RECOVERING LOSS FROM FOOD PROCESSING STREAMS

Use of clarifiers, decanters, hydrocyclones, DAF and Save-Alls during wastewater treatment equals lost by-product & lost profits!

The Problem:

In meat processing, it is not uncommon to discover that as much as 1,000-2,000 ppm of saleable by-product is lost to effluent treatment as unwanted sludge.

The Solution:

One Baleen '120-Series packaged plant can reclaim around 4 metric-tonnes per hour of meal/fat/fibre from 2,000GPM of effluent (subject to survey). At profit/savings of US\$50 per Tonne and 4,000 operating hours (Per Year) it's not difficult to see that Baleen provides for a solid return on investment (measured in months).

Pre-requisites:

- 0.05" (1.25mm) pre-screen or similar (ideal but not essential)
 Onsite/offsite screenings/by-product management
 Concrete foundation and Utility requirements (subject to site survey)

Nota Bene:

ppm = mg/L = g/kL, 2,000GPM = 456kL/hr, U\$\$50 = AU\$70 (Sept '15)

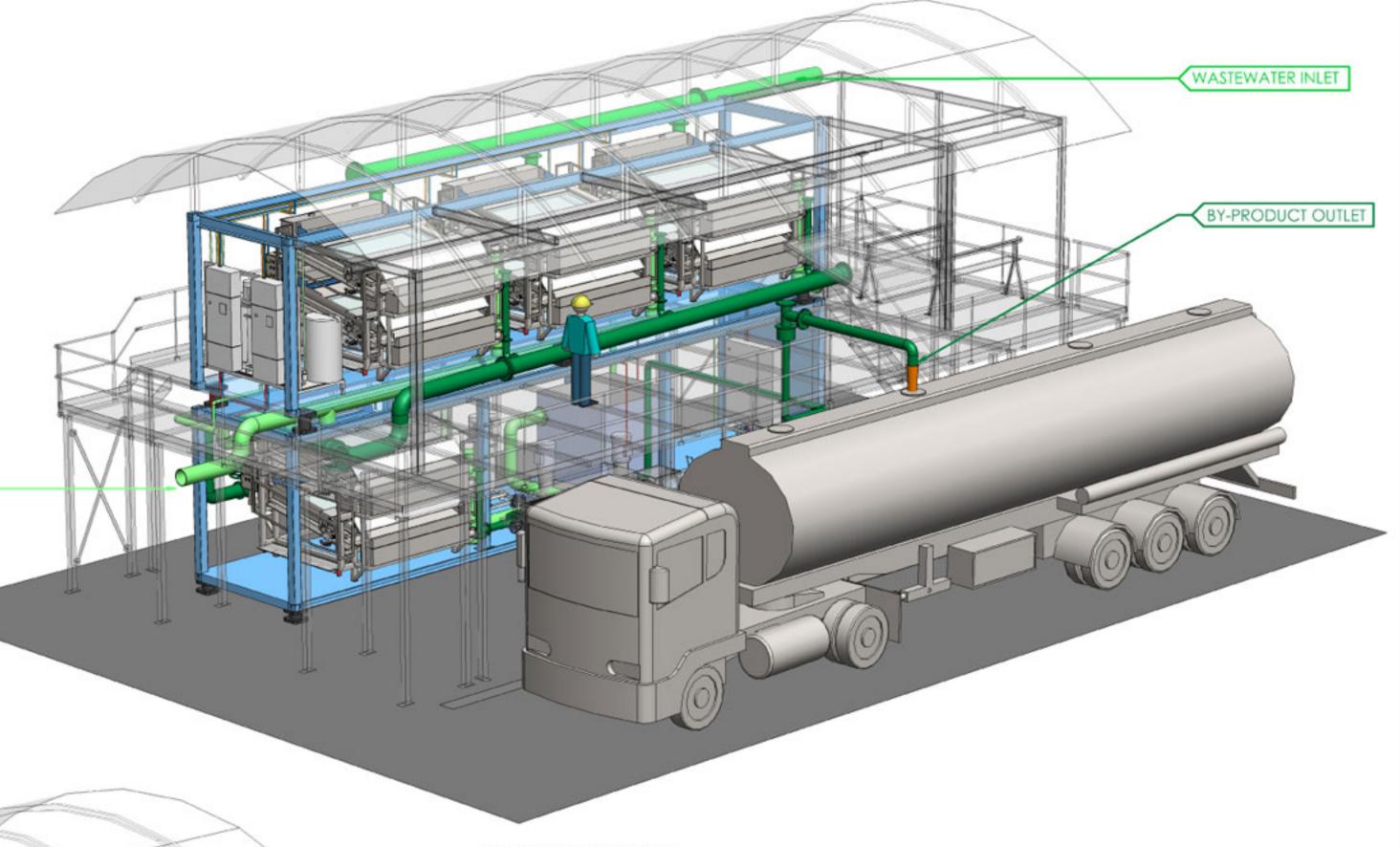
Industry Benefit:

By-product Recovery for revenue (Stage 1- Resource Separation, as shown); SPN land avoidance/reduction;

Inline DAF energy/consumable savings & improved discharge compliance; 'Fit for Purpose' water re-use opportunity (Stage 2 - Barrier Filtration); Rapid Return On Investment (Basis: SPN US\$0.08/lb & By-product US\$0.12/lb).

Benefit to the Environment:

Baleen delivers dramatic treatment-plant energy-savings (viz. DAF alternative) and in-process water-savings (viz. Drum Screen spraywater recycle or other re-use opportunity).





Functional Description:

Baleen is readily integrated into existing operations using gravity pipework with clean by-product delivered for immediate offsite cartage. More than 10-years of continuous service in this industry confirms Baleen can consistently yield by-product of 12-14% solids content, which can be mechanically thickened to as much as 15-30% if required.

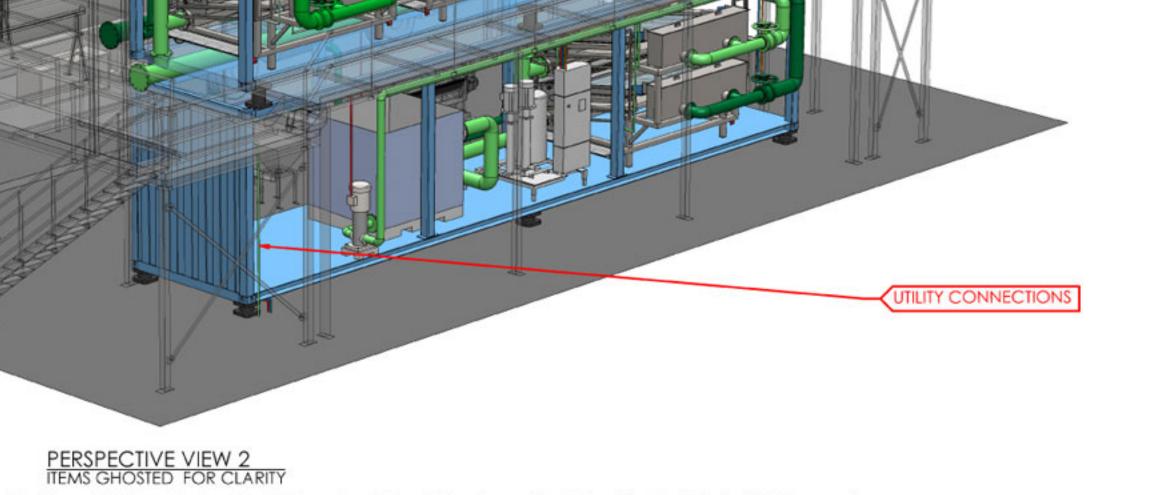
Product Features:

- Major part change-out in 15-30 minutes
- 'Hot Swap' automation to alleviate operational downtime
- Exceptionally low service requirement per annum

Technology Features:

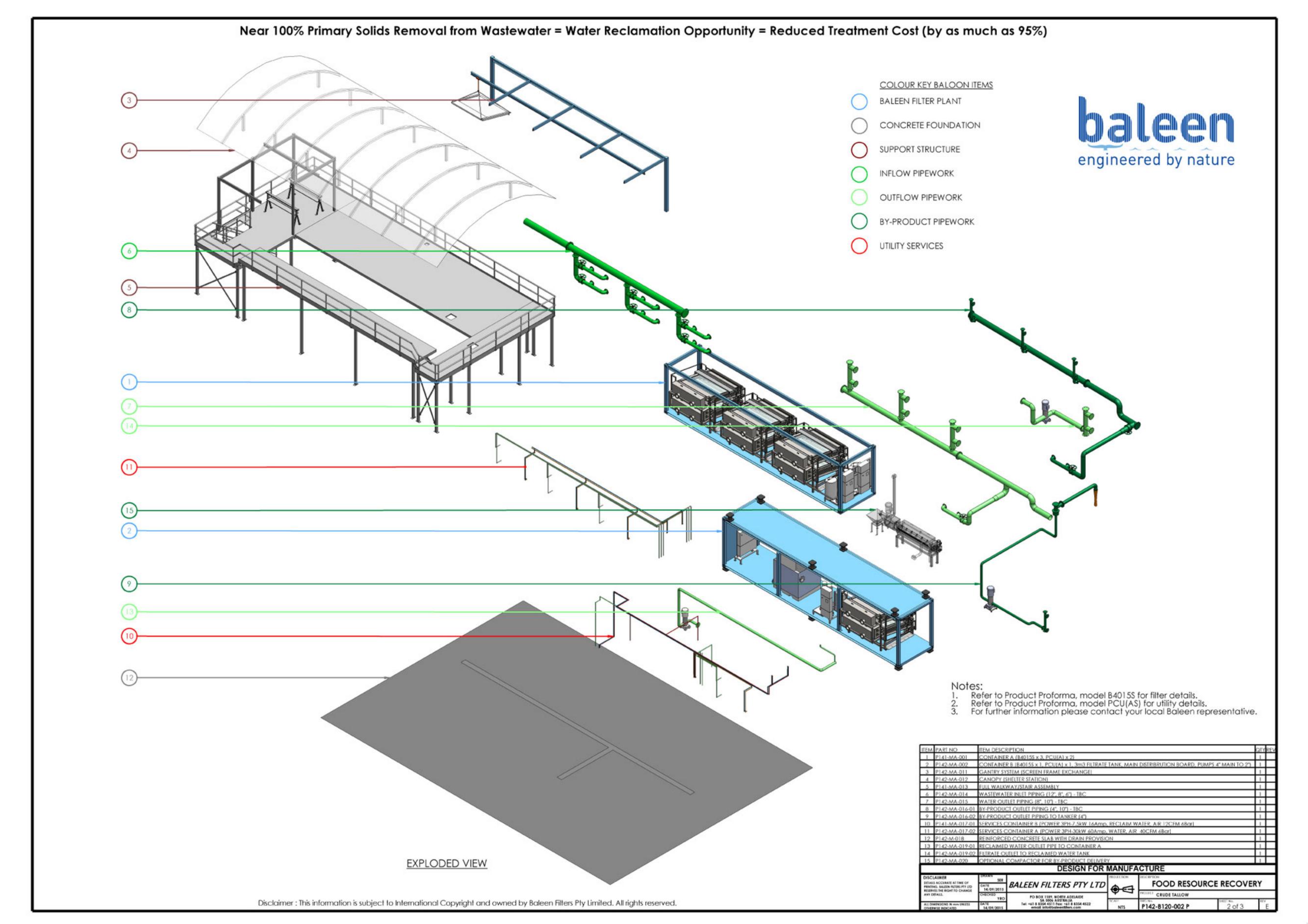
- FAT certified, ready-to-install plant Packaged in customised 40-ft (12.5m) shipping containers 'Connect and Use' within 14-days of delivery
- Complete pipework, framework and utility connection provisions
 Locked-in process-performance monitoring
 Online density/flow log of recovered by-product volume
 Instrumentation and remote-monitoring for full auto-operation
 Detailed design (PFD, P&ID and 3D CAD) for optimum durability

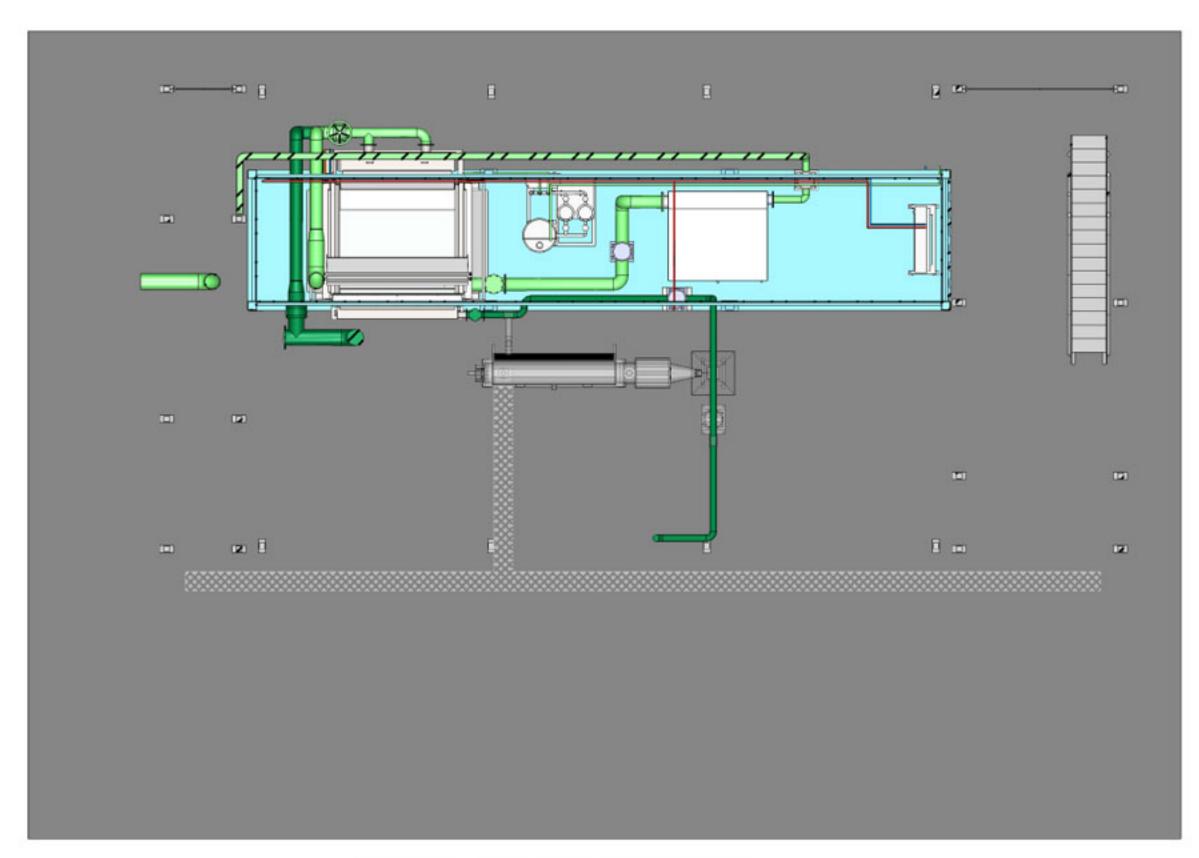
- No chemical or potable water requirement for operation Compliant to international safety, electrical & building codes



DESIGN FOR MANUFACTURE **FOOD RESOURCE RECOVERY** BALEEN FILTERS PTY LTD P142-B120-001 P

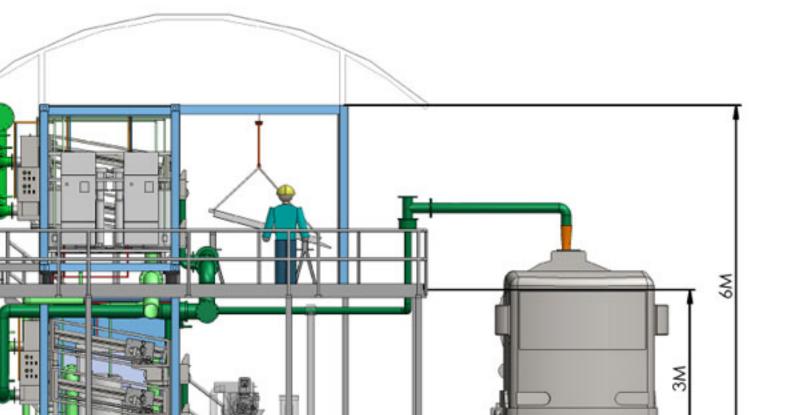
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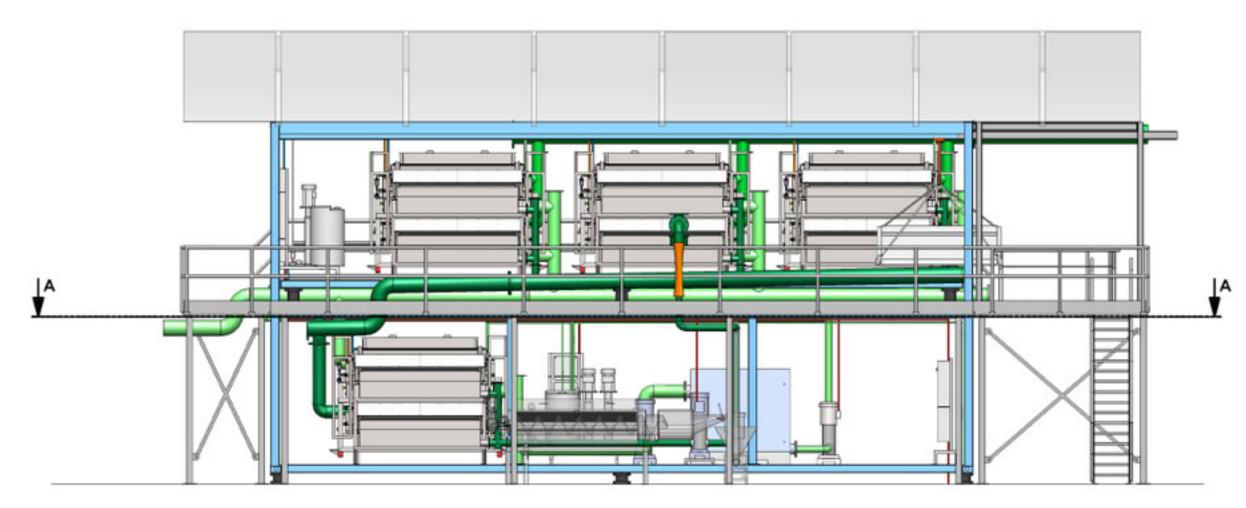
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SECTION A - LOWER CONTAINER LAYOUT
BY-PRODUCT COMPACTOR & DRAINS GHOSTED, SUBJECT TO SITE SURVEY



SIDE ELEVATION

PLAN VIEW
CANOPY OMITTED FOR CLARITY



FRONT ELEVATION

- Wastewater inflow is pumped to Baleen plant, and filtered water outlet is by gravity.
 By-product outflow is delivered by pump at a minimum of 12-14% solids content.
 All ancillary works (utility services, concrete foundation, bunding provisions) to be supplied and installed by the client to Baleen's specifications.
 By-product collection and handling (truck shown) is responsibility of the client.
 For further information please contact your local Baleen representative.



DESIGN FOR MANUFACTURE						
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