

Now with our Slurrystore, the waste is out of sight and out of mind of the neighbors and with the Side-mount Pump's fast agitation, less odor.

Ar-Les Town View Farm

#### Slurrystore Evaluation and Selection

A Slurrystore System is specified and customized to meet your operational needs and storage requirements. This includes analysis of:

- Current storage requirements
- Future expansion requirements
- Available space to construct
- Regulation compliance state and local
- Site specific limitations and considerations
- Funding protocol
- Odor control
- Filling and emptying requirements

Research Proven

A 2011 study by Purdue University examined the

solids and nutrient retention in a Slurrystore and

evaluated the ability of its agitation system to mix the

concentrations during two separate cleanout periods.\*

manure prior to removal. The study concluded that

"The tank agitation system adequately mixed the

manure in the tank during the cleanout process, resulting in little variation in manure nutrient

\*T.D. Nennich, et al, Purdue University, 2011

Agitation, proper and complete, and hauling are a simple, quick, one-man operation compared to my in-ground concrete pit; and it's more important than ever with current fertilizer prices.



#### Site Preparation and Construction

Slurrystore Systems typically require a smaller footprint than other above-ground storage options. That means less dirt to move with more of the surrounding environment undisturbed and available for other expansion needs or maximized productivity of limited space.

Authorized Slurrystore dealers provide turnkey solutions from specification of the right Slurrystore System to fulfill your needs to its final construction and service. Slurrystore construction is done in strict accordance with the procedures and policies of CST. All dealer construction crews are factory-trained to utilize the jack-build process and ensure the highest quality finished product.

StoragePro® Economic Analysis

The Storage Pro manure management planning program

values to livestock manure. The program then creates a

nutrients using a Slurrystore System. Contact your local authorized Slurrystore dealer for personalized analysis

for your operation and identify the value and savings.

uses a producer's unique costs and inputs to assign realistic

thorough economic analysis for storing and managing these

A Slurrystore is designed to meet individual owner needs. Each system has flexibility to address specific situations that any farm might experience. These include:

System Flexibility

- Expandability A Slurrystore can grow with you to accommodate increases in future ag nutrient volume or new regulations.
- **Cover Options** A roof or cover can be incorporated into a Slurrystore System's design, if needed.
- Smaller Footprint A smaller footprint and the ability to build vertically minimize the effect of rainfall accumulation compared to the surface area of a lagoon. That means lower volume to haul and minimized dilution of nutrients

- **Relocation** A Slurrystore can be dismantled and moved or sold.
- **Digester Applications** A Slurrystore may be used in anaerobic digester applications. CST has been designing and manufacturing digester tanks and covers for over 35 years with applications around the world. CST works with process engineers to construct low maintenance structures that provide longevity and return on investment.

## Now's the Time for Slurrystore

When it comes to agricultural nutrient storage, you get the highest engineered quality, best service, longest product life and greatest value from Slurrystore Systems. Producers are getting more than just storage, they are investing in a nutrient tank. For today's dairy and livestock operations, there simply is no better storage choice than Slurrystore for long-term storage, environmental stewardship and nutrient value.

To learn more contact your local authorized Slurrystore dealer for an on-farm analysis and quote, visit cstindustries.com or call 844-44-TANKS.

CST Industries | 345 Harvestore Dr. | DeKalb, IL 60115 USA | Phone: 844-44-TANKS | www.cstindustries.com ©2017 CST Industries, Inc. Slurrystore and StoragePro are registered trademarks and Vitrium and Edgecoat II are trademarks of CST Industries, Inc.













Pump Systems (4 Nozzles Total)

HOG APPLICATIONS DAIRY APPLICATIONS Model 1400 Side Mount Up to 101 Foot Diameter (30 Meters) Up to 120 Foot Diameter (36 Meters) With Single Nozzle System 101 to 140 Foot Diameter (30 to 42 Meters) 120 to 151 Foot Diameter (36 to 46 Meters) High Flow Model 2400 Pump With 2 Nozzle System Up to 204 Foot Diameter (62 Meters) 2 High Flow Model 2400 Up to 204 Foot Diameter (62 Meters)









## Optimized and Secure Agricultural Nutrient Management

A byproduct of every dairy, beef, hog and poultry operation is animal waste. Its proper containment and management are two important issues facing today's producers. Secure storage means a protected environment. Optimized management means turning this byproduct into a valuable nutrient resource that can add to a bottom line.

A Slurrystore® System is a fully engineered storage and agitation system for optimized and secure agricultural nutrient management.

## Consistent Nutrient Value – Agitation Makes the Difference

The ability to agitate its full contents makes a Slurrystore System much different from lagoons or concrete pits. Neither of these storage options is better at achieving consistent nutrient balance than Slurrystore. Using its superior center agitation system, a Slurrystore evenly blends and homogenizes ag nutrients to maximize overall value for crop production needs. This full blending and homogenizing allows better plant nutrient management to help maximize yields while lowering fertilizer costs.

Research shows that on average about 30 tons of dairy cow manure – the amount produced by 1.5 mature cows consuming a balanced ration over a year's time – can provide the total nitrogen needed to grow 150 bushels of corn. Depending on market conditions, 1,000 gallons of manure can range in price from \$40 to \$60.

# >> Environmentally Sound

A Slurrystore is an above-ground, positive containment structure engineered to the highest standards. With greater environmental concern and stricter governmental regulations on the horizon, Slurrystore is clearly the best choice for environmentally sound manure management.

- A Slurrystore is designed and constructed using bolted glass-fused-to-steel panels for secure storage and high
- As above-ground, positive containment, a Slurrystore minimizes the danger of run-off, leaching and ground water contamination compared to earthen lagoons, concrete pits or other storage methods
- Odor control also makes Slurrystore environmentally friendly. Since a Slurrystore is above ground, a "chimney effect" is created, releasing any odors above ground level into higher air currents. When unagitated, it will often form a crust on the top layer sealing odors in while bottom filling reduces the amount of surface disturbance.

## Regulation Ready

Slurrystore Systems are ready for existing and new regulations.

- NRCS approved
- EQIP qualified
- Designed for North American climate range
- Can be engineered for specific locations
- Solution for seasonal application restrictions

## >> Odor Management

Slurrystore Systems offer engineered solutions to help reduce odor problems compared to other storage methods.

- Less exposed surface area
- Above ground design creates "chimney effect" to lift odors above ground level
- Bottom filling reduces surface disturbance
- A roof or cover can be incorporated into design

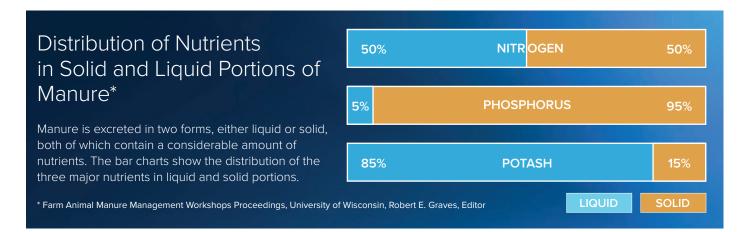
### A Lifetime of Value

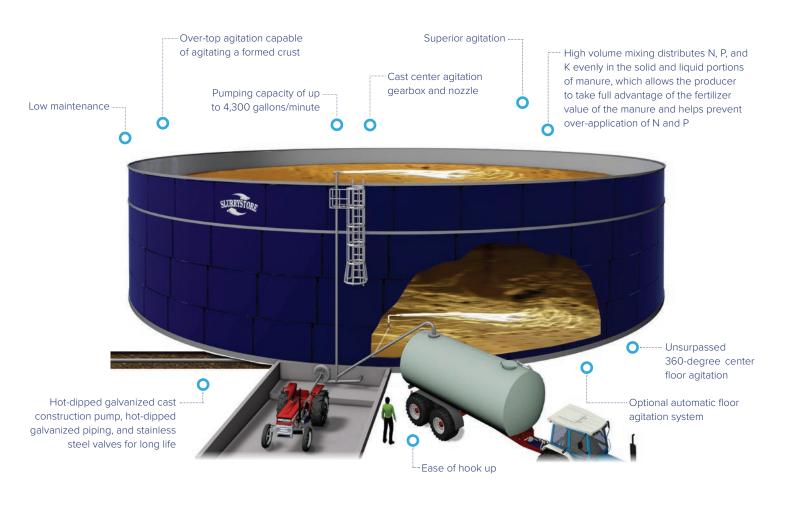
Not all tanks are created equal! CST's glass-fused-to-steel (porcelain enamel) features Vitrium™ coating enhanced with titanium dioxide (TiO2) and Edgecoat II™ technology to ensure maximum corrosion resistance and the longest life span available.

All Slurrystore tanks are manufactured exclusively in the USA with only USA steel and supported by the world's most experienced local authorized dealer network.

Why bother with excellent agitation?







360-degree Bottom Center Agitation with capacities up to 4,300 gallons per minute

# Using our Slurrystore Side-mount Pump we can clean the structure to the floor and fill our 3,000-gallon spreader in 1/2 minutes. Kooser Farms, LLC

# Agitation and Nutrient Balance

Nutrient consistency is important in determining overall nutrient value when land-applied for crop production. Used as a commercial fertilizer replacement or supplement, a consistent mix of ag nutrients eliminates guesswork and over - or under-application. The ultimate benefit is fertilizer savings and increased productivity. The graphic below illustrates nutrient concentration before and after agitation.

#### **BEFORE AGITATION** AFTER AGITATION **Nutrient Concentration is Inconsistent Nutrient Concentration is Homogeneous**



PROPER AGITATION = MAXIMUM NUTRIENT CONSISTENCY = SAVINGS

#### **Pumps and Nozzles**

Slurrystore pump and nozzle options make the tough job of manure agitation easier, faster and safer. They are designed for efficient operation, quick adjustment and minimum maintenance.

- Achieve powerful nutrient stream
- Adjustment capabilities
- Convenience
- Consistent mixing

#### **Pump Options**

Slurrystore Systems offer pump options that are designed and engineered to meet the agitation needs of each structure. Pump features include:

- Cast iron construction
- 2000 to 4000 GPM (gal./min.)
- 90 to 194 feet of head pressure
- Ability to agitate up to 2 million gallons with one pump

up to 120' in diameter







>>> Triple nozzle



**Nozzle Options** 





**Slurrystore Agitation** System

Agitation components include

C. Deluxe over-the-top nozzle D. Over-the-top piping

E. Side-mount pump