

# CASE STUDY:

## TRAFFIC TECH INSTALLS FIRST UNMANNED WEIGHING SYSTEM IN JORDAN USING CARDINAL PRODUCTS



### Wastewater Treatment Plant Improves Overall Weighing Accuracy and Efficiency With the Installation of New Weighbridge and Cardinal Scale Equipment



*“With a peak flow of 840,000 cubic meters every day, the facility treats an average flow of 267,000 cubic meters of wastewater on a daily basis, serving a population of about 2.2 million living in the Greater Amman and Zarqa areas of Jordan.”*

As-Samra Wastewater Treatment Plant (WWTP) is the largest wastewater treatment facility in Jordan. With a peak flow of 840,000 cubic meters every day, the facility treats an average flow of 267,000 cubic meters of wastewater on a daily basis, serving a population of about 2.2 million living in the Greater Amman and Zarqa areas of Jordan. The construction of As-Samra WWTP relieved most parts of Jordan by providing safe reuse of water for irrigation. It also eliminated the odors that were being released from the former water sewage plant.

Samra Wastewater Treatment Plant (WWTP) recently took on an expansion project in order to more precisely and efficiently scale all sludge dried through the dewatering system. The project included the installation of Jordan’s first unmanned weighing system. Cardinal Scale’s authorized dealer, Traffic Tech, assisted with the project using Cardinal Scale’s load cells, two SB500 remote displays, an unattended 825 indicator in conjunction with Traffic Tech’s weighbridge, camera system, printer, and RFID for driver identification.

*Continued on pg. 2*



*“Cardinal Scale’s authorized dealer, Traffic Tech, assisted with the project using Cardinal Scale’s load cells, two SB500 remote displays, an unattended 825 indicator in conjunction with Traffic Tech’s weighbridge, camera system, printer, and RFID for driver identification.”*



# CASE STUDY:

## TRAFFIC TECH INSTALLS FIRST UNMANNED WEIGHING SYSTEM IN JORDAN USING CARDINAL PRODUCTS



### Wastewater Treatment Plant Improves Overall Weighing Accuracy and Efficiency With the Installation of New Weighbridge and Cardinal Scale Equipment



Traffic Tech was also able to assist with the installation of UPS online 1KVA, a battery backup system which will prevent potential power outages. Also significantly improving the overall process, team members are now able to monitor the weighbridge and trucks using cameras and Cardinal's WinDDE 2.0 Dynamic Data Exchange program. The weight and status of the weight indicators is made readily available to spreadsheets, databases, and industrial control applications by means of Dynamic Data Exchange.

With the new technology and efficiency capabilities provided with the help of Cardinal Scale and Traffic Tech, Samra Plant O&M Co. will continue to successfully provide clean water to the Greater Amman and Zarqa areas for many years to come.



Continued from pg. 1

The vehicle weighbridge became operational September 9, 2015. Approximately 30-40 trucks are weighed daily. With the purchase and installation of the new equipment, Samra Plant O&M Co. is excited to report that the Cardinal digital display is accurate and easy to read. Process Manager Mr. Mohammed reports, "The accurate readings of sludge volume enable us to achieve good accuracy in plant mass balance calculations." This capability is a great asset to Samra and, in turn, the surrounding community.

The indicator is now located in a suitable place for the drivers to easily extract necessary data. "The drivers and operators find the weighbridge user friendly with clear signs of entering and leaving. The smooth weighing process gives us more accurate and controlled data," reported Production Manager Mr. Morad.

*"The vehicle weighbridge became operational September 9, 2015. Approximately 30-40 trucks are weighed daily."*

*"Also significantly improving the overall process, team members are now able to monitor the weighbridge and trucks using cameras and Cardinal's WinDDE 2.0 Dynamic Data Exchange program."*

