

APPENDIX 4
SEWPCC FACT SHEET

CITY OF WINNIPEG
SOUTH END WATER POLLUTION CONTROL CENTRE

FACT SHEET - EXISTING PLANT

<u>Process</u>	<u>No. of Units/Capacity</u>	<u>Remarks</u>
1. Main Pumps	4 vertical centrifugal Firm Capacity - 122 ML/d	variable speed units 2 units 22 - 68 ML/d 2 units 9 - 27 ML/d
2. Screening/Grit Removal	3 bar screens 2 parallel aerated grit tanks	Enclosed process Exhaust to 45m stack Grit/Screenings to Landfill.
3. Primary Clarifiers	2 clarifiers	rectangular Overflow rate at peak flow is 90 m ³ /m ² /day
4. Secondary Reactors	2 parallel reactors 3 stages per train	"UNOX" Pure oxygen system 1.4 hours detention at average flow SRT - 2 to 10 days
5. Oxygen Supply	UNOX PSA Plant 9.1 tonne/day	Liquid oxygen backup
6. Secondary Clarifiers	2 clarifiers - enclosed 1760 m ² 3 variable speed (VFD) return sludge pumps	
7. Sludge Storage	2 storage tanks 385 m ³	Sludge is hauled to NEWPCC for treatment.