W. L. GORE & ASSOCIATES, INC.  
ELECTRONIC PRODUCTS FACILITY  
LANDENBERG, PA

KEY PARAMETERS
- Type of Facility – High Value Electronic Products Manufacturing Facility
- Function – Improve Manufacturing Environment
- Area – 300,000 square feet
- Project Completed – August, 2012

Challenge: IAQ

Unacceptable levels of airborne particulates from nearby agricultural operations were found to be present in outdoor makeup air brought in to replace significant amounts of air vented from exhaust hoods used in the manufacturing process.

In addition, Gore had concerns about the frequency of filter change-outs necessary to maintain the desired level of indoor air quality.

Solution: Eight (8) Dynamic V8 Air Cleaning Systems and forty-four (44) Dynamic Versacomb™ activated carbon matrix panels were installed in a large custom air handling unit to filter incoming outdoor air and recirculated indoor air.

Results: Post-installation continuous air testing indicates a significant improvement in the level of contaminants. In addition, the filter service life is expected to exceed two (2) years which eliminated the concerns about frequency of filter change-outs.

W. L. Gore & Associates, well known for its GORE-TEX® fabric, focuses its efforts in four main areas: electronics, fabrics, industrial and medical products. The Electronic Products Division (EPD) incorporates the unique properties of ePTFE (expanded polytetrafluoroethylene) to develop and manufacture cables and assemblies that provide electrical and mechanical integrity in demanding environments such as semiconductor manufacturing and aerospace applications.

Team: Engineering – Dynamic Air Quality Solutions  
Project Mgmt – Seiberlich Energy Services  
Facility Mgmt -- In-house Facilities Team

Mechanical Systems: HVAC – Custom Air Handling Units

www.DynamicAQS.com

Graph shows post-installation gas phase contaminants from incoming outdoor air (blue line) and recirculated indoor air (pink line) measured over a 5-hour period.