**TYPES OF WATER REUSE**

**POTABLE REUSE**
Further purified reclaimed water used to boost water supply dedicated for drinking and other household applications.

POTABLE REUSE systems use advanced processes to remove contaminants from treated wastewater in such manner it meets drinking water quality standards and other appropriate reuse objectives.

**NON-POTABLE REUSE**
Treated wastewater for non-potable reuse is generally utilized for landscape and agricultural irrigation.

Non-potable reuse systems generally have lower water quality requirements than potable systems, and the level of treatment stages depending on the end use.

**RECLAIMED WATER – THE GLOBAL SITUATION**

**CHINA**

- The demand for reclaimed water is still low with only 4% of 24.4 billion m3 of discharged municipal wastewater being reused to irrigate 60.4 million hectares of land.

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**JAPAN**

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**BUT IS IT SAFE?**

Stigma exists around reclaimed water, however, water can be purified to the necessary standards for various uses including industrial processes, irrigation, and even drinking water.

**HOW ARE AGILENT SOLUTIONS BEING USED FOR TESTING RECLAIMED WATER?**

**IN VITRO SYSTEMS**

- In vitro cell assays can be used to study the biological effects of test substances on cell lines and in vivo models.

- In vitro gene assays can be used to study the genetic effects of test substances on gene expression and DNA integrity.

**GC/MSD SYSTEMS**

- Gas chromatography-mass spectrometry (GC/MS) is used for the analysis of volatile and semi-volatile organic compounds.

- GC/MSD systems also use the characterization of metabolites by gas chromatography.

**GC/Q-TOF SYSTEMS**

- High-resolution accurate mass GC/Q-TOF mass spectrometry is used to identify unknown compounds in complex matrices.

- LC/Q-TOF systems are also used for the analysis of polar and semi-polar organic compounds.

**LC/MS SYSTEMS**

- Liquid chromatography-mass spectrometry (LC/MS) is used for the analysis of polar and semi-polar organic compounds.

- LC/MS systems are also used for the analysis of polar and semi-polar organic compounds.

**ICP-MS SYSTEMS**

- Inductively coupled plasma-mass spectrometry (ICP-MS) is used for the analysis of metal ions and metalloids.

- ICP-MS systems are also used for the analysis of metal ions and metalloids.