

MRF of the Month

Recology CleanScapes Materials Recovery Facility

Located just south from where Seattle's Mariners swing their bats and the world-champion Seahawks roam the gridiron, the recently opened Recology CleanScapes Materials Recovery Facility sorts Emerald City-area residents' recyclables. The building that houses the new MRF used to be the warehouse for Washington's state-run liquor stores, previous to a ballot initiative that ended the Evergreen State's de facto monopoly on tipping. The facility which used to store bottles is now sorting bottles – and other materials – at a rate of 180 tons per day.



The state-of-the-art, 75,000-square-foot MRF takes single-stream recyclables from eight Puget Sound-area curbside collection programs serving more than 55,000 households. The facility also handles single-stream-collected commercial materials from a variety of sources, including the Seattle-Tacoma International Airport.

"This facility will play an important role in helping the region meet its environmental goals," said Dan Bridges, general manager of Recology CleanScapes, in a press release on the occasion of the facility's grand opening in 2014.

The MRF was designed, built and installed by Eugene, Oregon's Bulk Handling Systems and includes such advanced technologies as the firm's Tri-Disc screen, NIHOT air separation and NRT optical sorting technology. The facility has the latest technology incorporated into one processing line, which includes a pre-sort station, five quality control stations, two paper screens, two optical sorters, a container line and an eddy current separator.

The facility in 2014 had an annual capacity of 90,000 tons of recyclable materials, and it plans to increase that capacity to 125,000 tons in 2015.

About 90 percent of the material the operation processes is fiber. Some of the bigger issues that tax the system: food waste and plastic bags. The bags pose difficulties for the facility's fiber screens, but even with that



Technical Specifications

Recology CleanScapes Materials Recovery Facility

Location:
Seattle

Start-up date:
June 1, 2014

Number of processing lines:
One

Throughput:
180 tons per day

Throughput capacity in 2015:
125,000 tons

Residue rate:
8 percent



challenge, the facility reports an average 92 percent uptime.

"We spend very little time clearing jams or conducting unexpected maintenance," according to the company.

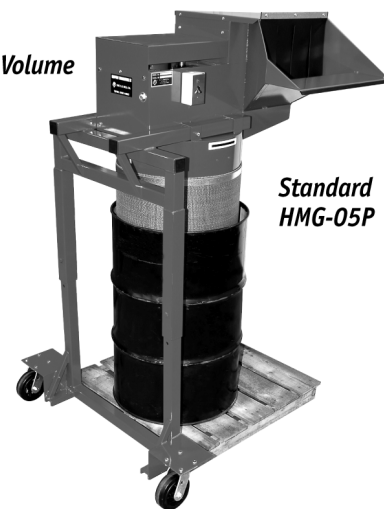
The Recology CleanScapes Materials Recovery Facility has 34 employees including sort line staff, scale operators, forklift operators, maintenance staff and management working one shift, five days per week.

Know of a North American MRF that you feel *Resource Recycling* readers should learn about? Email your recommendation, with high-resolution pictures, to news@resource-recycling.com, and your facility may just be highlighted in a future MRF of the Month column.

Glass Crushers

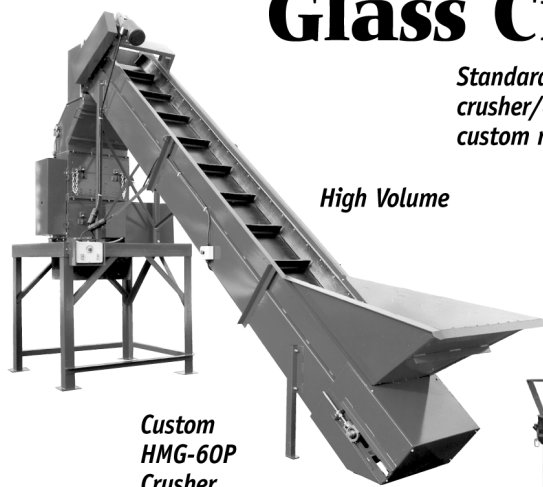
Standard Units, combination type crusher/conveyor, modified and custom manufactured.

Low Volume



**Standard
HMG-05P**

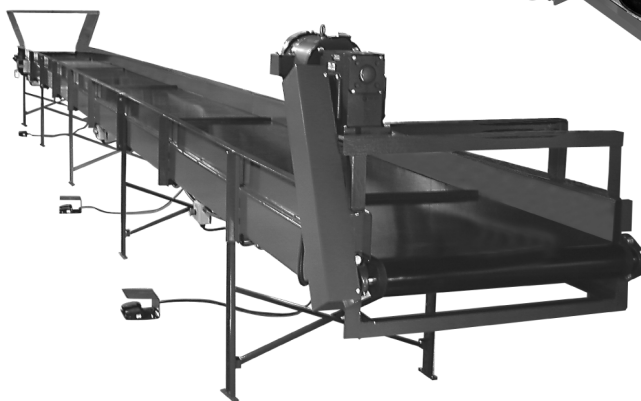
High Volume



**Custom
HMG-60P
Crusher**

Conveyors

Custom sizes, horizontal, sorting, magnetic, inclined, material handling



**Custom
36 in. x 50 ft.
sorting conveyor**

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