

TECHNOLOGIES BIONEST INC.
(BIONEST TECHNOLOGIES INC.)

55, 12e Rue
Shawinigan, Québec G9T 5K7

NQ 3680-910/2000-06-16 M1 (2004-09-10)

*Wastewater Treatment - Stand-Alone Wastewater Treatment
Systems for Isolated Dwellings*

Certificate number: **900**
Issue date: **2024-02-28**
Expiry date: **2025-10-31**

Stand-alone wastewater treatment systems

Bionest Model

Treatment chain Primary treatment and Bionest reactor

Capacity :

Number of bedrooms	Total daily total flow (L/d)	Model Designation	Hydraulic capacity (l/d)	Primary treatment (m ³)	Bionest Reactor (m ³)
1	0-540	SA-3	1260	3.4	3.4
2	541-1080	SA-3	1260	3.4	3.4
3	1081-1260	SA-3	1260	3.4	3.4
4	1261-1440	SA-4	1440	3.9	3.9
5	1441-1800	SA-5	1800	4.3	4.3
6	1801-2160	SA-6	2160	4.8	4.8
6	2161-2700	SA-6C27	2700	5.7	5.7
6	2701-3240	SA-6C32	3240	6.8	6.8

Material : Concrete or plastic

Certificate details

Treatment class : Class III.

Influent wastewater Temperature: The tests specified in sections 8.1 and 8.2 were carried out with influent wastewater at a minimal controlled temperature of 18°C.

Other : This treatment chain includes a primary reactor (septic tank with recirculation) as primary treatment.



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Bionest model with UV disinfection

Treatment chain Primary reactor and Bionest reactor with UV reactor

Capacity :

Number of bedrooms	Total daily total flow (L/d)	Model Designation	Maximum hydraulic capacity (l/d)	Primary treatment (m ³)	Bionest Reactor (m ³)
1	0-540	SA-3D	1260	3.4	3.4
2	541-1080	SA-3D	1260	3.4	3.4
3	1081-1260	SA-3D	1260	3.4	3.4
4	1261-1440	SA-4D	1440	3.9	3.9
5	1441-1800	SA-5D	1800	4.3	4.3
6	1801-2160	SA-6D	2160	4.8	4.8
6	2161-2700	SA-6C27D	2700	5.7	5.7
6	2701-3240	SA-6C32D	3240	6.8	6.8

Material : Concrete or plastic

Authorized UV Reactors

Designation : UVMax « D » lamp model from TROJAN TECHNOLOGIES, is permitted up to a maximum of 3 240 l/d or a maximum disinfection rate of 2.8 L / min.
UV Sterilight Cobalt sc320 from Viqua is permitted up to a maximum of 3 240 l/d.

Certificate details

Treatment class : Class V.
Influent wastewater Temperature: The tests specified in sections 8.1 and 8.2 were carried out with influent wastewater at a minimal controlled temperature of 18°C.
Other : This treatment chain includes a primary reactor (septic tank with recirculation) as primary treatment.

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List of recognized manufacturers and assemblers for system components

Concrete manufacturers and assemblers:

Aubert & Marois ltée 842, rue Principale Saint-Étienne, Québec G6J 1A8	Blocs Normand inc. 560, rue du Domaine Ste-Agathe-des-Monts, Québec J8C 2Z4	Industries de Ciment La Guadeloupe inc. 238, 14 ^e Avenue La Guadeloupe, Québec G0M 1G0
Béton Bolduc inc. 1358, 2 ^e Rue, Parc Industriel Sainte-Marie, Québec G6E 1G8	Boisclair et fils inc. 715, boul. des Laurentides Piedmont, Québec J0R 1K0	Rénova Béton Inc. 317, St-François-Xavier Delson, Québec J5B 1X8
Béton Brunet 2001 inc. 300, avenue du Moulin Mont-Laurier, Québec J9L 3E7	Ciment Lacasse ltée 48, montée Laramée Sainte-Anne-des-Plaines, Québec J0N 1H0	Matériaux économiques inc. 2900, rue Jules-Vachon Trois-Rivières, Québec G9A 5E1
Béton Provincial ltée, usine de Matane 1825, avenue du Phare Ouest C. P. 160 Matane, Québec G4W 3M6	Cimenterie Genest (1995) inc. 71, avenue d'Auteuil Saint-Basile, Québec G0A 3G0	Préfab Gosselin ltée 318, rue Flintkote Thetford-Mines, Québec G6H 4W4
Béton Aquamix 8, rue d'Amours Eastman, Québec J0E 1P0		Béton Provincial ltée 34, route 132 Ouest Trois-Pistoles, Québec G0L 4K0

Plastic assemblers :

Blocs Normand inc. 560, rue du Domaine Ste-Agathe-des-Monts, Québec J8C 2Z4	Ciment Lacasse ltée 48, montée Laramée Ste-Anne-des-Plaines, Québec J0N 1H0	Matériaux économiques inc. 2900, rue Jules-Vachon Trois-Rivières, Québec G9A 5E1
Quincaillerie Touraine 1959, rue Saint-Louis Gatineau, Québec J8T 4H6	Rénova Béton Inc. 317, rue St-François Xavier Delson, Québec J5B 1X8	Boisclair & Fils inc. 715, boul. des Laurentides Piedmont, Québec J0R 1K0
Aubert & Marois ltée 842, rue Principale Saint-Étienne, Québec G6J 1A8		



Bureau de normalisation
du Québec

BNQ is a member of the National
Standards System (NSS).

ANNEX TO THE CERTIFICATE

TECHNOLOGIES BIONEST INC.
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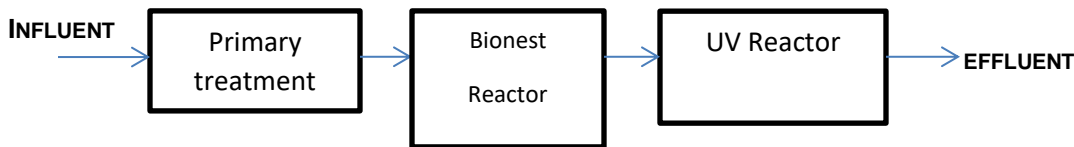
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FLOW DIAGRAM OF BIONEST SYSTEM WITH UV DISINFECTION



THE ANNEX IS AN INTEGRAL PART OF THE CERTIFICATE.



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HISTORY	
Date	Modification description
2005-10-11	Based on certificate No. 792, certification of models SA-3, SA-4, SA-5 and SA-6, class III and models SA-3D, SA-4D, SA-5D and SA-6D, class V (with UV lamp).
2006-03-17	Issue of certificate No. 900 following a change of address of the manufacturer and the cancellation of certificate No. 792.
2013-10-23	Addition of models SA-6C27, SA-6C32, SA-6C27D and SA-6C32D.
2015-08-17	Removing the nine drawings.
2015-11-02	Renewal of certificate.
2016-05-27	Changing the address of the company.
2017-10-31	Renewal of certificate.Update of the annex.
2018-11-28	Withdrawal of Béton Dunbrick (Div. Gazon Savard Saguenay).
2019-02-06	Withdrawal of G. L'Écuyer transport inc. and Beachburg Ltd., MacGregor Concrete
2019-10-30	Renewal of certificate.
2020-09-30	Precision on a model used and approved as of 2010-01-28: confirmation of UV reactor model Sterilight Cobalt sc320.
2021-10-27	Correction of the hydraulic capacities of the SA-3 model and the definition of the primary treatment in the annex to the certificate. Renewal of certificate..
2021-12-01	Correction of the name of BMR Quincaillerie Touraine for Quincaillerie Touraine.
2023-05-09	Addition of assembler DMA Préfab.
2023-10-19	Renewal of certificate.
2023-02-28	Addition of Aubert et Marois Itée to the plastic system assemblers list. Withdrawal of DMA Préfab and modification of J.M. Turcotte business name for Béton Provincial Itée.