



# LABWORKS

waterLIMS™



optimal efficiency in data entry

## Problem

Manual data entry between systems increases labor costs, creates potential for typographical errors, and creates latency between the laboratory data and operational data.

- Water and wastewater treatment plants are continually looking for opportunities to increase operational productivity and data quality.
- Many water and wastewater laboratories maintain a series of spreadsheets to store and report laboratory data.
- Laboratory information that is desired for operation reports has to be manually entered.
- Manual entry of data is labor intensive and creates potential for typographical errors.
- Manual data entry creates a time lag between the laboratory analysis/approval and the availability of the data in operational systems.

## Approach

Purchase a Laboratory Information Management System (LIMS) and implement interfaces with instruments such as PerkinElmer's Chromatography and ICP solutions, or other 3rd party offerings. Also implement interfaces between handheld field devices, GIS applications, Plant Information Management System (PIMS) and Environmental Enforcement Data Management Systems (EEDMS.)

## Recommendations

Select PerkinElmer LABWORKS LIMS to replace legacy laboratory data management systems in order to increase the organization's productivity and data quality

- Assess the current data systems capability in terms of connectivity, productivity and quality.
- Partner with PerkinElmer LABWORKS. With over 20 years of experience providing successful LIMS implementations and has well established partnerships with water/wastewater industry leading operational information systems and project management/project implementation solution providers.
- Implement systems integration to effectively increase organizational productivity and data quality.

Partner with **LABWORKS** to

increase **productivity** and data quality.

## Results

**Increased productivity and quality through seamless systems integration.**

- Integration between LIMS and handheld computers for field work increases the data quality by:
  - Utilizing barcode scanners that validate the operator is at the correct location and is filling the correct sample container
  - Utilizing GPS devices to correctly identify the sample location and ensuring the collector was physically at the sample point
- Integration between LIMS and handheld computers for field work increases productivity by:
  - Automatically creating scheduled sample information, reducing the chance that required samples are not collected
  - Automatically populating field data sheets from LIMS, mostly eliminating the need to transcribe information on a worksheet
  - Automatically transferring field data to the LIMS, decreasing the potential for data error, thus increasing the overall data quality
- Integration between LIMS and GIS applications increases data quality and productivity and helps turn laboratory data into useful information for effective decision making.
- Integration between LIMS and PIMS enables the plant to operate more efficiently with the timely and accurate laboratory data in PIMS.
- Integration between LIMS and EEDMS provides accurate scheduling of required sampling events and increased data quality with the electronic transfer of approved laboratory data back to the EEDMS database.

## Partner Solutions

LABWORKS™ provides software and services to effectively bridge the gap between the laboratory and operations. Partnerships with key industry applications take management of laboratory data to a new level.

- LABWORKS teamed with FlexOPS™ to provide robust field data entry solutions utilizing handheld computers equipped with barcode scanners, GPS and specialized software applications.
- LABWORKS teamed with ArcView™ to provide a seamless link between laboratory data and geographical information database systems.
- LABWORKS teamed with OpsSYS™ to provide integration of laboratory data with plant information management systems.
- LABWORKS teamed with Linko™ to provide integration of laboratory data with environmental enforcement data management systems (aka industrial pre-treatment).
- LABWORKS teamed with Inflection Point Systems to provide successful implementations of LIMS and other water/wastewater plant information systems.

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