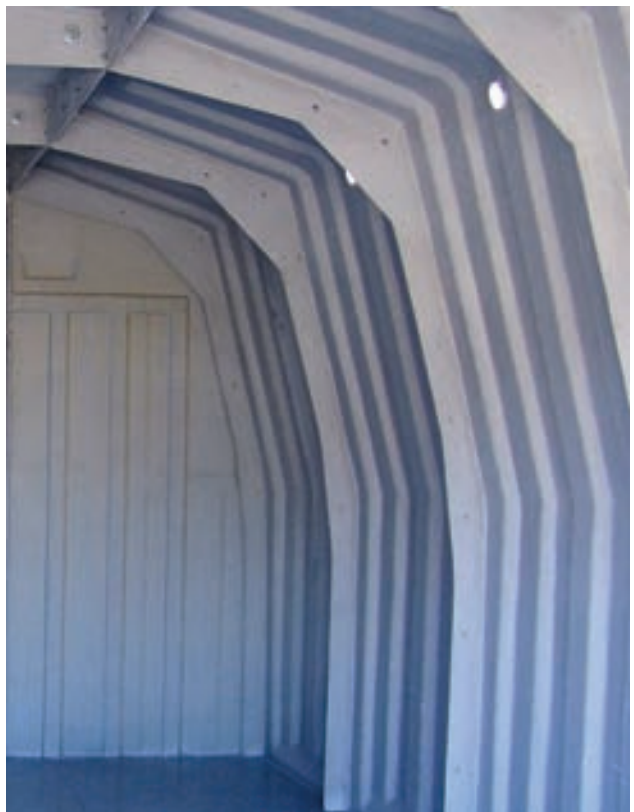

By Stephanie Oakley

Safe, Scent-Free Containment

A tough fiberglass enclosure solves a Canadian municipality's septage receiving station needs

The fiberglass enclosure installed at the Septage & Hauled Sewage Receiving Facility in the city of Orillia, Ontario, Canada, was the perfect solution to a highly corrosive environment.

The addition of a Muffin Monster machine, incorporated to aid in breaking down the heavy particles in the sewage brought in by the nearby communities, prompted the installation of a fiberglass building; the Monster had to be enclosed, and there was simply no room in the current building.

Handling hauled sewage is a key concern for many rural cities, the city of Orillia being no exception. Like many rural cities, its surrounding townships are not on a municipal wastewater treatment system. Hauled sewage from those neighboring areas, therefore, is unloaded into the city treatment system.

The city of Orillia was having problems with its system being shocked when the contract haulers brought in the sewage. A local engineer was called in to assess the situation, and it was decided that a Muffin Monster machine would be added to ensure that the hauled sewage was broken down before entering the city's wastewater treatment system. As there was no room for this rather large machine to fit inside the already standing structure, a new building was required.

A cost-effective option was required, as the city was under tight budget restrictions. The engineer looked to RM Products, Ltd., a company that manufactures fiberglass enclosures, which ultimately met all the requirements.

Site Solution

The highly malodorous and corrosive environment in which the Muffin Monster was to be stored was dependent on a building that would safely contain the extensive odor and not deteriorate in the presence of the corrosive gasses. The RM Products fiberglass enclosure presented the most successful solution to this problem.

The uniquely designed panels made up the building's walls and frame, allowing for minimal building components. The fiberglass structure had to meet all of the wind and snow loads relative to the area, which is subject to large amounts of snow in the winter months. Furthermore, the enclosure is pre-engineered and strength-tested to withstand wind speeds of 150 mph and snow loads of 100 lb/sq ft, thus ensuring that the structure would maintain high strength and durability for the harsh environment in which the septage receiving station was located.

RM Products factory-assembled this spill containment building, making it ready to use upon delivery. As needs change, the containment unit can be easily relocated by a forklift or tilt-and-load truck.

The manufacturer worked closely with the engineer who handled the Orillia septage receiving station project to ensure that all requirements were met. Because of RM Products' personal service and ability to problem-solve, the septage receiving station is a resounding success and a model for future projects of its kind.

Containment Considerations

The protection of the environment is a key issue when storing hazardous materials or containing highly offensive odor from the air we breathe. Properly containing chemicals from seeping into the ground or air is a necessary step for any business in ensuring that products and equipment are stored safely.

The innovative fiberglass design lends itself to not only enclosing equipment but also containing chemicals from the ground. Custom containment floor design provides a continuous fiberglass material from floor to wall to ceiling. The chemical resistance of fiberglass is an ideal match for any containment type of application because it will not rot, rust or corrode in the presence of even the most corrosive chemicals.

Spill-containment buildings may require a grated floor placed on top of the fiberglass pan, which allows spillage to flow under and remain below the walking space in the enclosure. Steel or fiberglass grating can be supplied to ensure there is separation from the chemicals below. WWD

Stephanie Oakley is business development coordinator at RM Products, Ltd. Oakley can be reached at 800.363.0867 or by e-mail at stephanie@rmproducts.on.ca.

For more information, write in 1110 on this issue's Reader Service Card.

WEBresources >>>

Related search terms from www.waterinfolink.com: enclosure, containment, buildings, fiberglass

For more information related to this article, visit www.wwdmag.com/lm.cfm/wd050910

Flange-Lock

Introducing the new addition to Smith-Blair's joint restraint product line.

·Fits 14"-24" nominal pipe sizes.
·Allows the pipe to completely pass through for easier installation.
·Smaller and larger sizes available, along with customized body lengths and transitions.

Flanged x MJ Coupling Adapter with Cam-Lock™ Joint Restraint

Ask for the Original Smith-Blair BLUE!

ACE 2009 - Booth #1833
Phone: 870-773-5127- 800-643-9705
Fax: 870-773-5212 - 800-648-6792
smith-blair.com

write in 749

HammerTek Smart Elbows® save you money.

BUILT TO ENDURE 100% AMERICAN MADE

Lots of things can save you money, but HammerTek's Smart Elbow doesn't stop there - it eliminates maintenance and replacement costs, reduces your plant's downtime, and protects the integrity of your product. Don't take our word for it – visit www.hammertek.com to view case studies and videos of how companies have saved money, time, and product.

See why the Smart Elbow® is built to endure.

HammerTek CORPORATION

800-505-9665 • 717-898-7665 • www.hammertek.com

write in 750