

APPENDIX D

System Waste Flows

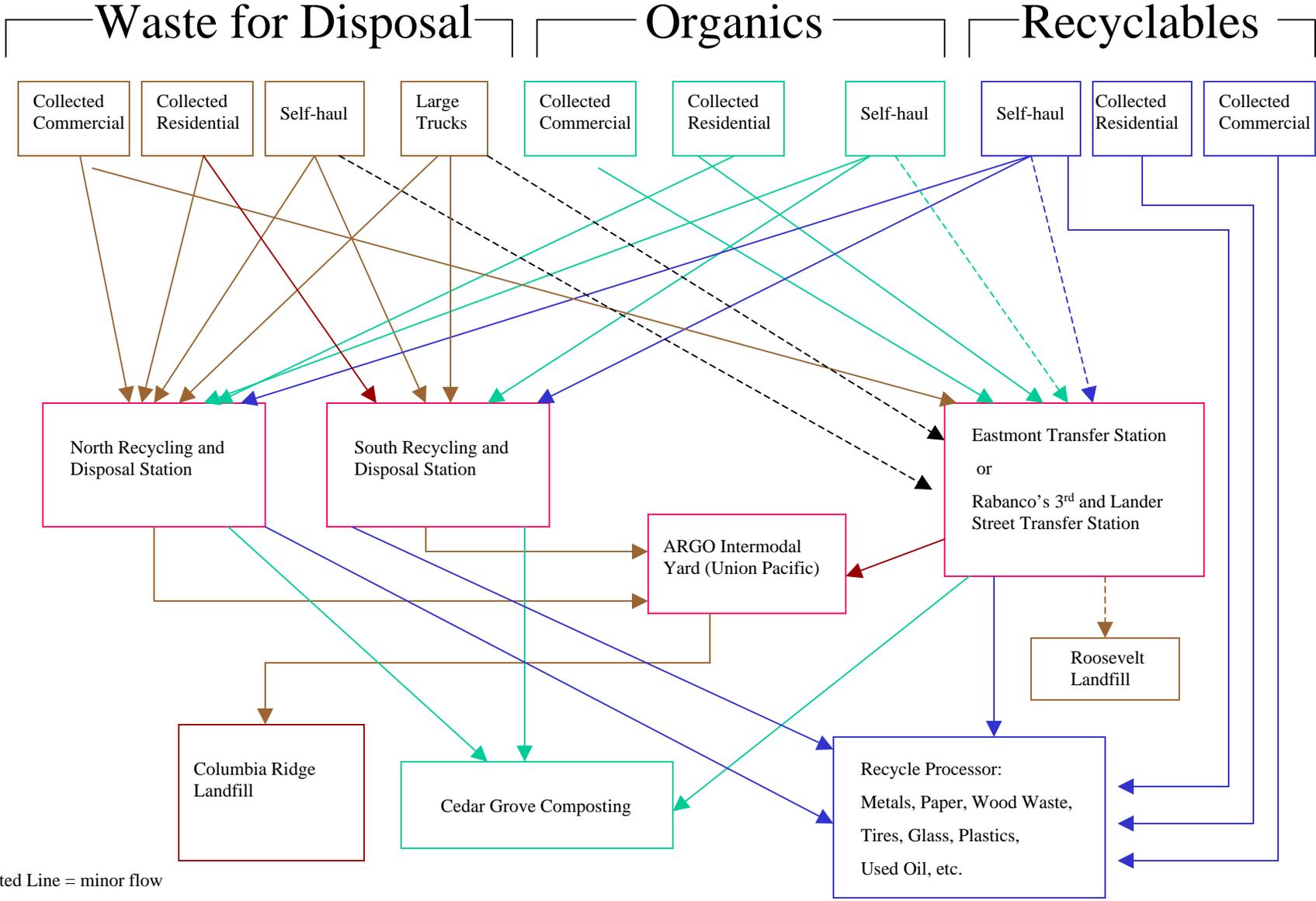
SEATTLE'S WASTESTREAM FLOW

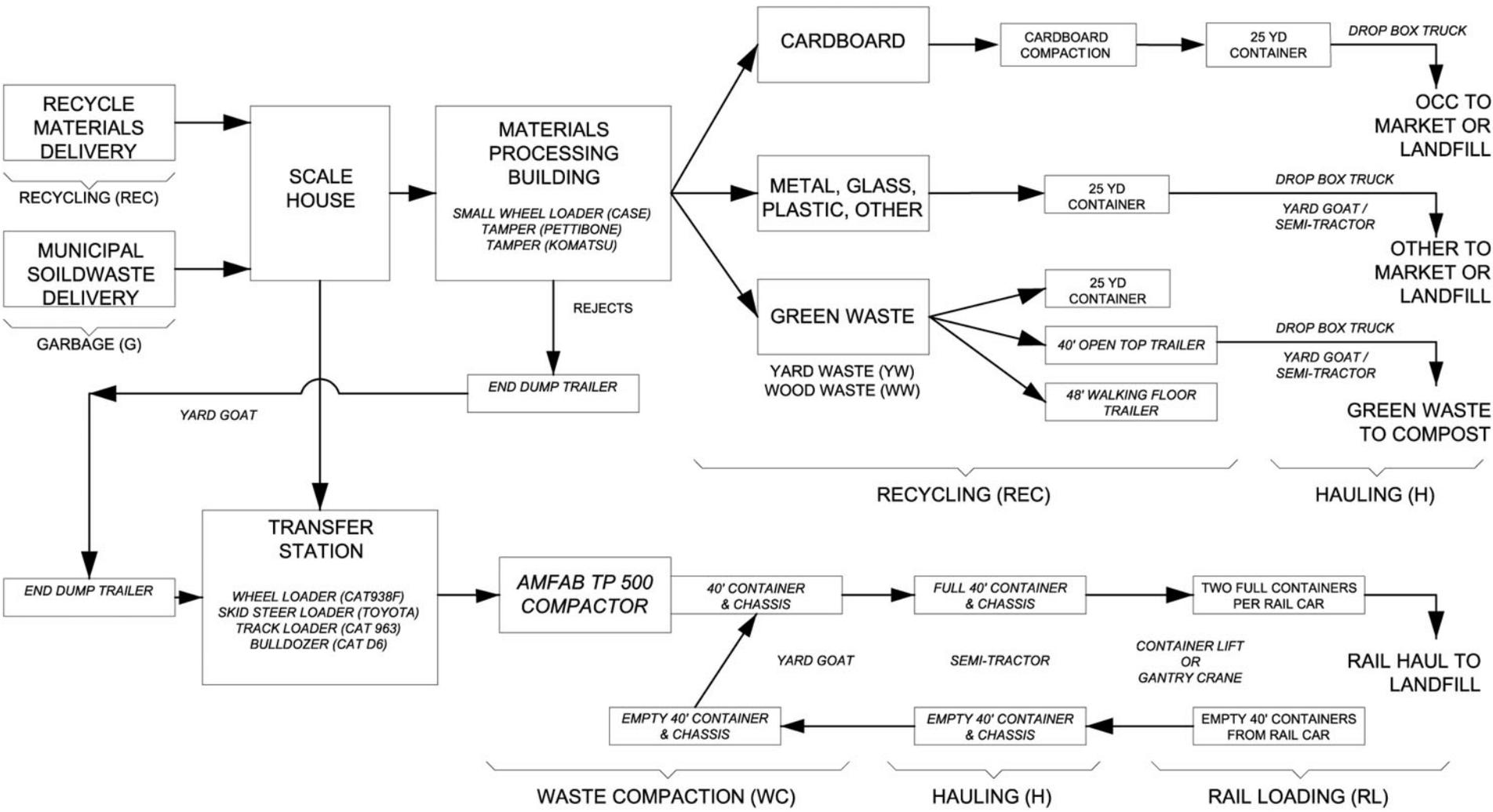
Wastestream	Collection	Transfer/Process	Disposal/End Use
Residential Refuse	<p>City contracts with Waste Management Inc. (WMI) and Allied (dba Rabanco) for curbside collection. Refuse collection trucks are owned by the collection companies. Use outside of Seattle is prohibited.</p> <p>The contracted companies also collect bulky items for a an additional fee upon request.</p>	<p>Collected refuse is hauled to either the city owned North Recycling and Disposal Station (NRDS) or South Recycling and Disposal Station (SRDS). The waste is compacted into an intermodal container and hauled to the Argo Intermodal Transfer Facility by City employees.</p>	<p>Intermodal containers are loaded onto a train at the Argo Intermodal Yard by Union Pacific employees. Waste is disposed at the Columbia Ridge Landfill owned by Waste Management Inc.</p>
Commercial Refuse	<p>City contracts with WMI & Rabanco for collection. Dumpsters are rented to customers by collection companies.</p> <p>The contracted companies also collect bulky items for an additional fee upon request.</p>	<p>In 2002, at least to 10% is hauled to NRDS and SRDS by Rabanco and WMI and the other 90% is hauled to either the Eastmont Transfer Station or the Rabanco 3rd and Lander Street Transfer Station for compaction into intermodal containers. Each year an additional 5% will be taken to NRDS & SRDS up to 40%. Intermodal containers from NRDS and SRDS are trucked to the Argo Intermodal Facility by City employees. Intermodal containers from the two private transfer stations are also trucked to the Argo yard by each company.</p>	<p>Intermodal containers are loaded onto a train at the Argo Intermodal Yard by Union Pacific employees. Waste is disposed at the Columbia Ridge Landfill owned by Waste Management Inc.</p>
<p>Self-haul municipal solid waste (MSW), construction and demolition (C&D) waste, recyclables, yard waste, and household hazardous waste (HHW).</p>	<p>Individuals and small businesses, University of Washington, Seattle Housing Authority, and others collect and haul their own waste.</p>	<p>Waste and recyclables are deposited at NRDS or SRDS. City employees compact the waste into intermodal containers and truck them to the Argo Intermodal Facility. Recyclables are transported by City employees to various recycling facilities. Yard waste is transported by City employees to Cedar Grove Composting Facility. The City owns and operates a HHW facility in north Seattle and at SRDS.</p>	<p>Intermodal containers are loaded onto a train at the Argo Intermodal Yard by Union Pacific employees. Waste is disposed at the Columbia Ridge Landfill owned by Waste Management Inc.</p> <p>Yard waste is composted at Cedar Grove Composting Facility. Recyclables are taken to a variety of end users. HHW is recycled or shipped to a permitted disposal facility.</p>
Yard waste	<p>City contracts with WMI and Rabanco to collect yard waste at the curbside</p>	<p>Yard waste collected by Rabanco is consolidated at their transfer facility at</p>	<p>Yard waste from NRDS and SRDS is transported to Cedar Grove Com-</p>

SEATTLE'S WASTESTREAM FLOW

Wastestream	Collection	Transfer/Process	Disposal/End Use
Recyclables	<p>from residential customers. Residential and commercial customers may contract directly with whomever they please for the collection of yard waste for composting.</p> <p>The City designates what waste types it will collect for recycling and contracts with WMI and Rabanco for the curbside collection of residential and small business recyclables. Commercial recyclables are not defined as waste by federal law and are collected by a variety of companies rather than by the City.</p>	<p>3rd Avenue South & South Lander Street and yard waste collected by WMI is deposited at NRDS and SRDS.</p> <p>Recyclables collected by WMI and Rabanco are delivered to Rabanco's material recovery facility (MRF) at 3rd and Lander Street. Recyclables collected from commercial waste generators is processed at a variety of facilities.</p>	<p>posting Facility by City employees using City trucks. Rabanco also transports yard waste from their transfer station to Cedar Grove Composting Facility.</p> <p>Upgraded recyclables from the MRF are hauled to a variety of facilities that utilize the materials. Recyclables from commercial generators goes to a variety of recycling and disposal facilities.</p>
Construction, Demolition, and Land-clearing (CDL) waste	<p>CDL is collected by WMI and Rabanco under City contract. CDL is also collected by a variety of other companies that generate the waste during contracted projects.</p>	<p>Waste is transferred to a variety of processing and disposal facilities. The City currently does not exercise their right to direct the disposal of this wastestream.</p>	<p>Waste goes to a variety of landfills. Processed materials are recycled. Some wood waste is burned as hog fuel.</p>
Wastewater solids	<p>Sludge, grit, screenings, and skimmings are collected at the Westpoint Wastewater Treatment Plant by King County.</p>	<p>The sludge and skimmings are anaerobically digested to produce methane gas and biosolids. The gas is used to power pumps and the biosolids are dewatered and transported to rural areas.</p>	<p>Biosolids are landspread. Skimmings and grit are trucked by King County to Cedar Hills Landfill.</p>
Special waste such as asbestos, contaminated soil, and other waste that requires special handling or disposal procedures	<p>The generator is responsible for delivery of waste to a permitted facility. WMI and Rabanco accept non-hazardous contaminated soil and other types of special waste. The City contract with WMI requires them to have a special waste receiving facility.</p>	<p>Special wastes are processed according to regulatory requirements; for example, biohazardous waste and foreign waste are incinerated or sterilized and asbestos waste is packaged and labeled according to specific federal regulations.</p>	<p>Disposed or recycled according to specific federal, state, and local regulations.</p>
Industrial waste	<p>Most industrial waste is managed at the generating source</p>	<p>Most industrial waste is recycled or disposed of by the generator</p>	<p>Recycled or disposed at a variety of facilities</p>

City of Seattle's Current Municipal Solid Waste Flow





CITY OF SEATTLE TRANSFER STATION

PROCESS BLOCK FLOW DIAGRAM
MUNICIPAL SOLID WASTE AND RECYCLING