



References WWTP



Website: www.ecoranga.com

E-mail: ecoranga@ecoranga.com

Tel: +370 676 88888

Bugeniai city, Lithuania



Average daily flow (m3/d)	47
Maximum daily flow (m3/d)	70
Maximum hourly flow (m3/h)	12
Sewage pumping station at the inlet	
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	
Chemical dosing station	
Flotator	
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Plinksiai city, Lithuania



Average daily flow (m3/d)	60
Maximum daily flow (m3/d)	90
Maximum hourly flow (m3/h)	15
Sewage pumping station at the inlet	
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	
Chemical dosing station	
Flotator	
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Clonacool city, Ireland



Average daily flow (m3/d)	80
Maximum daily flow (m3/d)	105
Maximum hourly flow (m3/h)	28
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	
Grease tank	
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	
Chemical dosing station	
Flotator	
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Endrejavas city, Lithuania



Average daily flow (m3/d)	85
Maximum daily flow (m3/d)	110
Maximum hourly flow (m3/h)	22
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	
Grease tank	
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Zemaiciu Kalvarija city, Lithuania



Average daily flow (m3/d)	140
Maximum daily flow (m3/d)	170
Maximum hourly flow (m3/h)	25
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	+
Grease tank	
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	
Chemical dosing station	
Flotator	
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Zagare city, Lithuania



Average daily flow (m3/d)	192
Maximum daily flow (m3/d)	375
Maximum hourly flow (m3/h)	48
Sewage pumping station at the inlet	+
Local sewage pumping station	+
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	+
Grease tank	+
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	+
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	+
Rotary sieve (for sediment screening)	
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	+
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Kvedarna city, Lithuania



Average daily flow (m3/d)	240
Maximum daily flow (m3/d)	450
Maximum hourly flow (m3/h)	45
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	+
Grease tank	+
Buffer tank	+
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	+
Rotary sieve (for sediment screening)	
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	+
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Vezaiciai city, Lithuania



Average daily flow (m3/d)	270
Maximum daily flow (m3/d)	430
Maximum hourly flow (m3/h)	60
Sewage pumping station at the inlet	+
Local sewage pumping station	+
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	+
Grease tank	+
Buffer tank	+
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	+
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	+
Rotary sieve (for sediment screening)	
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	+
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Neman city, Russia



Average daily flow (m3/d)	4177
Maximum daily flow (m3/d)	5748
Maximum hourly flow (m3/h)	350
Sewage pumping station at the inlet	+
Local sewage pumping station	+
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	
Grease tank	
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	+
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	+
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	+
Sand filters (in-depth treatment)	+
Treated WW processing using UV lamps	+
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Elektrenai - Vievis city, Lithuania



Average daily flow (m3/d)	4730
Maximum daily flow (m3/d)	5203
Maximum hourly flow (m3/h)	434
Sewage pumping station at the inlet	+
Local sewage pumping station	+
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	+
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	+
Rotary sieve (for sediment screening)	
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	+
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Rokiskis city, Lithuania



Average daily flow (m3/d)	5500
Maximum daily flow (m3/d)	12045
Maximum hourly flow (m3/h)	583
Sewage pumping station at the inlet	+
Local sewage pumping station	+
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	+
Grease tank	+
Buffer tank	+
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	+
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Kedainiai city, Lithuania



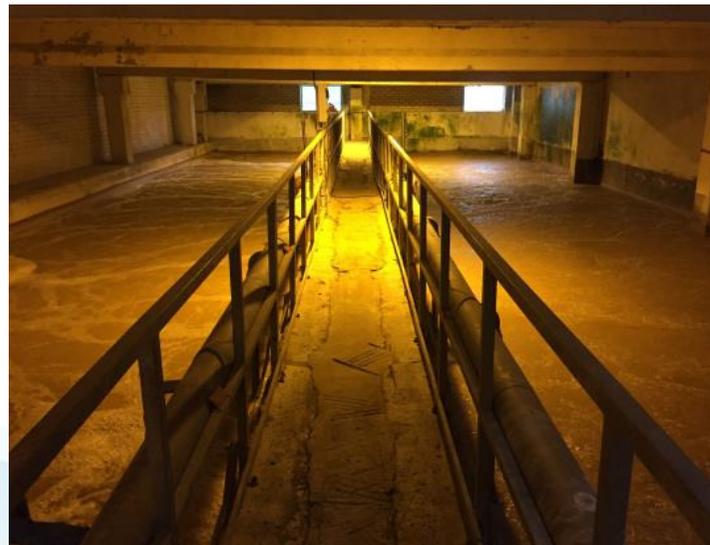
Average daily flow (m3/d)	8200
Maximum daily flow (m3/d)	24354
Maximum hourly flow (m3/h)	1076
Sewage pumping station at the inlet	+
Local sewage pumping station	+
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	+
Grease tank	+
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	+
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	+
Rotary sieve (for sediment screening)	
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

Telsiai city, Lithuania



Average daily flow (m3/d)	10551
Maximum daily flow (m3/d)	24000
Maximum hourly flow (m3/h)	1400
Sewage pumping station at the inlet	+
Local sewage pumping station	+
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	+
Imported wastewater reception tank	+
Grease tank	+
Buffer tank	
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	+
Rack (for sediment screening)	+
Sand catcher (for sand screening)	+
Grease catcher (for grease screening)	+
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “Kalvarijos pieno cežas” milk, Lithuania



Average daily flow (m3/d)	900
Maximum daily flow (m3/d)	990
Maximum hourly flow (m3/h)	70
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	+
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	+
Secondary settling tank	+
Excess sludge accumulation tank	
Treated wastewater mineralisation tank	
Sample collection tank	+
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	
Chemical dosing station	+
Flotator	
Air blowers	+
Tertiary (advanced) treatment	+
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “Viciunai-RUS” fish factory, Russia



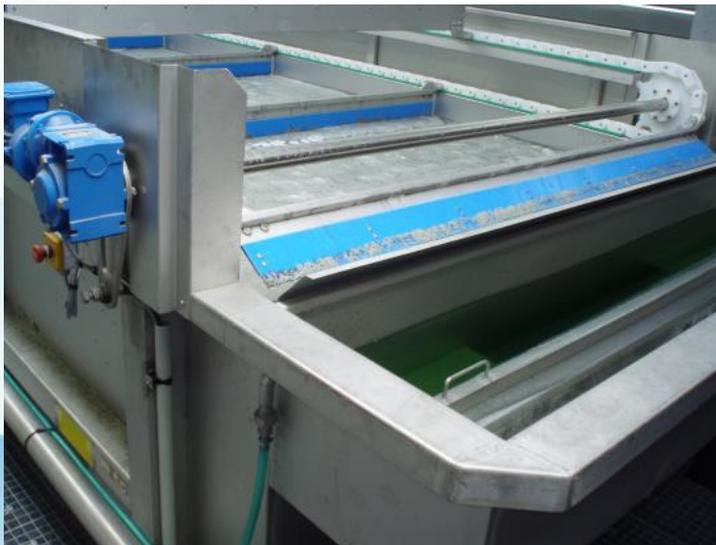
Average daily flow (m3/d)	2400
Maximum daily flow (m3/d)	3800
Maximum hourly flow (m3/h)	180
Sewage pumping station at the inlet	+
Local sewage pumping station	+
Pumping station of the outlet	+
Wastewater reception tank	
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	
Secondary settling tank	
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	+
Air blowers	+
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	+
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “Agaras” meat factory, Lithuania



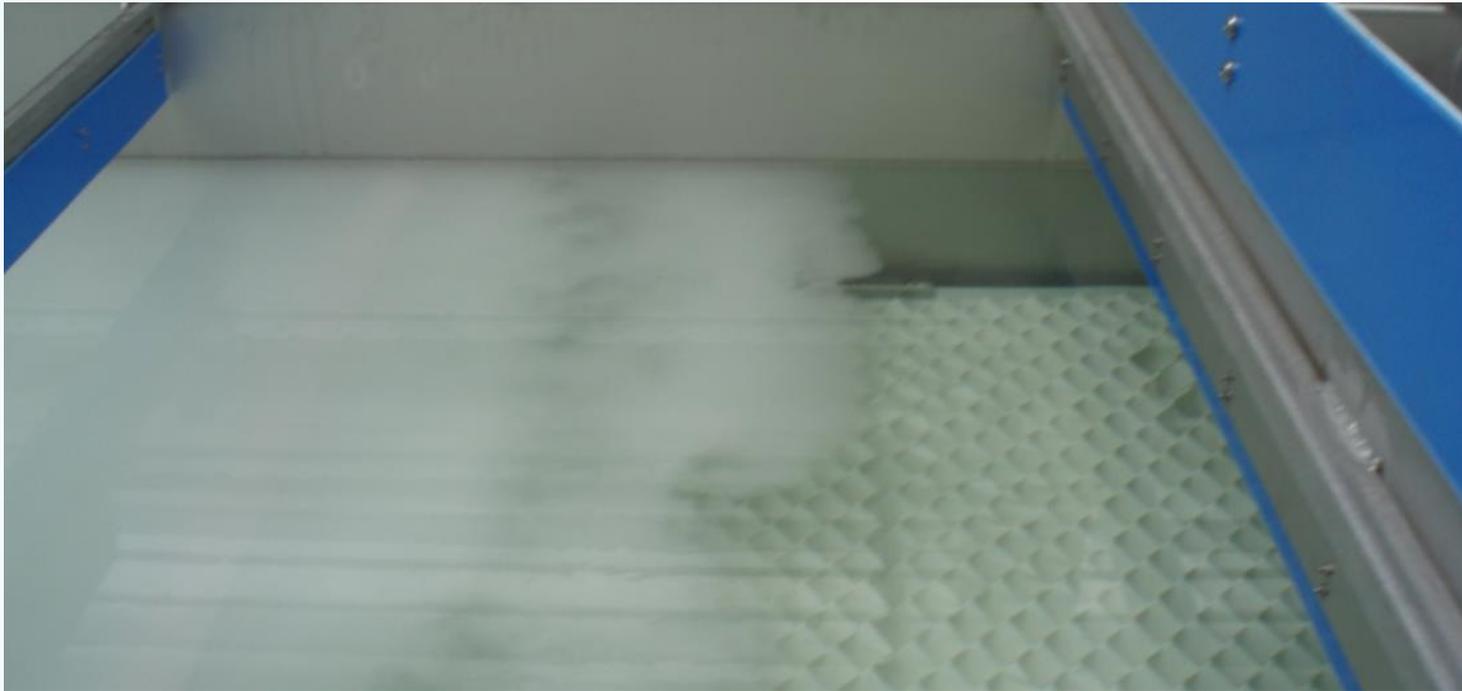
Average daily flow (m3/d)	320
Maximum daily flow (m3/d)	960
Maximum hourly flow (m3/h)	40
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	
Secondary settling tank	
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	+
Air blowers	
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “Vilke” meat factory, Lithuania



Average daily flow (m3/d)	280
Maximum daily flow (m3/d)	840
Maximum hourly flow (m3/h)	35
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	+
Wastewater reception tank	
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	
Secondary settling tank	
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	+
Air blowers	
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “Agrovet” meat factory, Lithuania



Average daily flow (m3/d)	160
Maximum daily flow (m3/d)	480
Maximum hourly flow (m3/h)	20
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	
Secondary settling tank	
Excess sludge accumulation tank	
Treated wastewater mineralisation tank	
Sample collection tank	
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	+
Air blowers	
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “Alvest” PET recycling, Czech Republic



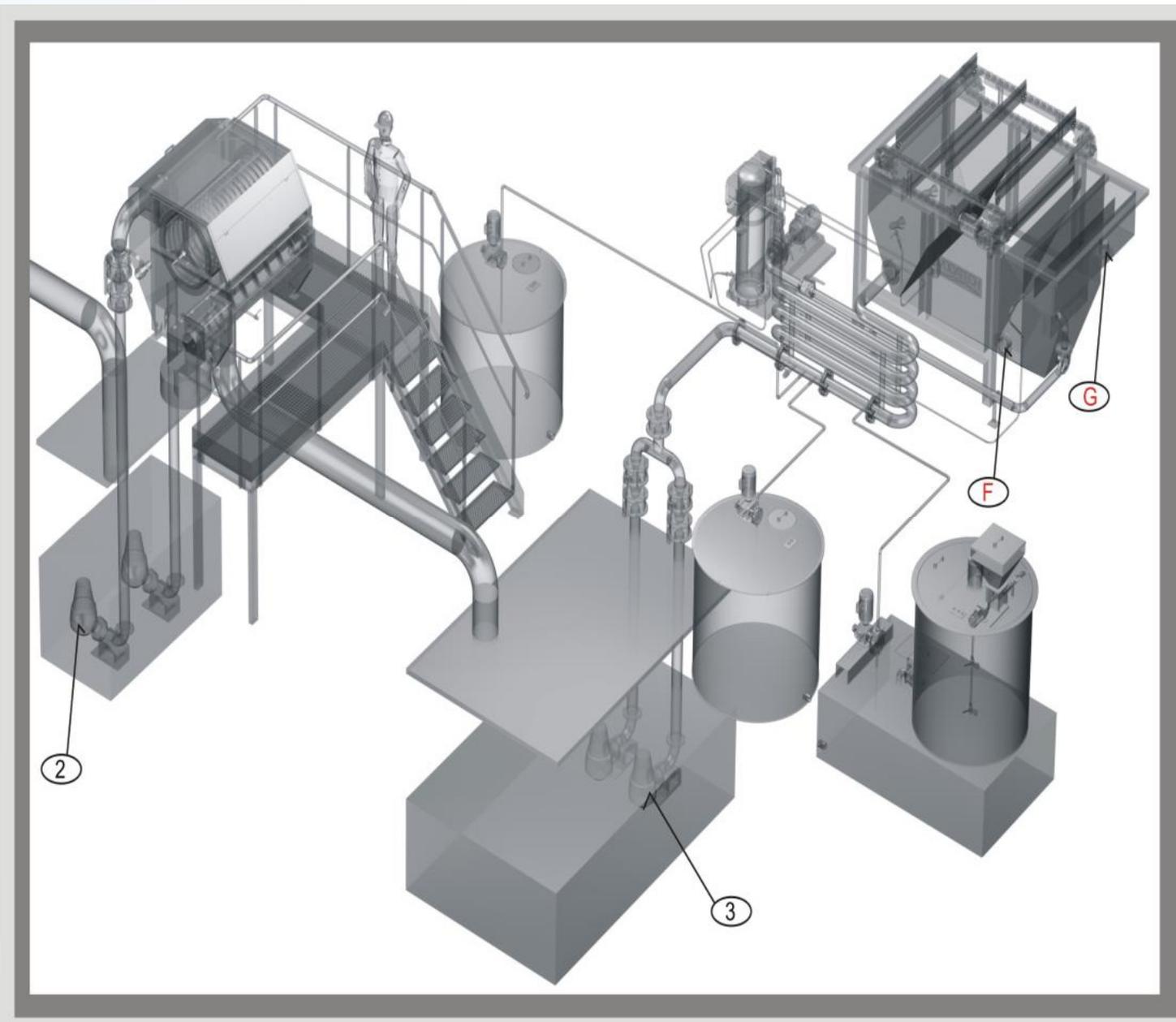
Average daily flow (m3/d)	160
Maximum daily flow (m3/d)	480
Maximum hourly flow (m3/h)	20
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	
Secondary settling tank	
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	+
Air blowers	
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “Lactalis Vitre” milk factory, France



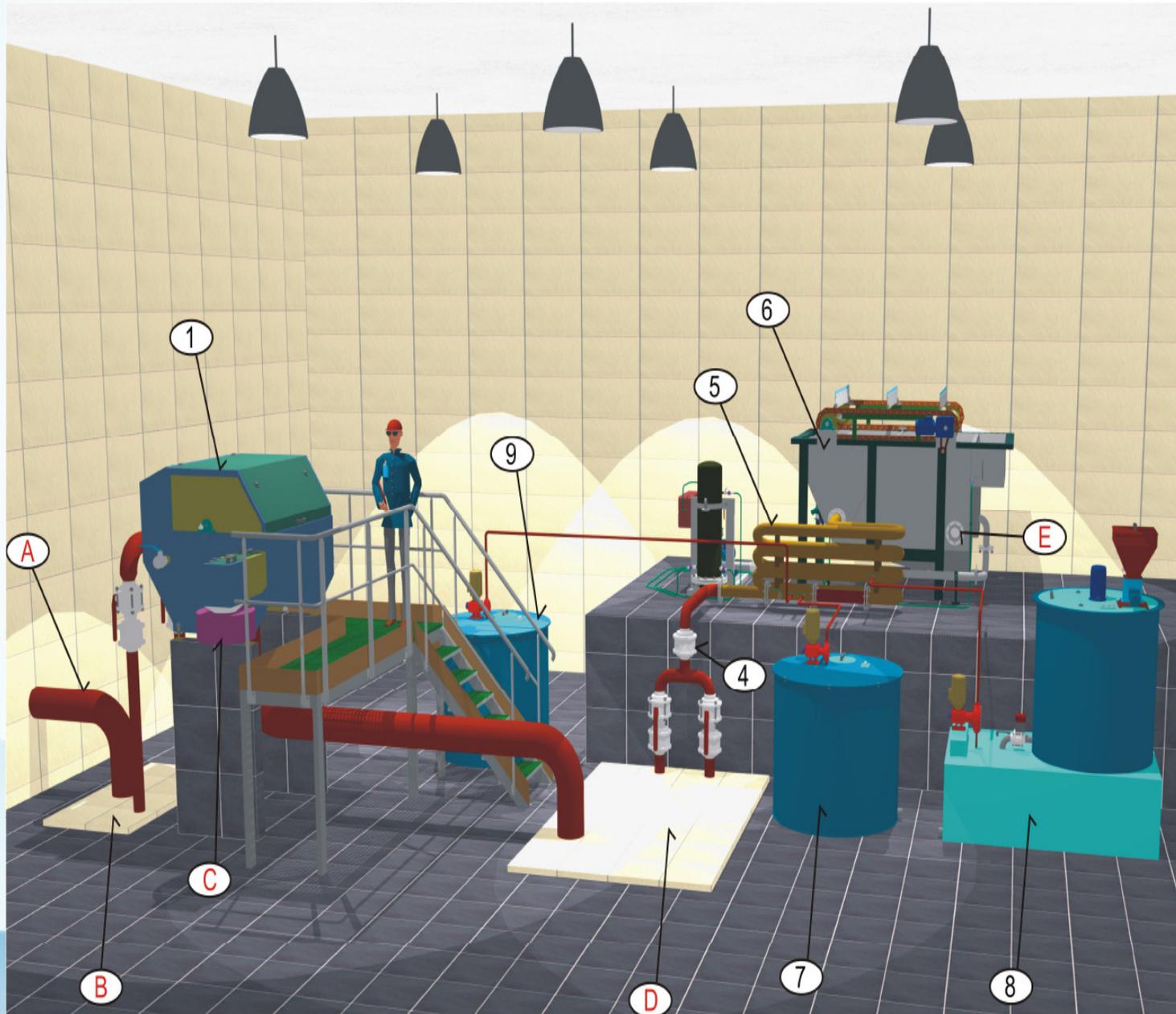
Average daily flow (m3/d)	800
Maximum daily flow (m3/d)	2400
Maximum hourly flow (m3/h)	100
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	
Secondary settling tank	
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	+
Air blowers	
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “R&Q” chemical industry factory, France



Average daily flow (m3/d)	400
Maximum daily flow (m3/d)	1200
Maximum hourly flow (m3/h)	50
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	
Secondary settling tank	
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	+
Air blowers	
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+

JSC “Koroza” meat factory, Bulgari



Average daily flow (m3/d)	240
Maximum daily flow (m3/d)	720
Maximum hourly flow (m3/h)	30
Sewage pumping station at the inlet	+
Local sewage pumping station	
Pumping station of the outlet	
Wastewater reception tank	
Wastewater distribution tank	
Imported wastewater reception tank	
Grease tank	
Buffer tank	+
Biological reactor	
Secondary settling tank	
Excess sludge accumulation tank	+
Treated wastewater mineralisation tank	
Sample collection tank	
Flow metering tank	+
Dried sludge storage area	
Rack (for sediment screening)	
Sand catcher (for sand screening)	
Grease catcher (for grease screening)	
Rotary sieve (for sediment screening)	+
Chemical dosing station	+
Flotator	+
Air blowers	
Tertiary (advanced) treatment	
Sand filters (in-depth treatment)	
Treated WW processing using UV lamps	
Flowmeters (for flow accounting)	+
Analytical instrumentation, thief sampling	+
Sludge drying equipment	
Excess sludge sanitisation equipment	
SCADA software	+
Automatic control of the facility	+