



OmniSite Products Serve as a Diverse Solution for the Town of Plainfield



A Case Study By

BBC
Pump and Equipment Co., Inc.

&

OmniSite

The Overview

The town of Plainfield, Indiana is a rapidly growing community responsible for treating wastewater for its 30,000+ residents plus schools and businesses in the area. Prior to becoming an OmniSite customer, Plainfield used a SCADA system for alarm monitoring that required expensive installation costs on top of the already pricey hardware. The system was complex and demanded significant training and expert upkeep. On top of that, the SCADA system was costly to scale alongside the growth of the community as phone lines needed to be laid at each lift station to transmit alarms through traditional phone dialers. The SCADA system became less and less reliable when compared to newer cellular service options. When OmniSite sales rep, BBC Pump and Equipment, introduced Plainfield to a more affordable, reliable, easy-to-use, and easily scalable solution, the town began to make the transition to OmniSite equipment in 2009.

Since then, Plainfield's trust in OmniSite products has grown and the town has found diverse ways to utilize the technology. In fact, the town's positive experience with OmniSite led them to explore using an OmniSite device to solve a unique problem at one of the town's parks.

The Problem

Plainfield needed to monitor the water levels of a section of White Lick Creek that runs through a highly trafficked park in the town. It is necessary to monitor the creek level because when a rain event causes the water levels to rise too high, it presents a safety hazard for children and their families using the walkway running alongside the creek. If the levels reach a certain height, the town must close the walkway. Before finding a solution, a Plainfield town worker was required to physically visit the creek to determine if there was a high-level. This consumed time, led to frustration, and was ultimately not an effective way to keep park visitors safe.



The Challenges

Tired of the inconvenience of physically checking on the water levels and the unpredictability of Indiana weather patterns, Plainfield began its search for a solution. After explaining their problem and needs to the US Geological Survey for guidance, the options proposed were more elaborate than what the town ultimately needed – or could reasonably afford. They were presented with an approximately \$20,000 price tag to install a radar system that measures creek depth, water flow velocity, along with other data points. The custom software necessary for alerts and reporting made up a significant portion of that price. It was clear that the software suggested was created with the intent of collecting geological data for research purposes as opposed to providing a simple alert that would tell the town when it was unsafe to be on the walkway near the creek.



The Solution

Knowing the success and positive relationship Plainfield experienced after many years of interaction with both OmniSite and BBC Pump and Equipment, the town approached their representative at BBC Pump to see if alternative ideas could be put into action. The experts at BBC Pump provided Plainfield with affordable equipment and assisted with installation and programming of a cost-effective solution to monitor the creek levels. By using digital inputs on an OmniSite XR50 to interconnect a sonar unit installed on the bridge, the XR50 was calibrated to report on three water levels – Level 1 (Still Safe), Level 2 (Unsafe), and Level 3 (Highly Unsafe). Using OmniSite's GuardDog software, that is included free with every OmniSite device, the town of Plainfield logs in to the web or mobile app to check on or acknowledge alarms. Plus, they receive alerts via text, phone, and email at the three pre-calibrated water levels so they know when to send a worker out to close the walkway.

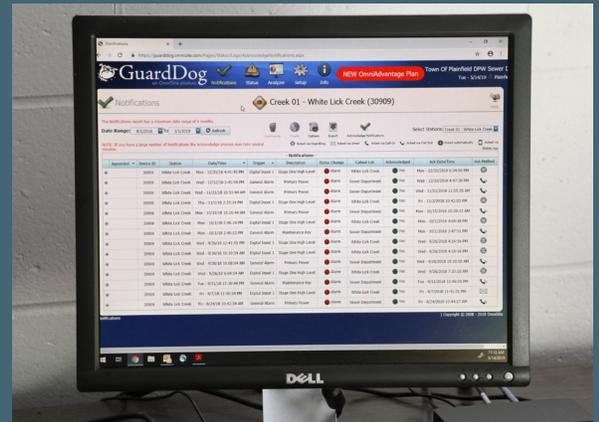
OmniSite XR50



Sonar Unit

The Results

Today, Plainfield has been able to successfully monitor the White Lick Creek levels for several years in a way that is both cost- and time-saving. In total, Plainfield has 43 active OmniSite devices and that number will grow as the community continues to grow. In addition to monitoring the White Lick Creek level with an XR50, they use 35 additional XR50 units and 7 Crystal Ball units to monitor lift stations and other critical equipment including Blowers, Screw Pumps, Effluent Flow Meter, and Combination Sewer Overflow (CSO).



Over

19,000

remote notifications since 2009, including confirmations of proper equipment function.



approximately

\$17,000

saved in hardware, software, and installation plus more in annual fees.



COUNTLESS

man hours saved with the ability to remotely monitor.

ABOUT THE XR50

The OmniSite XR50 is perfect for monitoring digital alarm inputs and analyzing trends at a lift station, including pump trends. Its ability to record pump runtimes, GPMs, pump cycles, and more make it a complete solution for monitoring both critical and remote applications.

CUSTOMIZEABLE I/O

Ten Universal Digital Inputs accept 12 VAC/VDC – 120 VAC/VDC, allowing you to wire up floats and sensors directly to your monitoring device.



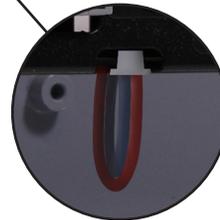
EASY NAVIGATION

Backlit LCD screen and four (4) universal navigation buttons make programming your device simple. Plus our Smart Key technology keeps your device secure.



BACKUP BATTERIES

On-board 12 VDC power supply means your device will continue to monitor and send alerts even if the main power is down.



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