



## **MAJOR SYSTEM UPGRADE IN CALIFORNIA: MACHINEX REINFORCES ITS PRESENCE ON THE WEST COAST**

**May 26, 2022** – Machinex is pleased to announce the recent start-up of the major upgrade in the Single-Stream Municipal Recycling Facility of West County Resource Recovery, located in Richmond, California. This project is the result of an efficient cooperation between Machinex and its client, Republic Services, to modernize the existing facility for additional sorting capacity. This upgrade was specifically designed to face the challenges of the existing building while completely upgrading the system.

This plant already had an older system designed and installed by another equipment vendor. The customer was running approximately 15 TPH and some of the older equipment was no longer working and, therefore, had been taken offline. Machinex was asked to upgrade the system in order to increase processing capability without adding to the current sorter count and to eliminate rubber disc screens. Indeed, new features of the system include a triple-deck MACH OCC Screen with a fines screen underneath to remove the system fines early in the process. The new OCC screen features improved disc spacing and larger shafts to reduce daily cleaning. Two MACH ballistic separators were installed to handle the primary and secondary (finishing) 2D/3D separation and, since they have no rubber discs or shafts, they help to reduce downtime and overall maintenance costs. Machinex was chosen for this upgrade thanks to its capacity to provide and deliver a turnkey solution that increases tonnage while having the same number of sorters.

This major upgrade required some additional automation to meet this challenge. A MACH Hyspec® dual-eject optical sorter has been incorporated to remove both PET (#1) and HDPE (#2) at the start of the container line. A new magnet and eddy current separator have also been installed for ferrous and non-ferrous recovery. Features of this system make it reliable, efficient, flexible, with a limited footprint. The new MRF will be able to process more recyclables with the capacity to sort 22 to 24 tons per hour.

Design challenges included working with the existing infeed pit along with putting together a design that utilized the existing baler and storage bunker setup. “We needed two ballistics in order to achieve the processing capacity goals set forth by the client. We utilized their existing drum feeder for the system infeed and also re-used many of the existing bunkers at the front end of the system such as the pre-sort bunkers and commodity bunkers since those were all live bottom bunkers and already in place. We did have to add one new walking floor bunker for the ferrous metals as they did not have enough bunkers to accommodate all of the recovered materials.” Said Rusty Angel, a Regional Sales Manager for Machinex Technologies Inc.

Machinex worked alongside Republic to bring its expertise with creative design for retrofits. Customer requirements were to select a partner that would be able to guide them through this major system upgrade, along with providing them a maintenance-friendly system that could increase the recovery of recyclable material.

### **About Machinex**

Machinex became the first company in Canada to design machinery for material recycling facilities in the '80s. The company immediately established itself as a leader in designing profitable and high-quality recycling sorting systems. Today, Machinex is still a world leader in the industry, developing cutting edge sorting, waste management, and recycling technology. Over the years, their experts have designed and installed several turnkey facilities in partnership with leading MRFs in Canada, the United States, Europe, and Oceania. For more information, visit the Machinex web site [www.machinextechnologies.com](http://www.machinextechnologies.com).

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