**SARS-CoV-2 Wastewater Treatment Plant Biosurveillance Workflow**

**WASTEWATER EFFLUENT/SLUDGE**
Collect wastewater or sludge sample

**SAMPLE COLLECTION**
Collect wastewater or sludge sample

**CONCENTRATE AND CLEAN**
Sample preparation

**RNA ISOLATION SAMPLE PREP**
Automated buffer preparation and plate set up on JANUS® G3 Primary Sample Reformatter*

**RNA ISOLATION ON CHEMAGIC™ VIRAL DNA/RNA 300 KIT H96 + CHEMAGIC™ 360 INSTRUMENT**
Automated post extraction RT-PCR set up (RUO Kit)

**PCR SET UP**
Automated Sample Processing with JANUS® G3 PCR Workstation*

**INCUBATION AND READ ON THERMOCYCLER**
Amplify - Real-time PCR – qPCR instrument + SARS-CoV-2 PCR assay

**BENEFITS**
- Enables quick identification of SARS-CoV-2 ‘hot spots’
- High sensitivity with low limits of detection for viral presence, critical in wastewater testing
- Scalable solution to meet evolving requirements
- Confidence in a solution from a partner with expertise in viral detection and environmental testing

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