



DESIGN FLOWS

- AADF 95 ML/d
- PWWF 420 ML/d

INFLUENT PUMPS

- 4 PUMPS TOTAL
- 1 PUMP 140 ML/d
- 2 PUMPS 114 ML/d
- 1 PUMP 80 ML/d
- 1 GRIT PUMP

SCREENING

SCREENS

- 3 SCREENS
- 140 ML/d EACH
- OPENING SIZE: 6 mm PERFORATED PLATE OR 4.5 mm BAR

SCREENINGS CONVEYANCE SYSTEM

- AVG. 2.3 m³/d AT 20% TS
- PEAK 23 m³/d AT 20% TS
- SLUICED SCREENING PUMPS TBD

SCREENINGS

- AVG. TBD
- PEAK TBD

COMPACTORS

- TBD

GRIT REMOVAL

GRIT CHAMBERS

- 2 SQUARE AERATED CHAMBERS
- 135 ML/d EACH

CLASSIFIERS

- 2 VORTEX CHAMBERS
- 110 ML/d EACH

DEWATERED GRIT

- AVG 2 m³/d AT 85% TS
- PEAK 30 m³/d AT 85% TS

GRIT PUMPS

- TBD

PRIMARY CLARIFICATION

PI FLOWS

- AADF 95 ML/d
- PWWF 150 ML/d

PI LOADS

BOD kg/d	AADF mm	TBD	TBD
TBD	TBD	TBD	TBD
TSS kg/d	TBD	TBD	TBD

PRIMARY CLARIFIERS

- TOTAL AREA 1,937 m²
- 2 TANKS 51.8m X 9.1m
- 1 TANK 51.8m X 19.2m
- 4.3 m SWD
- SOR AVG 49 m/d
- SOR PEAK 78 m/d

PRIMARY SCUM

- TBD

PRIMARY SLUDGE PUMPS

- TBD

HIGH RATE CLARIFICATION

HRC FLOWS

- MIN 20 ML/d
- MAX 270 ML/d

HRC LOADS

BOD kg/d	AADF mm	TBD	TBD
TBD	TBD	TBD	TBD
TSS kg/d	TBD	TBD	TBD

HIGH RATE CLARIFIERS

- 2 TANKS
- DIMENSIONS TBD
- SOR PEAK TBD

HRC RECIRC PUMPS

- TBD

HRC SLUDGE PUMPS

- TBD

SECONDARY CLARIFICATION

MIXED LIQUOR

- MLSS 3,000 mg/L
- SVI 155 mL/g
- SLR AVG 3.2 kg/m²/h
- SLR PEAK 5.6 kg/m²/h

SECONDARY CLARIFIERS

- TOTAL AREA 6,684 m²
- 2 TANKS 33.5 m DIA.
- 3 TANKS 45.7 m DIA.
- 4.6 m SWD
- SOR AVG 14.2 m/d
- SOR PEAK 33.7 m/d

SECONDARY SCUM

- TBD

RAS PUMPS

- TBD

DISINFECTION

UV DESIGN

- 225 ML/d
- TSS MAX TBD
- E.COLI 200 MPN/100mL
- UVT MIN TBD

UV DISINFECTION

- TBD

WET WEATHER DISINFECTION

- TBD

OUTFALL

- TBD



				ENGINEER'S SEAL	
SNC-LAVALIN DESIGNED BY: J.K. CHECKED BY: J.C. DRAWN BY: J.C. APPROVED BY: J.K. SCALE: NTS ISSUED FOR CONSTRUCTION DATE: 2013/07/23 BY: [] DATE: []		PRELIMINARY NOT FOR CONSTRUCTION		THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT	
A ISSUED FOR REVIEW NO. REVISIONS		07/2013 DATE		JC JC DESIGN CHECK	
CONSULTANT NO.: 474248		CITY DRAWING NUMBER 1-0102-PPFD-A001		SHEET REV. SIZE 001 PA A1	