



## **100% Bio-Product Is Possible For Tooele Using The Huber Solstice.**

Before implementing the Huber Technology SRT Solstice solar dryer solution, the Tooele Wastewater Treatment Plant had been drying its sludge using a belt press/auger combination and using a land activation process to distribute its bio-product. Because of the Class B rating of their sludge cakes, the operations team could only stabilize the product for restricted reuse as fertilizer placed onto the farmer's field. Tooele's wastewater treatment aspirations were much higher. The fact is that the team was working hard toward making its treatment plant green.

## Going Green

Tooele WWTP made a significant step toward becoming a green plant when they implemented three Huber Solar Active Dryer SRT/Sludge Turner SOLSTICE® units. The improvements that change produced made plant manager Ray Henninger ecstatic.

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*"The dryer completely changes our process to give us a cleaner operating environment that is easier to manage and maintain and it raises the quality of our bio-product to Class A. That fact alone transformed our ability to provide a safe, quality product for unrestricted reuse by the city. That, in turn, means cost savings for our plant and for multiple areas across City facilities and properties."*

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The SRT produces a Class A bio-product that:

- Has a vector attraction reduction of 95% with only 5% moisture (Class B compares at 75% vector attraction reduction).
- Requires less monitoring than a Class B bio-product.
- Has unrestricted reuse.
- Saves the plant and the city money.

## Beyond Bio-Product

There is no doubt that the Solar Active Dryer SRT/Sludge Turner SOLSTICE® units produce amazingly dry cake. But the benefits beyond quality of the bio-product are just as impressive.

The SRT units:

- Eliminate the mess associated with other drying methods.
- Operate flawlessly with minimal maintenance and management.
- Enable close to 100% re-use.
- Operate within green plant standards.



*Bio-product with attraction vector of 95% - 5% moisture*

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*"The SRTs practically take care of themselves. We start them on Mondays with the digester at 12 feet and they run for 3.5 days until our digester is down to 8.5 feet. This produces about 40 gpm (20 gpm for each screwpress) of sludge. Over the weekend, the SRTs go into follow-up mode using their solar program. It's quite an asset to our operations and has helped us to completely change the way we do things and what we can contribute back for widespread city use."*

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## Geographical Impact

Seasonal changes in Utah have an impact on reaching Class A and Class B attraction vectors. While easily maintained in the Utah summer season, Utah winters make maintaining the level of dryness in the plant difficult. Since winter highs only reach the 30s, it's likely that the moisture level of the plant may peak out at 30%. The dampness and extreme cold puts cost restraints on the plant's ability to purchase the energy required to heat the floor to temperatures that would enable the cake to reach

the Class B attraction vectors. The summers are a different story. Highs soar to more than 100 – which means the greenhouse can surpass 120°F – and plant dryness isn't a factor.

### Parallel Quality Standards

Tooele WWTP's green operational and product accomplishments are proof that the team takes pride in excellence. Huber's standards for excellence parallel those of Tooele and that is why Huber's products fit perfectly into Tooele's operational environment.

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*"We have a history that starts with purchasing Huber's stepscreens. Once we began what has grown into a great working relationship with Huber, we understood the difference that the Huber products and service make. That initial implementation definitely led to the purchase of several other Huber products we have in the plant, including three SRT Dryer units and two screwpresses. Overall, the ease of both use and implementation is probably the most significant factor. Other products have operational challenges. There is too much risk if the product goes down and too much expense and hassle in getting them operational again. We see none of this with Huber's straightforward, durable and dependable products."*

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Huber's solution excellence goes beyond putting the product in place. If there is something that can be done to better ensure that its product are operating at optimal levels, Huber makes sure it's done before calling the project complete.

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*"Huber replaced a concrete retaining wall with a steel wall because the concrete had failed and wouldn't provide a good operational area for their product. They made sure everything was working the way we needed for it to work before leaving our site. And they are still there for us to answer questions, offer assistance and provide operational tweaks whenever we need them. Their experts also show up onsite for spot checks and regular maintenance. Our experience with them has been very positive."*

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#### Tooele Wastewater Treatment Plant

**Website:**

<http://tooelecity.org/city-departments/community-development-public-works/452-2/>  
**Ray Heninger**, Plant Manager

Tooele, Utah

# of Facilities: 1

# of Units: 3 Huber Solar Active Dryers  
SRT/Sludge Turner SOLSTICE®



Huber serves the municipal and industrial wastewater treatment market with high quality liquid-solid separation technology. Huber Technology offers the complete chain of screening, grit and sludge handling processes. The company is an original source manufacturer specializing in stainless steel fabrication of technologies for water and wastewater. Headquartered in 35,640 sq. ft. of office and manufacturing space in Huntersville, N.C., Huber Technology, Inc. Huber proven experience and expertise with over 25,000 installations worldwide.