

Appendix A15.4 Assumed Activity for the Proposed Wastewater Treatment Plant Operational Phase

Equipment Item	Number of Units	Use %	Operational Hours	Lw dB(A)
Coarse Screens Building N façade	NA	25	00.00-24.00	61/m2
Coarse Screens Building S façade	NA	25	00.00-24.00	61/m2
Coarse Screens Building E façade	NA	25	00.00-24.00	61/m2
Coarse Screens Building W façade	NA	25	00.00-24.00	61/m2
Grit Detritor, mixer unit & pump	3	100	00.00-24.00	70
Grit Detritor, mixer unit & pump	3	25	00.00-24.00	86
Grit Classifiers	3	25	00.00-24.00	70
Fine Screens Building N façade	NA	25	00.00-24.00	56/m2
Fine Screens Building S façade	NA	25	00.00-24.00	56/m2
Fine Screens Building E façade	NA	25	00.00-24.00	56/m2
Fine Screens Building W façade	NA	25	00.00-24.00	56/m2
Scraper Bridges with Scum boards and trap	4	100	00.00-24.00	66
Primary De-sludge Pumps	4	25	00.00-24.00	78
Primary Tank Scum Pumps	1	25	00.00-24.00	78
Screw pumps	4	100	00.00-24.00	86
Anoxic Zone Mixers	4	100	00.00-24.00	66
Aeration Blower Building N façade	NA	100	00.00-24.00	61/m2
Aeration Blower Building S façade	NA	100	00.00-24.00	61/m2
Aeration Blower Building E façade	NA	100	00.00-24.00	61/m2
Aeration Blower Building W façade	NA	100	00.00-24.00	61/m2

Equipment Item	Number of Units	Use %	Operational Hours	Lw dB(A)
Full Bridge Scraper Bridges	8	100	00.00-24.00	66
RAS Recirc Pumps	2	100	00.00-24.00	82
SAS Pumps	1	25	00.00-24.00	78
Primary Sludge Mixer pumps	1	100	00.00-24.00	72
Sludge Tank Feed Pumps	1	25	08.00-24.00	78
Wasted SAS storage tank mixer	1	100	00.00-24.00	72
Mixed SAS storage tank mixer	1	100	00.00-24.00	72
Mixed SAS Transfer Pumps	2	25	08.00-24.00	78
2no SAS Centrifuge (D/S)	1	100	08.00-24.00	96
Raw Sludge & Thickening Building N façade	NA	100	00.00-24.00	33/m2
Raw Sludge & Thickening Building S façade	NA	100	00.00-24.00	33/m2
Raw Sludge & Thickening Building E façade	NA	100	00.00-24.00	33/m2
Raw Sludge & Thickening Building W façade	NA	100	00.00-24.00	33/m2
Thickened SAS transfer pumps	1	25	08.00-24.00	78
Odour extract Fan and exhaust stack	6	100	00.00-24.00	81
Mixed Sludge Tank Mixer Pumps	1	100	00.00-24.00	78
Mixed Sludge Centrifuge Feed Pumps	2	25	08.00-24.00	78
Mixed Sludge Centrifuge	2	100	08.00-24.00	96
Sludge Buffer tanks feed Pumps	1	25	08.00-24.00	78
Liquor Return Pumps	1	25	08.00-24.00	78
THP feed pumps	2	100	08.00-20.00	78

Equipment Item	Number of Units	Use %	Operational Hours	Lw dB(A)
THP unit	2	100	08.00-24.00	78
Digester feed pumps	1	100	08.00-24.00	78
Digesters Mixer Systems	6	100	00.00-24.00	81
Gas Holders - air blowers	1	100	00.00-24.00	81
Gas Boosters	1	25	08.00-02.00	86
Flare Stack	1	25	00.00-24.00	81
CHP unit	1	100	00.00-24.00	97
Composite Boiler	1	100	00.00-24.00	86
Siloxane removal	1	25	08.00-10.00	86
Digested sludge transfer pumps	2	25	08.00-24.00	78
Digested Sludge Dewatering Feed Pump	1	25	08.00-24.00	78
Sludge Dewatering Building N façade	NA	100	00.00-24.00	61/m2
Sludge Dewatering Building S façade	NA	100	00.00-24.00	61/m2
Sludge Dewatering Building E façade	NA	100	00.00-24.00	61/m2
Sludge Dewatering Building W façade	NA	100	00.00-24.00	61/m2
Sludge Screen	1	25	08.00-20.00	72
Imported Primary sludge pump	1	25	08.00-20.00	78
Imported Primary sludge Tank Mixer	1	100	00.00-24.00	76
Imported SAS sludge pumps	1	25	08.00-20.00	78
Imported SAS sludge Tank Mixer	1	100	00.00-24.00	76
Final Effluent Pumping Station N façade	NA	25	00.00-24.00	3/m2
Final Effluent Pumping Station S façade	NA	25	00.00-24.00	3/m2
Final Effluent Pumping Station E façade	NA	25	00.00-24.00	3/m2

Equipment Item	Number of Units	Use %	Operational Hours	Lw dB(A)
Final Effluent Pumping Station W façade	NA	25	00.00-24.00	3/m2