Danaher Strategic Platforms

Environmental
- Water Quality
  - HACH
  - ChemTreat, Inc.
  - Trojan technologies

Test & Measurement
- Communications
  - FLUKE networks
  - Tektronix communications

Dental
- Dental
  - Kerr

Life Sciences & Diagnostics
- Diagnostics
  - Beckman Coulter
  - Leica Biosystems
  - Radiometer

Industrial Technologies
- Product ID
  - VideoJet
  - ESKO
  - x-rite
  - PANTONE

Gilbarco Veeder-Root
- Gilbarco Veeder-Root
- Navman Wireless
- Teletrac

Instruments
- Instruments
  - FLUKE

Life Sciences
- Life Sciences
  - AB SCIEX

Automation
- Automation
  - Kollmorgen
  - Thomson
WHO IS HACH?

- Global organization with more than 40 years of experience developing products for the beverage industry.

- A complete portfolio of solutions for all applications including water, beer, soft drink, juice and wine.

- Knowledgeable and responsive support teams focused on fast, local service with the global application knowledge to solve even the most difficult problems.

- Focus on providing high quality products which can withstand harsh production environments, supported by local engineers and application specialists to ensure reliability and accuracy.
WATER QUALITY GROUP
WHERE DO WE PLAY

Source Water

Distribution

Drinking Water Plant

Wastewater Collection

Industrial

Wastewater Treatment

Environment

Consumer
WHAT TYPE OF WATER CAN BE TESTED?

- Surface Water
- Groundwater
- Municipal Drinking Water
- Municipal Waste Water/Effluent
- Treated Municipal Water
- De-aerated Process Water
- Boiler Feed Water
- Cooling Water
- Bottled Water
- Other Water
WATER QUALITY: INLINE SENSORS AND PROCESS ANALYZERS

Alkalinity: APA6000

Chlorine: CL17

Conductivity: D3455

Hardness: SP510

Oxygen: LDO Systems

pH: DPD1P1 Sensor

TOC: 3500e

Turbidity: TU5300

Nitrates /Ammonia / Phosphates / COD : Nitratax
WATER QUALITY: TURBIDITY

TURBIDITY METERS

TU5200

360° x 90° Detection Technology
EPA (0 – 700 NTU)
ISO (0 – 1000 NTU)

2100Q
PRODUCT QUALITY: WATER

TURBIDITY METER

EPA (0 – 10 000 NTU)
ISO (0 – 10 000 NTU)

NTU, EBC, ABS,

TL23
Results:

- Alkalinity
- Aluminium
- Ammonia
- Bromine
- Chloride
- Chlorine Dioxide
- Chlorine
- COD
- Fluoride
- Iron
- Nitrate
- Potassium
- Sulfate
- Trihalomethanes
WATER QUALITY: LABORATORY INSTRUMENTS

pH/ mV/ Conductivity/ TDS/ ORP/ ISE/ Salinity/ Resistivity

HQ440D

HQ40D
AUTOMATIC TITRATION

Results:

- Alkalinity
- Acidity
- Chlorine, Free and Total
- Chloride
- Conductivity
- Hardness
- pH
- Sulfur Dioxide, Free and Total
- Total Acid Number
TOTAL ORGANIC CARBON

QBD1200
ENVIRONMENT WQG PORTFOLIO
OVERVIEW 2018

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