

CASE STUDY:

Tri-Lakes, MO

Biosolids Regional Drying Facility



BIO-SCRU® FACT SHEET

Tri-Lakes Biosolids Regional Drying Facility

Location:	Branson, MO
End User:	Tri-Lakes/Taney County
Process Capacity:	4,000 Wet lbs./hr.
Fuel Source:	Natural Gas
Cake Dryness:	20% DS
Bio-Scru® Model:	HSD-30D-28-6
Heating Fluid:	Thermal Oil
Sludge Feed:	Seepex Progressive Cavity Pump
Start-up:	April, 2015
Beneficial Reuse:	End Product is to be given away or sold in bulk for agricultural use.



Bio-Scru® ~ 1 RPM, Low Dust and Abrasion

PROJECT OVERVIEW

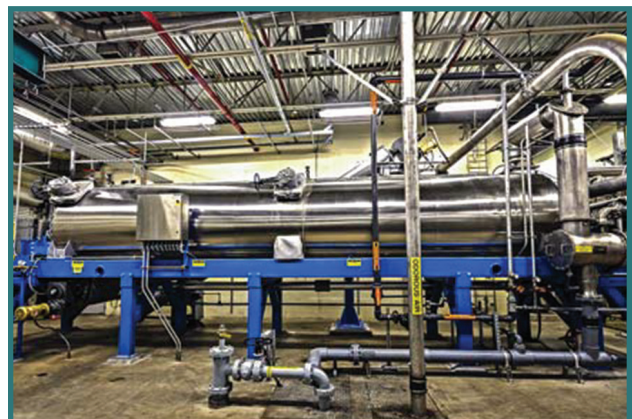
The Tri-Lakes Biosolids Regional Drying Facility brings in material from three WWTP's in the Branson area. Three Centrifuges and the Bio-Scru were the main components of the facility. Each of the three feeder plants installed a centrifuge with one of the plants also installing the dryer. Millions of dollars in construction cost were saved by placing all equipment in existing buildings that previously held gravity-belt thickeners as well as the Truck Load-Out Building. Biosolids from the outside two treatment plants are trucked to the central facility after dewatering and are then processed further using the dryer to achieve Class A Biosolids status.



Dried biosolids beneficially reused in agriculture (Rogers, AR)

PROJECT BENEFIT

Tri-Lakes will take the biosolids at 19–21% DS and process them at a rate of 4,000 wet lbs./hr. using the Bio-Scru Model HSD-30D-28-6 to process the material to $\geq 90\%$ DS. The Company will then have the ability to give away or sell the end material for local agriculture use rather than pay for transportation and landfill tipping fees.



Bio-Scru® IC3600 (Wilsonville, OR)