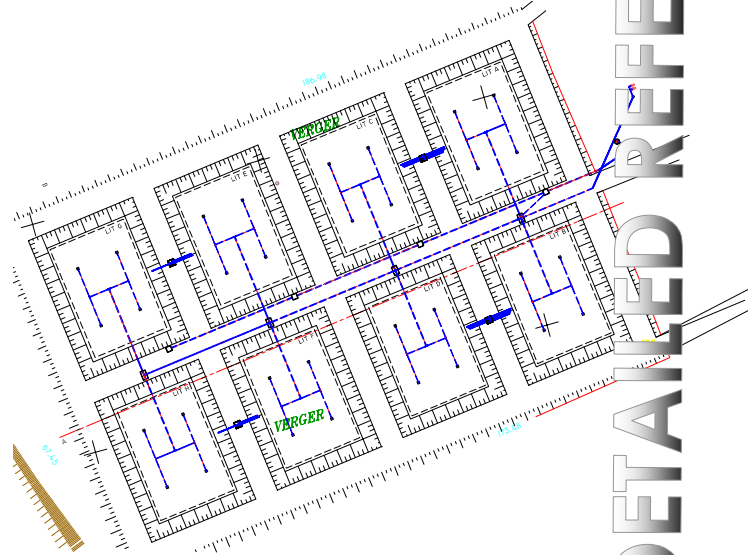




Reed beds for sludge treatment



DETAILED REFERENCES

## « ALBON » PHRAGMICOMPOSTAGE® TREATMENT PLANT 13000 PE

Owner : ..... Syndicat Intercommunal d'Assainissement du Pays d'Albon  
 Consultant Engineers for Sludge treatment plant : ..... Saunier Environnement / SINT  
 Sludge treatment designer : ..... SINT  
 Place and date of creation : ..... Commune d'Andancette, DROME, 2003  
 Investment costs : ..... 484 979 €HT  
 Contractors : ..... Boisset TP

### Type of treatment :

The « SIA Albon » is an activated sludge sewage treatment plant for a population of 13 000 inhabitants. It receives sewage from houses and industries from four villages including Albon. Sludge is extracted from the aeration tank and dehydrated on **8 Phragmicompostage® reed beds of 3750m<sup>2</sup>** in total. Sludge then becomes more solid (up to 30% dry matter) and easier to make use of.

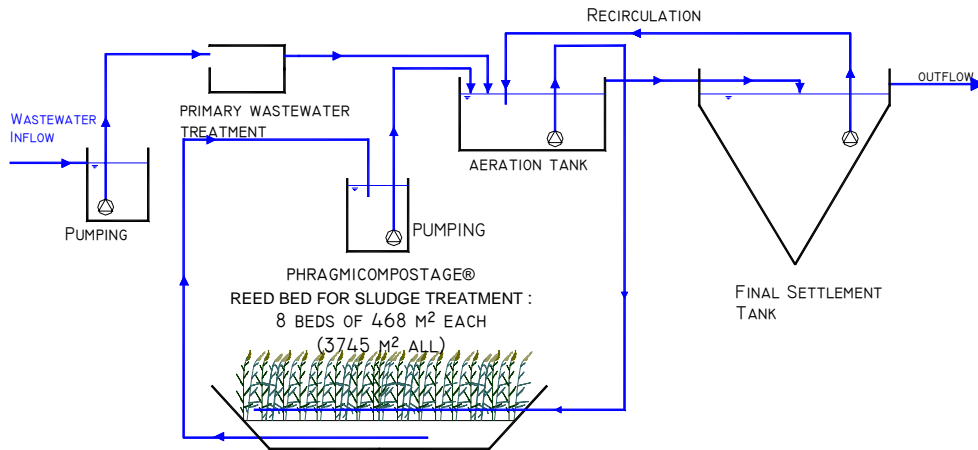
**This is today the biggest plat in France with this natural and alternative technology.**

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## Layout :



## Advantages :

*This technology permits:*

- **Extraction of sludge when necessary**, on the sewage treatment plant;
- **On-site storage**, no transport ;
- **Inexpensive treatment, without reacting chemicals** involving, non-septic and low concentrated extracted water.

*Reed plantation and alternate feeding permits:*

- Sludge permeability for **drainage** (50% of water loss) ;
- Deep water usage due to roots and evapotranspiration (50% of water loss) ;
- Oxygenation to stabilize and mineralize the sludge, **odorless**.

*Extraction of produced compost, a task:*

- To be done **every 10 years** per bed (first time after 8 years);
- Simple, can be done with a mechanical shovel.



*Sludge treatment reed beds*

This technology leads to a final dried product (**30% dry matter**), **well mineralized**, a compost which can be used in agriculture\* or land settings.

\* if conform to legal standards