

MRF of the Month

Fauquier County Environmental Services Construction and Demolition Recycling Facility

Located just outside Warrenton, Virginia in the heart of Fauquier County – named for an 18th century lieutenant governor of Old Dominion, who allegedly won the land in a poker game – the Fauquier County Environmental Services Construction and Demolition Recycling Facility opened its doors in July 2007 as far less of a gamble.

Beginning in 2001, the county began using an unlined cell with excess capacity solely for construction and demolition (C&D) debris, ultimately mining



that cell for recoverable materials and sorting it at its C&D MRF.

That facility is fed through a county-run drop-off program for both residents and commercial customers. The C&D material is run through the plant's two processing lines, with materials being sorted both by hand and via a cross-belt overhead magnet and a star screen.

Depending on in-flow, one to three months of the year, facility operators continue to mine the C&D cell, using the plant to process the material for recovery, a process that has the added benefit of extending the life of the landfill.

The plant was manufactured by Sherbrooke OEM and includes such equipment as a General Kinematics finger screen, managing material using a Kobelco excavator, two Hyundai rubber-tire loaders and other gear.

According to the facility managers, recovery of materials from new construction "ranges from 50-60 percent and recovery from demolition projects varies – up to approximately 50 percent, depending on



Technical Specifications

Fauquier County Environmental Services Construction and Demolition Recycling Facility

Location:

Warrenton, Virginia

Start-up date:

July 2007

Number of processing lines:

Two

Throughput:

Daily capacity of 200-250 tons

Tons of material processed in 2013:

21,200

Residue rate:

40-50 percent

the type and quality of delivered materials.”

Dust control – an issue at all C&D processing facilities – was cited as the number one issue for the facility, with problems stemming from fines that make up approximately 30 percent of processed materials the other. A daily air compressor program has been instituted to help with the fines issue and a misting system is used to control dust for staff.

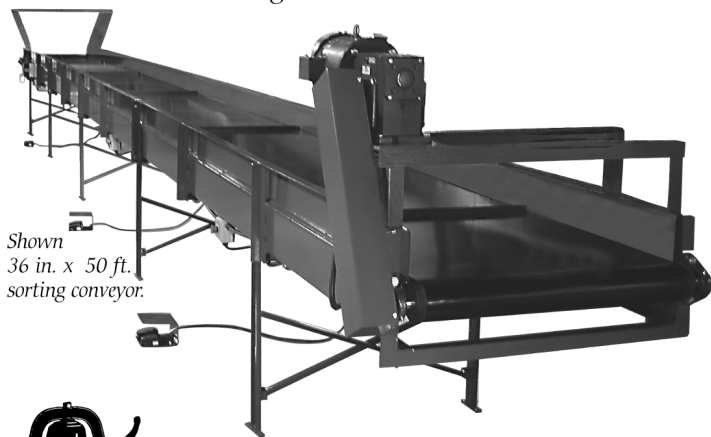
The Fauquier County Environmental Services Construction and Demolition Recycling Facility has 18 total employees – an excavator operator, a loader operator, one load inspector, one platform supervisor, two roll-off drivers and a dozen sorters, working from 7:00 a.m. to 3:00 p.m., one to three days a week, with the other days spent at the area’s traditional municipal recycling MRF.



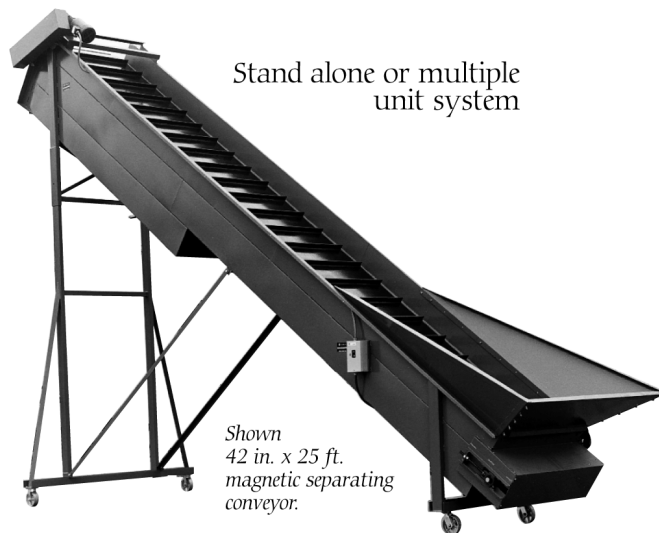
Custom Conveyors

Designed and built for:

- sorting and separating
- material handling
- distribution system
- baler feed
- unloading and transfer



Shown
36 in. x 50 ft.
sorting conveyor.



Stand alone or multiple
unit system

Shown
42 in. x 25 ft.
magnetic separating
conveyor.

C.S. Bell conveyors are custom built to sizes required for normal or specialized operations.

Call for design and construction solutions to your conveying or material handling needs.

Crushing equipment for glass and aluminum cans.



C.S. BELL CO.

P.O. Box 291 • Tiffin, OH 44883 • 888-958-6381 • 419-448-1203 fax
e-mail: sales@csbellco.com • <http://www.csbellco.com>