

TREATMENT PLANT APPROVAL 04/2020

Plumbing and Drainage Act 2018

Approval

- The Kingspan Advanced BioFicient (8EP/1200L) ("the system") described in the Specifications and Drawings in the attached Schedule and manufactured by Kingspan Water & Energy Pty Ltd ("the manufacturer") (ABN 62 108 491 881) ("the manufacturer") has been assessed in accordance with the Queensland Plumbing and Wastewater Code (QPW Code) dated 26 March 2019.
- 2. Approval is granted for the advanced secondary quality wastewater treatment system, subject to compliance by the manufacturer with the requirements of the *Plumbing and Drainage Regulation 2018*, and the conditions of approval detailed below.
- 3. This approval, the conditions of approval and the Schedule comprise the entire Treatment Plant Approval document.
- 4. Any modification by the manufacturer to the design, drawings or specifications scheduled to this approval must be approved by the Chief Executive.

Conditions of approval

- 5. The manufacture, installation, operation, service and maintenance of the systems must be in conformity with the conditions of this Treatment Plant Approval.
- 6. The system when tested by a certification accreditation body in accordance with AS1546.3:2017 was found to comply with the advanced secondary 8EP/1200L level without nutrient reduction effluent criteria and must continue to meet the following requirements:

REDUCTION FACILITIES								
Parameter	Secondary effluent		Advanced secondary effluent					
	90% of samples	Maximum	90% of samples	Maximum				
BOD ₅	≤20 mg/L	30 mg/L	≤10 mg/L	20 mg/L				
TSS	≤30 mg/L	45 mg/L	≤10 mg/L	20 mg/L				
E. coli*	≤10 cfu/100 mL	30 cfu/100 mL	≤10 cfu/100 mL	30 cfu/100 mL				
FAC	Minimum 0.5 mg/L†	N/A	Minimum 0.5 mg/L†	N/A				
Turbidity	N/A	N/A	Ň/A	5 NTU				

TABLE 2.1 (AS1546.3:2017) EFFLUENT COMPLIANCE CRITERIA

FOR AN STS WITH NO NUTRIENT

* Where disinfection is required.

† Minimum level, not 90% of samples.

7. Each system must be serviced in accordance with the accreditation certificate and details supplied in the owner's operation and maintenance manual.

Treatment Plant Approval Approved by: Lindsay Walker Delegated Authority Department of Housing & Public Works



8. Each system must be supplied with —



- (a) a copy of this Treatment Plant Approval document;
- (b) details of the system;
- (c) instructions for authorised persons for its installation;
- (d) a copy of the owner's manual to be given to the owner at the time of installation; and
- (e) detailed instructions for authorised service personal for its operation and maintenance.
- 9. At each anniversary of the Treatment Plant Approval date, the supplier must submit to the Chief Executive a list of all systems installed in Queensland during the previous 12 months. Where the Chief Executive is notified of any system failures the Chief Executive may randomly select a number of installed systems for audit. The Chief Executive will notify the supplier's nominated NATA accredited laboratory which systems are to be audited for BOD⁵ and TSS. The sampling and testing of the selected systems, if required, is to be done at the supplier's expense. The following results must be reported to the Chief Executive;
 - (a) Address of premises;
 - (b) Date inspected and sampled;
 - (c) Sample identification number;
 - (d) BOD⁵ for influent and effluent; and
 - (e) TSS for influent and effluent.
- 10. The Chief Executive may, by written notice, cancel this approval if the manufacturer/supplier fails
 - (a) to comply with one or more of the conditions of approval; or
 - (b) within 30 days, to remedy a breach, for which a written notice been given by the Chief Executive.
- 11. This approval may only be assigned with the prior written consent of the Chief Executive.
- 12. This approval expires on 10 September 2025 unless cancelled earlier in accordance with paragraph 10 above.

Lindsay Walker

Director Plumbing, Drainage and Special Projects Building Legislation and Policy Date approved: 11 September 2020 Level 7, 63 George Street Brisbane GPO Box 2457, Brisbane Qld 4001

> **Telephone** +61 7 3008 2557 Facsimile +61 7 3237 1248 **Website** <u>www.hpw.qld.gov.au</u>

> > ABN 61 331 950 314

Treatment Plant Approval Approved by: Lindsay Walker Delegated Authority Department of Housing & Public Works





TREATMENT PLANT APPROVAL No. 04/2020 *Plumbing and Drainage Act 2018*

SCHEDULE

Attachment 1

Drawings and Specifications for the

Kingspan Advanced BioFicient (8EP/1200L)

Treatment Plant Approval Approved by: Lindsay Walker Delegated Authority Department of Housing & Public Works



PRODUCT CERTIFICATE OF REGISTRATION



Global Certification Pty Ltd

Number 581

Product Performance Testing

AS 1546.3:2017

Advanced Secondary 1200 L/day or 8EP Level

Issued to

Kingspan Water and Energy Pty Ltd 3 Herbert Place, SMITHFIELD NSW 2164

Certification Date: - 11 June 2020

Expiry Date: - 10 June 2025

Product Certified:

Model	Disinfection	Average Results over the Test Period		Servicing Frequency	Discharge	Manufactured and assembled			
Kingspan Advanced BioFicient WWTP	Yes	TSS BOD₅ Turbidity E coli	4.1mg/i 1.07mg/i 6.9 NTU <1 CFU/100ml	3 Monthly Service 2 yearly sedimentation pump out or as required	Pumped via disinfection/pump chamber with chlorine dispenser	Manufactured and Assembled: At 3 Herbert Place, SMITHFIELD NSW 2164			
The system took 5 weeks to meet the advanced secondary standard. It is serviced 3 monthly.									

NACE CODES: 3700

This Certificate of Conformance to the Product Certificate Scheme for "Domestic Wastewater Treatment Units (Septic Tanks) and Rainwater Tanks" remains the property of Global Certification Pty. Ltd. and is granted subject to the terms and conditions of the Contract Application, in respect of the Product certified on this page and the attached schedule to the Certification of Conformance, bearing the same number as this certificate.

Tucemak



Date of Issue: 11th June 2020

Bruce Smith Director

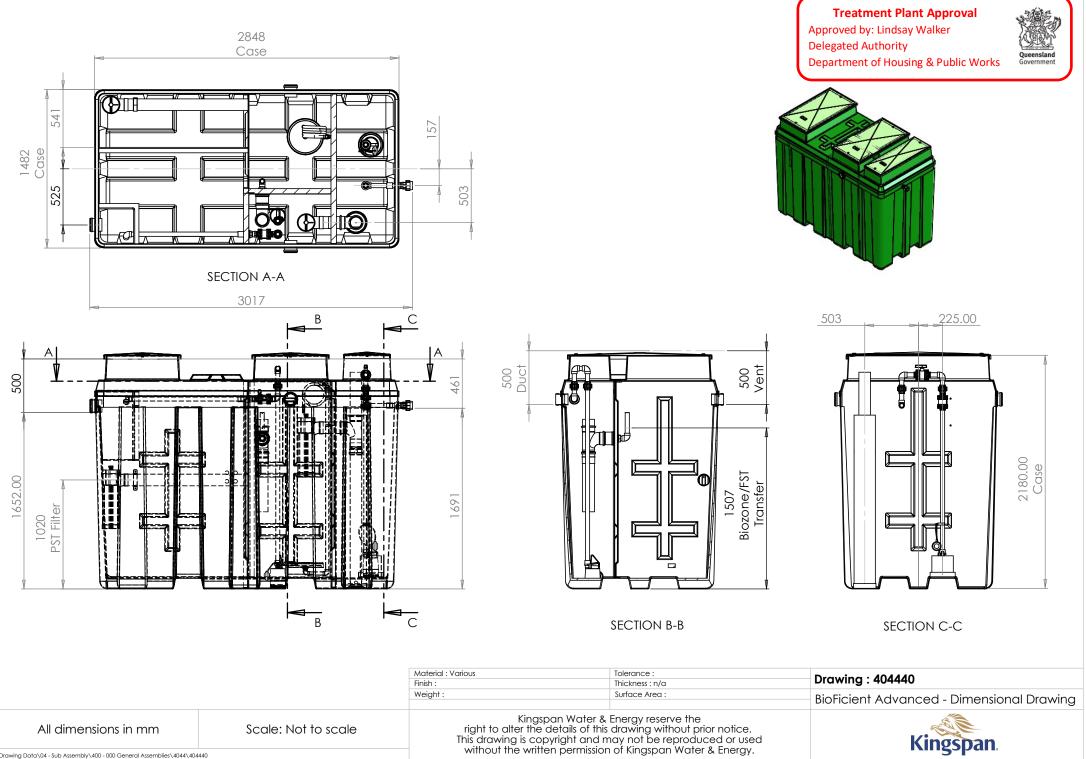
www.jas-anz.com.au/register

Signed for and on behalf of Global Certification Pty Ltd PO Box 953 Belconnen ACT 2616

Treatment Plant Approval

© Global Certification Pty Ltd. GC0 508 R4 Yuly 2015 Lindsay Walker **Delegated Authority**

Department of Housing & Public Works



Z:\Drawing Data\04 - Sub Assembly\400 - 000 General Assemblies\4044\404440



