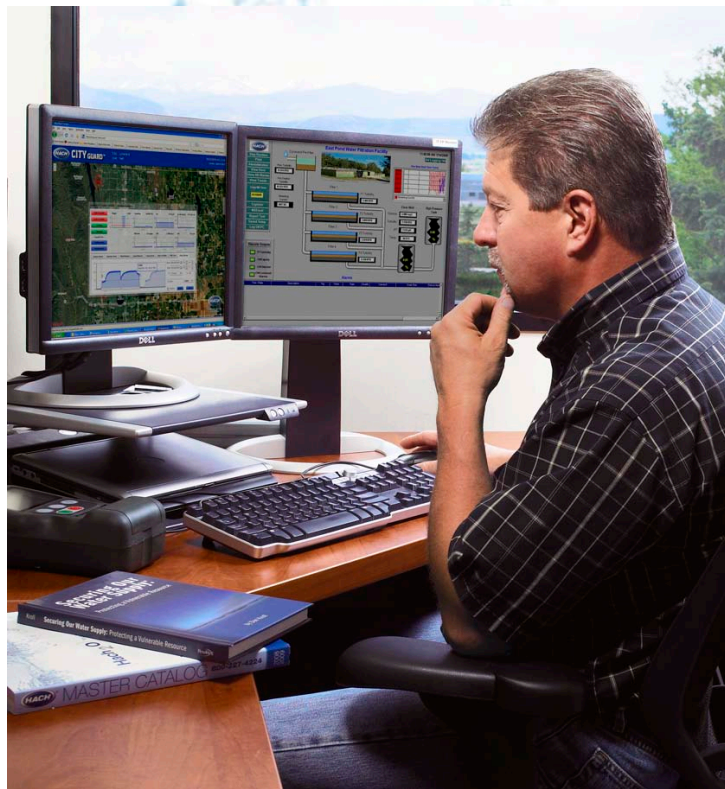
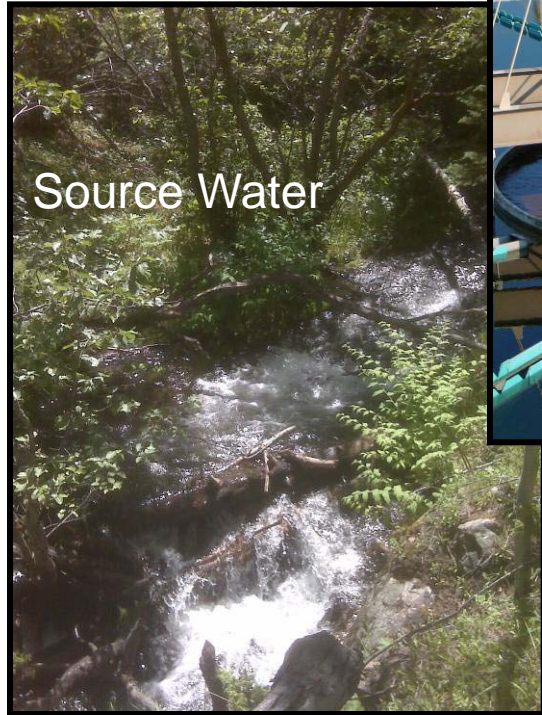


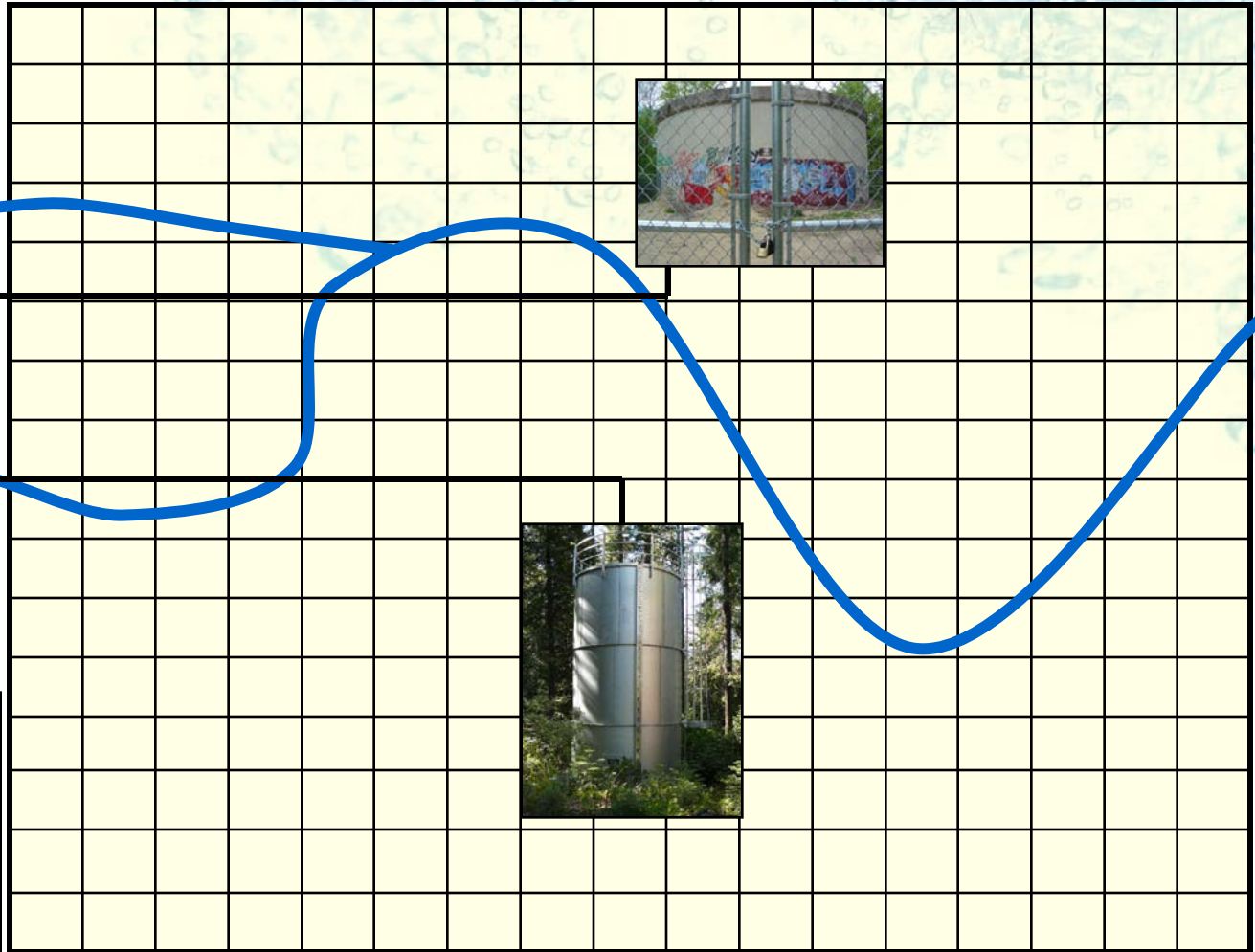
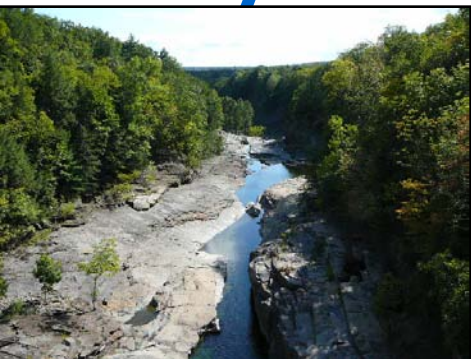
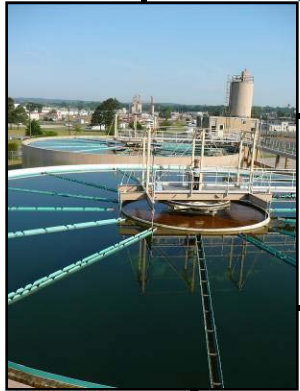
# CityGuard™ - Source Water and Distribution System Monitoring Systems at Your Fingertips



# Monitoring Your Water is a System Approach



# The Best Approach is a Network



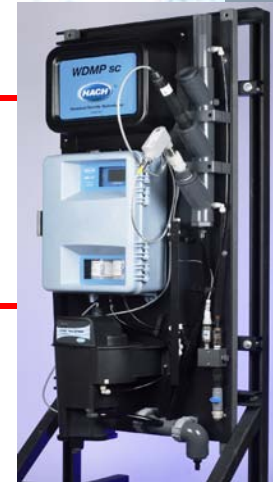
# For Source Water



# GuardianBlue™ Early Warning System: For Monitoring Water Security and Quality in your Distribution System



# CityGuard Ties it All Together



# What is CityGuard?

- A virtual command center- view the status of multiple sites simultaneously – at a glance
- An easy way to drill down into your remote instrumentation from your desk, home or anywhere with an internet connection
- A piece of software that resides on your city server and Event Monitor

# Benefits of CityGuard

- View the status of multiple monitoring points at a glance.
- Have bi-directional control of multiple Event Monitors from any location with Internet access.
- Save time and costs associated with travel to remote monitoring sites.
- Drill down, view, and analyze water quality data from multiple monitoring points from a single location.
- Maximize the value of monitoring and water security programs.

## Should an event occur,

- *the information you obtain from CityGuard will help you.....*
- Visualize the affected area
- Accelerate public health response
- Minimize the impact to human populations
- Reduce damage to infrastructure
- Reduce the cost of remediation
- Restore water service more quickly

http://cityguard.hach.com/ - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://cityguard.hach.com/

**CITY GUARD™** City: Loveland User: 05/11/2009 01:43:27 Version: Beta 0.1b15

Map Satellite Hybrid

Red indicates alarm state

Sites equipped with Event Monitors

**Hach Company**  
System Running  
2009/05/11 14:42:08

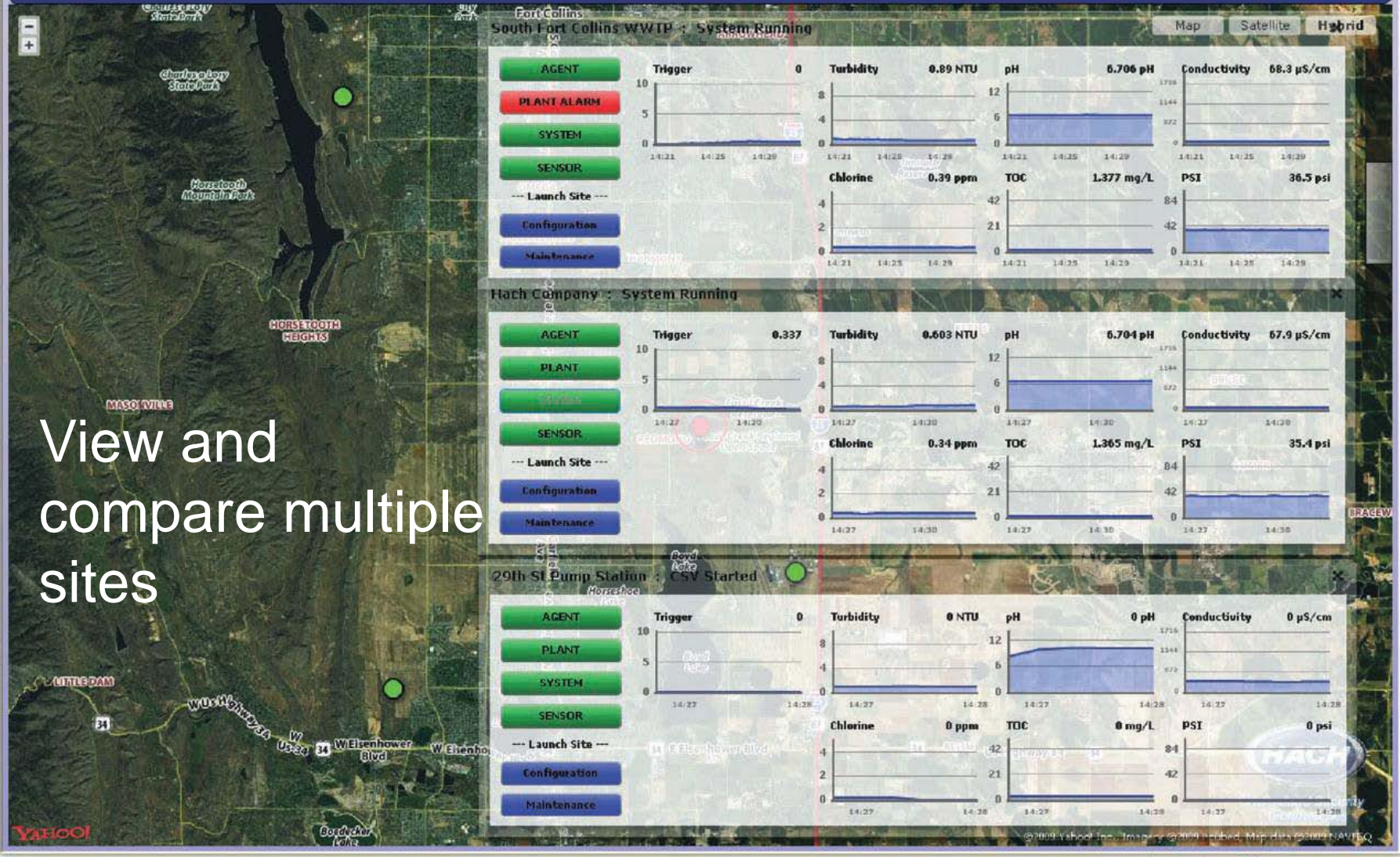
- AGENT
- PLANT
- SYSTEM
- SENSOR

**HACH**  
Homeland Security Technologies

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Done Local intranet 1:43 PM

start Inbox - Microsoft Out... Adobe Acrobat Stand... Microsoft Excel Images\_CityGuard.d... http://cityguard.hach.com/



View and compare multiple sites

http://cityguard.hach.com/ - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://cityguard.hach.com/ Go Links

**CITY GUARD™** City: Loveland User: 05/11/2009 01:47:44 Version: Beta 0.1b15

Map Satellite Hybrid

South Fort Collins WWTP : System Running

AGENT Trigger 0.113 Turbidity 0.664 NTU pH 6.71 pH Conductivity 67.9  $\mu$ S/cm

PLANT ALARM

SYSTEM

SENSOR

Launch Site ---

Configuration

Maintenance

Chlorine 0.37 ppm TOC 1.39 mg/L PSI 33.3 psi

Sensor Errors System Errors Plant Events Agent Events Sensor Data User Activity File Save Plant Library

Plant Events 15 of 1290 Events

From Date/Time	To Date/Time	Priority	Name	# Errors
05-08-2009 14:56:26	05-08-2009 14:56:26	ALARM		1
05-08-2009 14:06:14	05-08-2009 14:10:14	ALARM	test2	17
05-08-2009 14:05:59	05-08-2009 14:05:59	ALARM	UNKNOWN0005	1
05-08-2009 14:05:44	05-08-2009 14:05:44	ALARM	UNKNOWN0004	1

1,713 NTU Mon May 11, 02:45 PM

Adobe Acrobat Stand... Microsoft Excel Images\_CityGuard.d... http://cityguard.hach... Local intranet 1:47 PM

Mouse over the sensor graph to note the time and value of individual sensor measurement.

Tabs in the lower portion of the pop up allow user access to all the normal features of the Event Monitor.

http://cityguard.hach.com/ - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites

Address http://cityguard.hach.com/ Go Links

**CITY GUARD™** City: Loveland User: 05/11/2009 01:34:29 Version: Beta 0.1b15

Fort Collins South Fort Collins WWTP - System Running

Map Satellite Hybrid

AGENT Trigger 0 Turbidity 0.89 NTU pH 6.706 pH Conductivity 68.3 µS/cm

PLANT ALARM

SYSTEM

SENSOR

--- Launch Site ---

Configuration Maintenance

Sensor Errors System Errors Plant Events Agent Events Sensor Data User Activity File Save Plant Library

Export File Prefix:

Select Log Files to Export

Sensor Error Log 2009-10-12 10:10:10  Sensor Data Log 2009-10-12 10:10:10  Start from last export point

System Error Log 2009-10-12 10:10:10  System Activity Log 2009-10-12 10:10:10  Specify date range Start Date  End Date

Plant Event Log 2009-10-12 10:10:10  Agent Event Log 2009-10-12 10:10:10

Reset last download point Export

YAHOO! HACH Homeland Security Technologies

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Download and back-up data. Click on "Export".

http://cityguard.hach.com:8001/ - Microsoft Internet Explorer

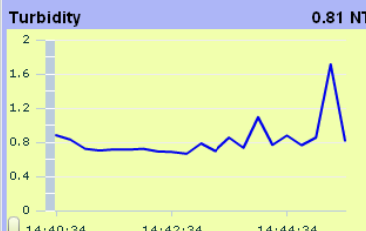
File Edit View Favorites Tools Help

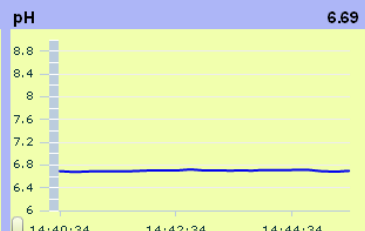
Address http://cityguard.hach.com:8001/

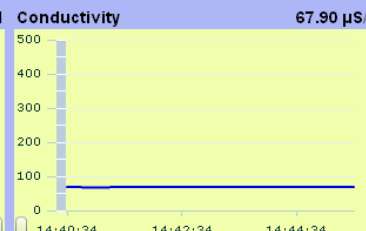
**HACH** **GUARDIANBLUE™**  
US patent # 699898

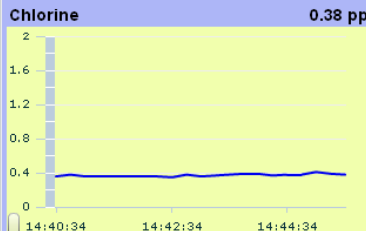
Site: Run CSV  
User: hach  
Role: Superintendent

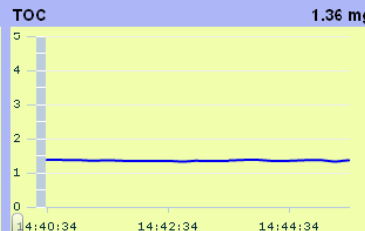
05-11-2009 14:45:48  
Version: 1.5.0  
logout

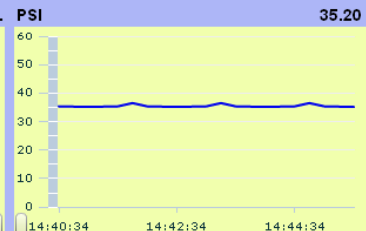
**Turbidity** 0.81 NTU  


**pH** 6.69 pH  


**Conductivity** 67.90 µS/cm  


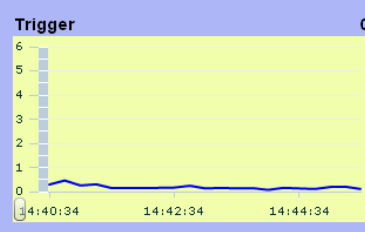
**Chlorine** 0.38 ppm  


**TOC** 1.36 mg/L  


**PSI** 35.20 psi  


Graphs

Configuration  
Maintenance

**Trigger** 0.11  


AGENT  
SYSTEM  
SENSOR

Done Local intranet

start | Inbox - Microsoft Out... | Adobe Acrobat Stand... | Microsoft Excel | Images\_CityGuard.d... | http://cityguard.hach... | http://cityguard.hach... | 1:46 PM



View the Event Monitor Screen as though you were standing in front of it.

# Questions?





# CityGuard Demonstration