

[Home](#) ■ [HUBER Report](#) ■ [Northern Ireland AD Facility Heavy Fraction Removal Initial Report](#)

## Northern Ireland AD Facility Heavy Fraction Removal Initial Report



*Grit washer was elevated so that the overflow drained back to the grit trap*

An existing anaerobic digestion plant in Northern Ireland takes in a mixture of food waste and green waste. In order to reduce the

volume of grit in the system which causes a lot of blockages, sedimentation and wear issues, HUBER were asked to look at the installing a grit removal plant between the hammermills and the soup stock tank.

A HUBER Longitudinal Grit Trap ROTAMAT® Ro6 Bio with aeration and grit washing was selected to reduce the grit in the system. The grit trap allows settlement of the heavy fraction and an air circulation reduces the organics that settle in the tank. This heavy fraction is augured to the inlet end of the trap from where it is elevated and drained on an inclined auger. This heavy fraction is then washed and dewatered in a HUBER Grit Washer RoSF G4E Bio grit washer to wash out the organics and provide a reduced volume for disposal. The washed out organics are drained back to the grit trap. Retrofitting a longitudinal grit plant requires careful consideration and attention to pumping which HUBER assisted in advising on.

The removal of the grit and glass will dramatically improve the plants performance and reliability.



Grit, glass, and bone removed from the grit washer



Sieved material removed from grit washer



Organic material washed out ...



... of removed grit and returned to the flow

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#### Related Products:

- [HUBER Longitudinal Grit Trap ROTAMAT® Ro6](#)
- [HUBER Grit Washer RoSF G4E](#)

#### Related Solutions:

- [HUBER Solutions for Organic Waste Processing](#)
- [HUBER Solutions for Mineral Waste Utilization](#)
- [HUBER Solutions for Grit Treatment](#)

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