

**TABLE 4c
CSO VOLUME CAPTURE TABLE - FUTURE CONDITIONS (Treatment at Metro and RTF'S
(September 2001)**

<u>Sewer Service Area/ Proposed Facilities</u>	Average Annual Combined Sewage Volume Conveyed to Metro for Treatment <u>(Million Gallons)</u>	Average Annual Additional Combined Sewage Volume Eliminated or Captured for Treatment at Metro or a RTF <u>(Million Gallons)</u>	Total Annual Combined Sewage Volume Eliminated or Captured for Treatment at Metro or a RTF <u>(Million Gallons)</u>	Total Annual Combined Sewage Volume Generated by the Metro Combined Sewer Service Area <u>(Million Gallons)</u>	Percent Capture for Treatment at Metro and the RTF's <u>[5=3/4]</u>
	[1]	[2]	[3=1+2]	[4]	
Hiawatha RTF	116	24	140	140	100%
Harbor Brook In-Water System	638	143	781	810	96%
EBSS Upgrade	0	220	220	289	76%
Teall Ave. FCF	77	0	77	84	92%
Midland RTF	728	322	1,050	1,050	100%
Clinton RTF	720	142	862	862	100%
Franklin FCF	683	0	683	766	89%
Maltbie FCF	69	0	69	90	77%
Sewer Separation Areas	95	33	128	128	100%
Total	3,126	884	4,010	4,219	95%

Notes:

- 1) The capture volumes for the Hiawatha RTF also reflect the additional flow conveyed to Metro by the Kirkpatrick Street Pump Station Upgrade.
- 2) The basis of design for each regional facility is the 1-year, 2-hour duration design storm using 15-minute rainfall intervals, with the exception of the Harbor Brook In-Water System which is based upon 1/2 of the 1-year, 2-hour design storm using 15-minute intervals. The EBSS is based upon the 90 percentile storm.
- 3) During dry weather conditions, there is no flow from the EBSS to the Main Interceptor Sewer. Capture volumes reflect re-activation of the EBSS.
- 4) The capture volumes for Midland RTF includes the Newell Street flows.
- 5) The capture volumes reflect the separation of 212.8 acres of combined sewer service area, as listed in the ACJ.
- 6) The estimated capture volumes provided in this table are based upon a SWMM model for the combined sewer system that was validated and calibrated using data collected during an extensive field monitoring program.
- 7) As the CSO evaluation report is intended to be a "living document", the capture volumes provided in this table will be update to reflect the current information available at the time of each facility plan or design update.
- 8) Percent Capture refers to combined sewage captured for treatment at Metro and elimination of combined sewage overflows for separation areas.
- 9) Treatment at Metro is equivalent to a minimum of primary treatment followed by disinfection, while treatment at the RTF's consists of preliminary treatment followed by disinfection to meet water quality compliance.