamond marks of the cells the first time they are tested. If subsequent turbidity readings are off by more than 10% of the number written on the standard, retest the standard. If there is still a problem, contact PW&S HQ – Water and Sanitation (920-6142) for assistance. Replace the standard cells every year. 

ALWAYS:

- Cap the sample cell to prevent spillage of the sample into the instrument.
- Close the sample compartment lid during measurement and storage.
- Do not leave a sample cell in the cell compartment for extended periods of time. This may compress the spring in the cell holder
- Avoid operating in direct sunlight.
- Make certain cold samples do not fog the sample cell.
- Avoid settling of sample prior to measurement.
- Keep sample compartment lid closed to prevent dust and dirt from entering.
- Refer to the maintenance sheet for cleaning test cell procedures.