



FAST RESPONSE LEAK DETECTION SYSTEM MONITORS 24/7 PUMP STATION

Project:	Jeddah Storm Water Drainage (JSWD)
Location:	Jeddah, Saudi Arabia
Requirement:	Immediate responding, reliable and durable liquid sensing monitoring system
Results:	PermAlert® PAL-AT liquid leak detection system installed for entire pump station
Completion Date:	January 2021

OVERVIEW

Our client came to PermAlert with a unique situation; their city is inundated with heavy rainfall on a regular basis, and flooding is a major concern. There was a massive effort underway to prepare a strategy to control and redirect storm water. The city had a plan to overhaul the current drainage system by updating and enlarging the pump stations. The client required a low maintenance and extremely reliable liquid leak detection system to monitor these new stations.

CLIENT REQUIREMENTS

The location of our client's pump station is near the Red Sea; due to high tides the risk of flooding is of great concern. Should flooding occur the results would be devastating. Forced closing of the pump station would cause the entire city to flood and the domino effects of that would be catastrophic. The U.S. suffered a similar situation with hurricane Katrina and the devastation of New Orleans which has yet to fully recover. Our client required a leak detection system that acted immediately, was totally dependable, and would monitor the facility 24/7. In addition, this pump station is in a remote area and our client required a system that is extremely low maintenance.

THE PERMALERT SOLUTION

As PermAlert Systems are manufactured and rigorously tested in our ISO 9001 certified US facility, we were able to provide an effective and economical solution by installing the PAL-AT leak detection system with AGW-Gold sensing cable. With superior technology and unparalleled reputation for reliability we can ensure a fast response time, rugged durability, and minimal maintenance, making it the perfect 24/7 monitoring solution for our client.



AGW-Gold Sensing Cable

The AGW-Gold cable was installed inside of the containment pipe at the 6 o'clock position. AGW-Gold is a fast reaction, quick dry and chemically resistant sensing cable. The cable is designed with no conductive surfaces allowing the system not to alarm due to contaminants that would alarm systems that use a "shorting technology".

PAL-AT Control Panel

The PAL-AT control panel was installed in an equipment room. The panel monitors each chemical with a separate circuit which assists the operators to determine if pumps or valves need to be adjusted. With its "Sonar/Radar" sensing technology the system is able to monitor with condensation or other liquids on the cable for growing leaks. If the leak grows in the same area of the containment pipe it will alarm again providing a multilevel alarm ability in identifying leaks.

PermAlert Leak Detection
Intelligent · Accurate · Reliable



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05/28/2021