



DUPERON®

# DUAL AUGER SYSTEM

A SOLUTION FOR FLUSHABLE WIPES

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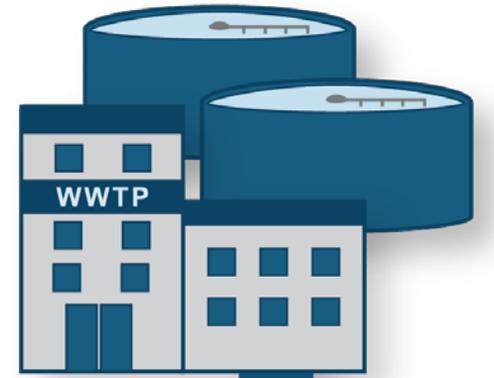
# AGENDA

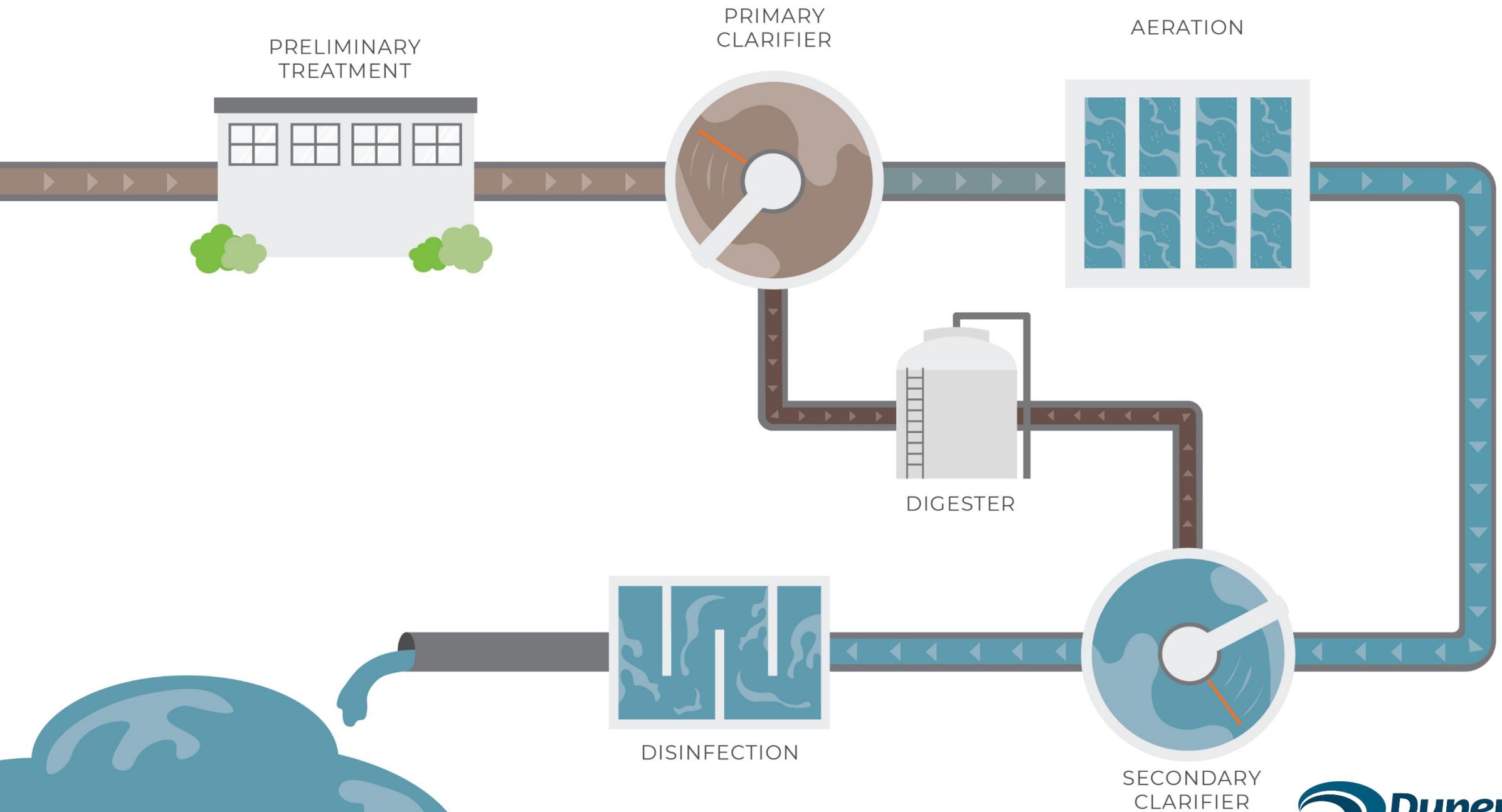
- Introduction
- Current Strategies
- A New Option



# "flushable" wipes wreak havoc

in collection systems  
& wastewater treatment plants







# EXISTING STRATEGIES:

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- Grinders/Chopper Pumps
- Screens/Vertical Augers in Large Lift Stations
- Manual Removal

# GRINDERS & CHOPPER PUMPS



# STRATEGIES

## VERTICAL SCREW CONVEYOR

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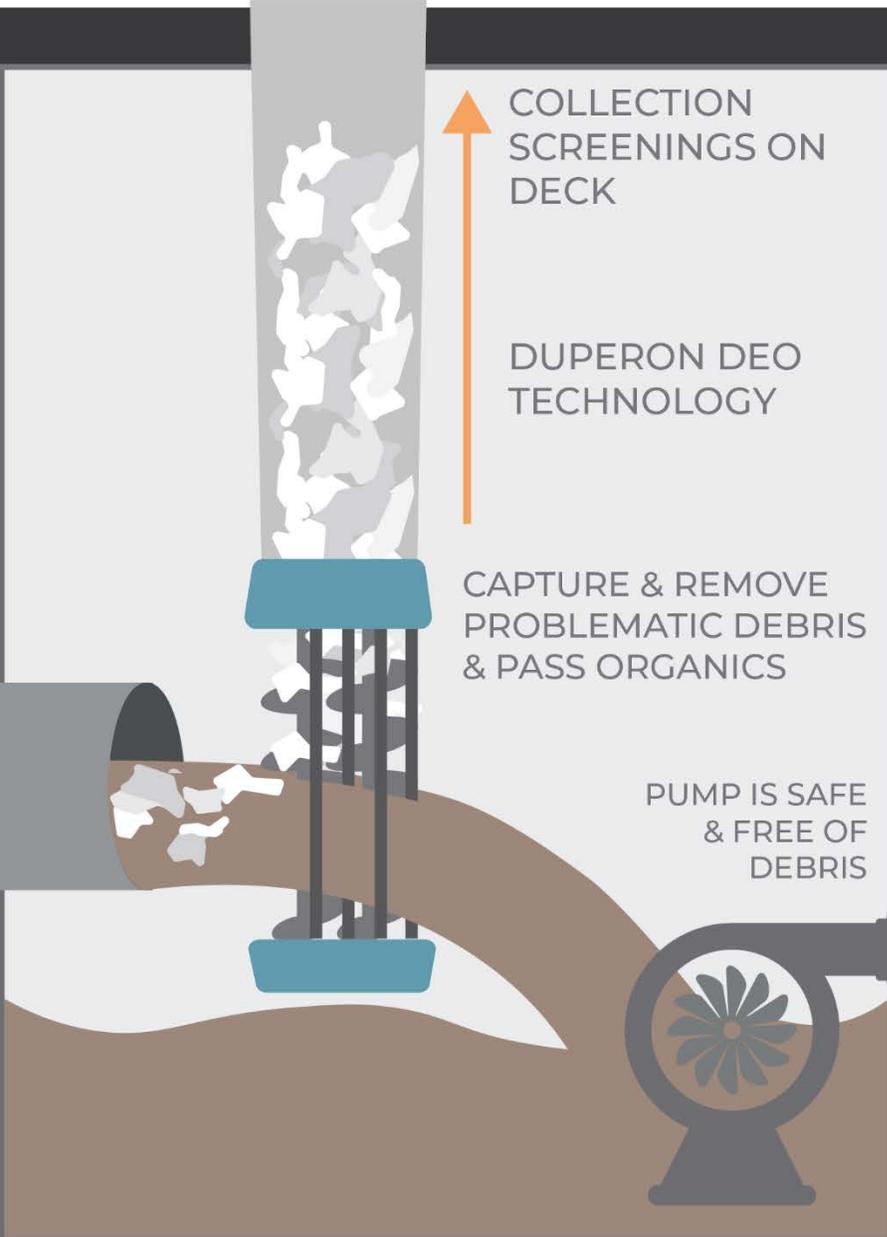


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## MANUAL PUMP CLEANOUT

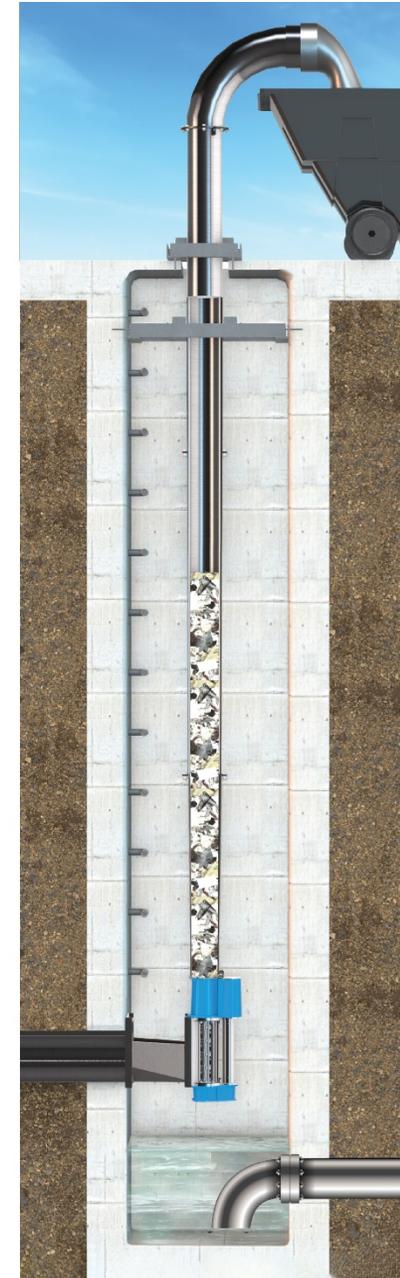
STRATEGIES

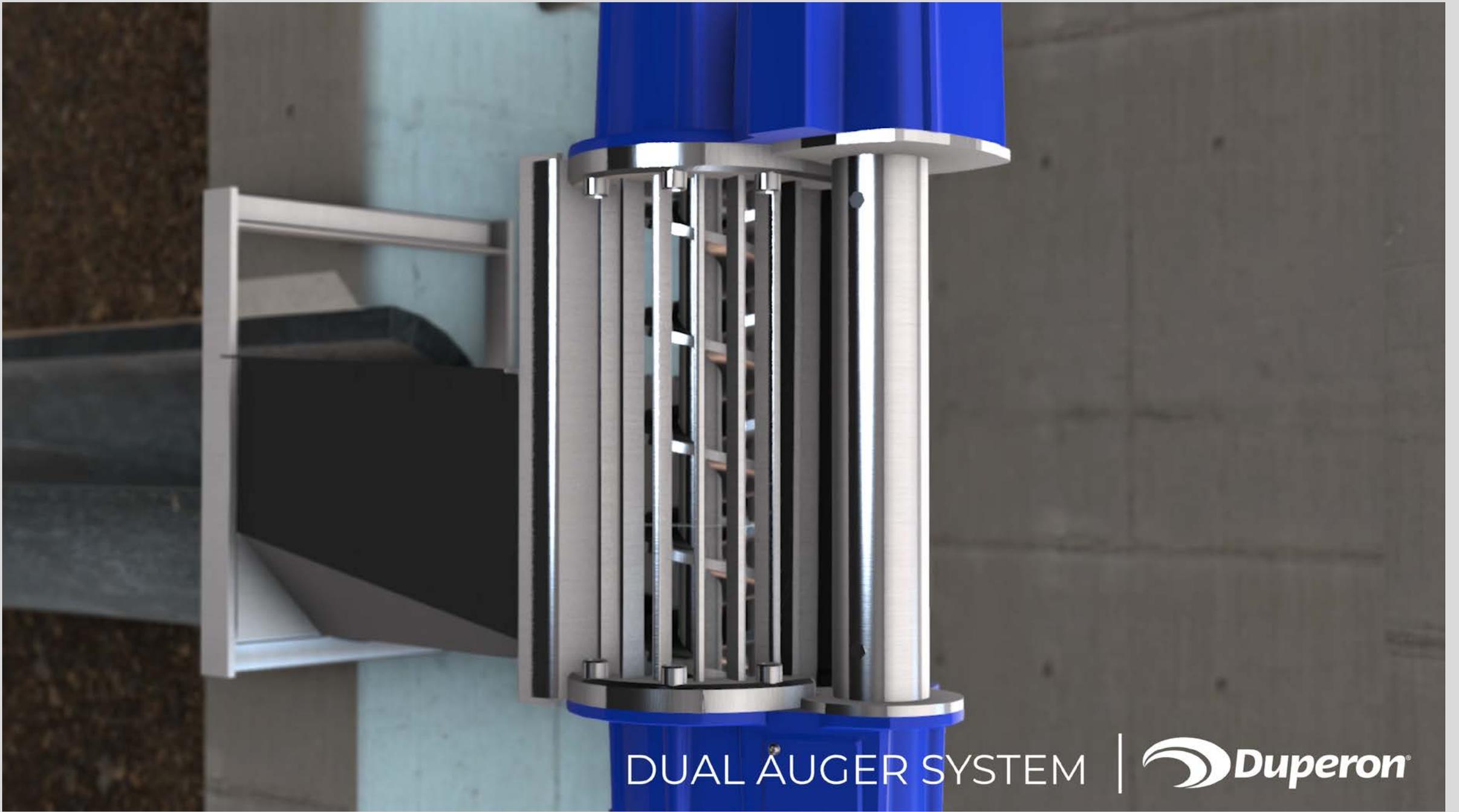
# THEORY OF DESIGN



## THREE PROVEN DUPERON TECHNOLOGIES:

1. Positive displacement dual augers
2. Brushless self-cleaning
3. Compaction & transportation using Discharge Extension Option





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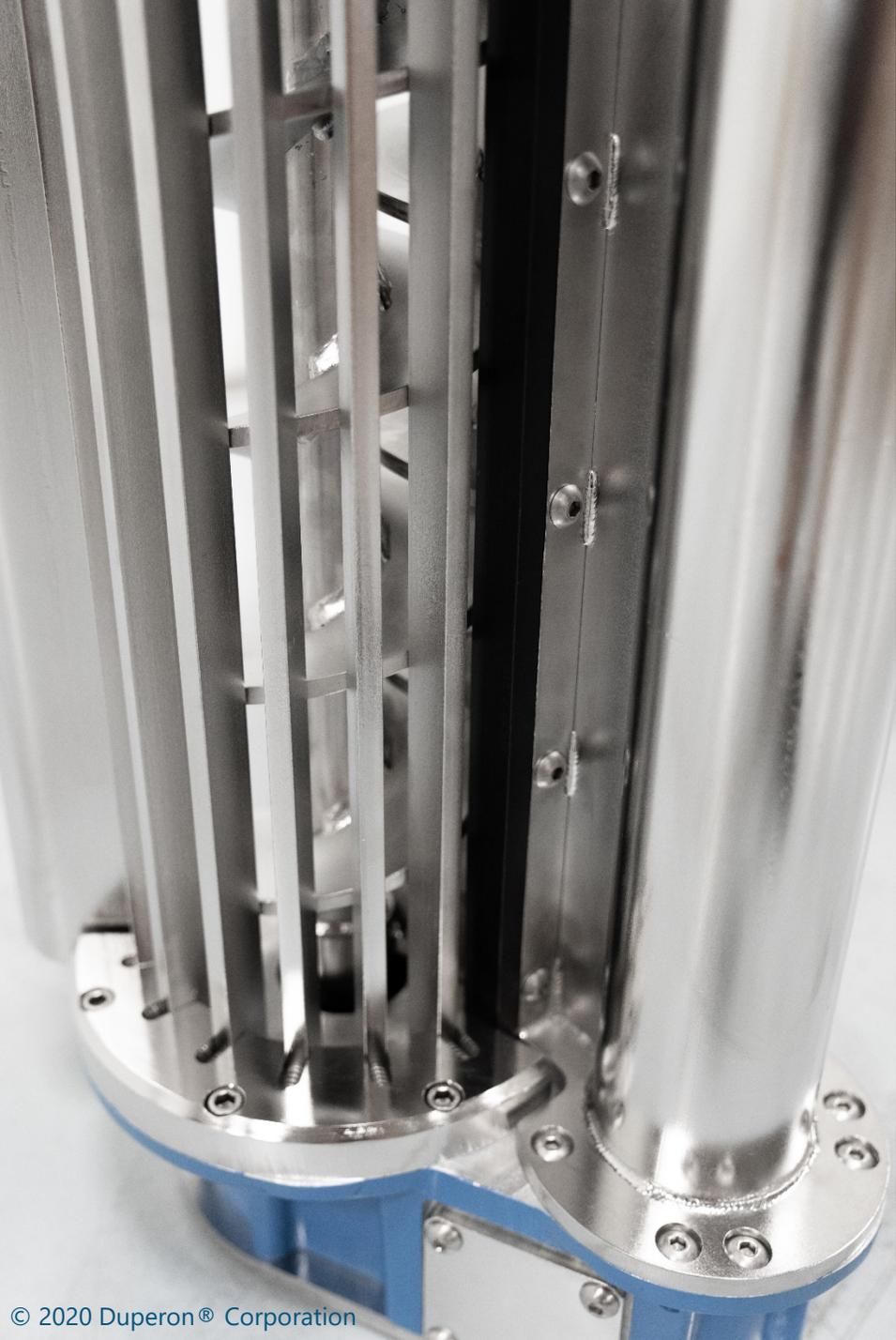
POSITIVE DISPLACEMENT

# DUAL AUGERS

- 304 Stainless steel
- Small pitch & close tolerance
- High torque gear box

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# BRUSHLESS SELF-CLEANING

- Intimate contact between augers & bars
- Dual augers clean each other

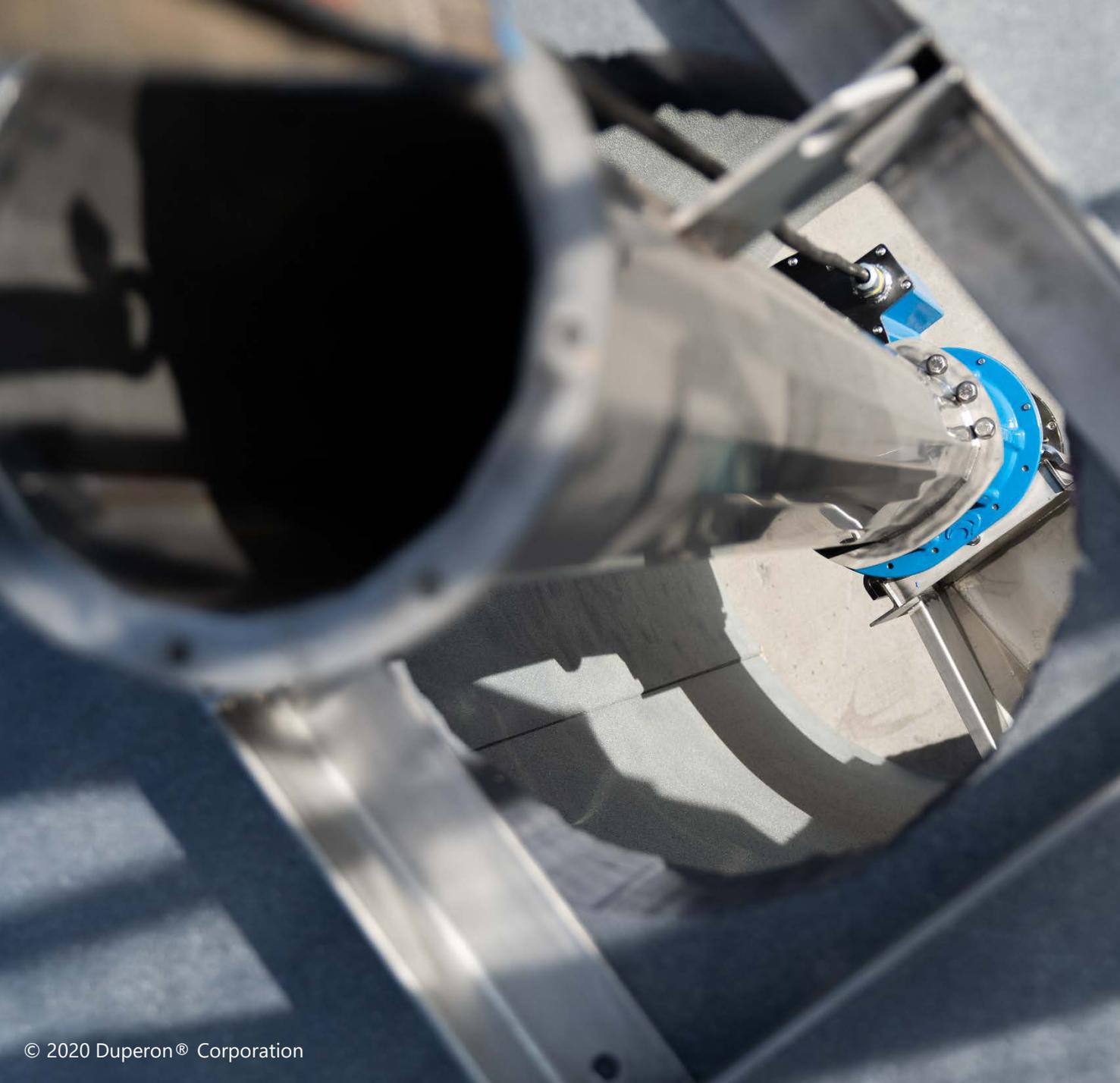
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## BRUSHLESS SELF-CLEANING

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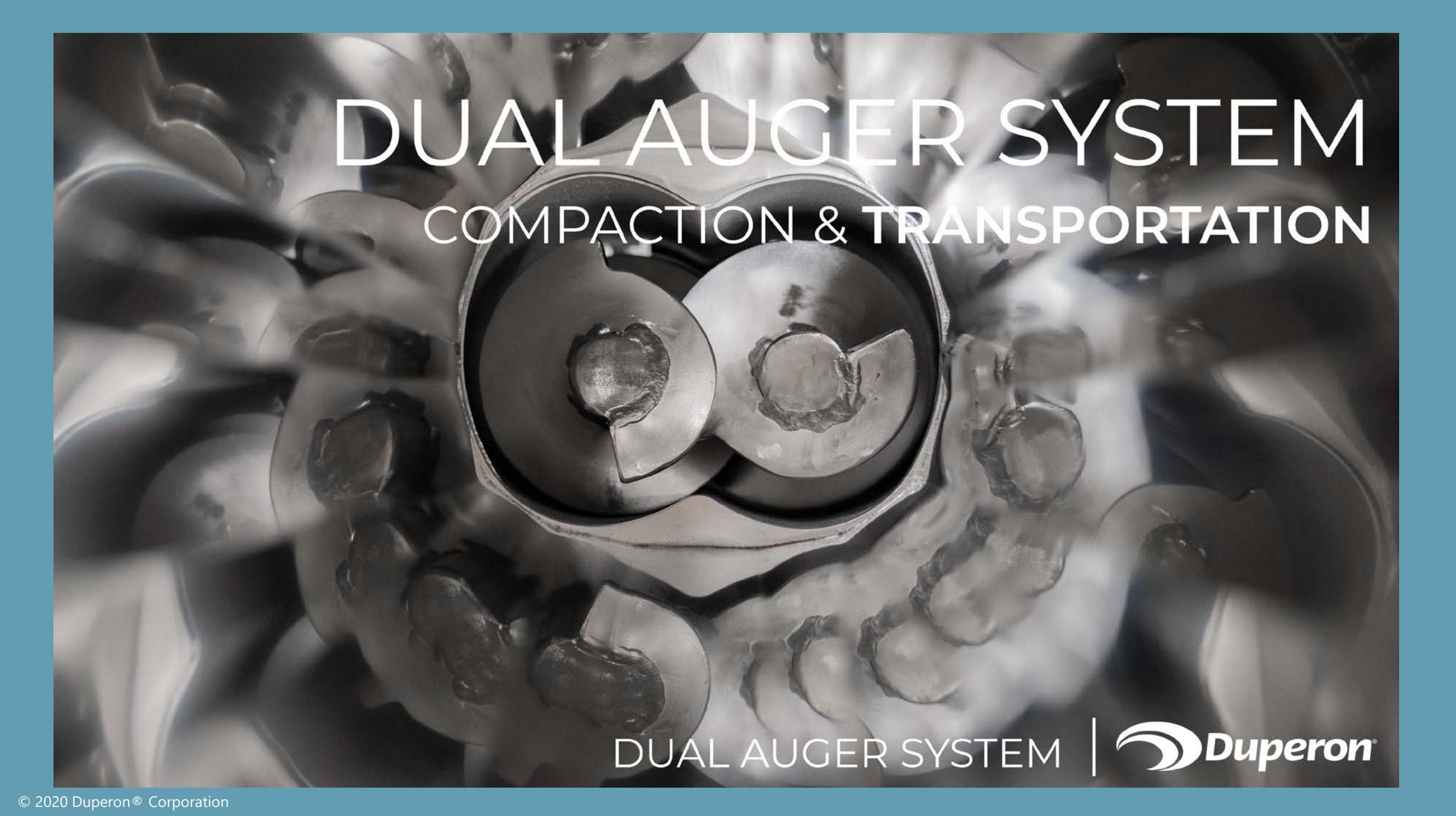




# COMPACTION & TRANSPORTATION

Solids transport is accomplished with the Discharge Extension Option that transports solids without the need for long screw conveyors



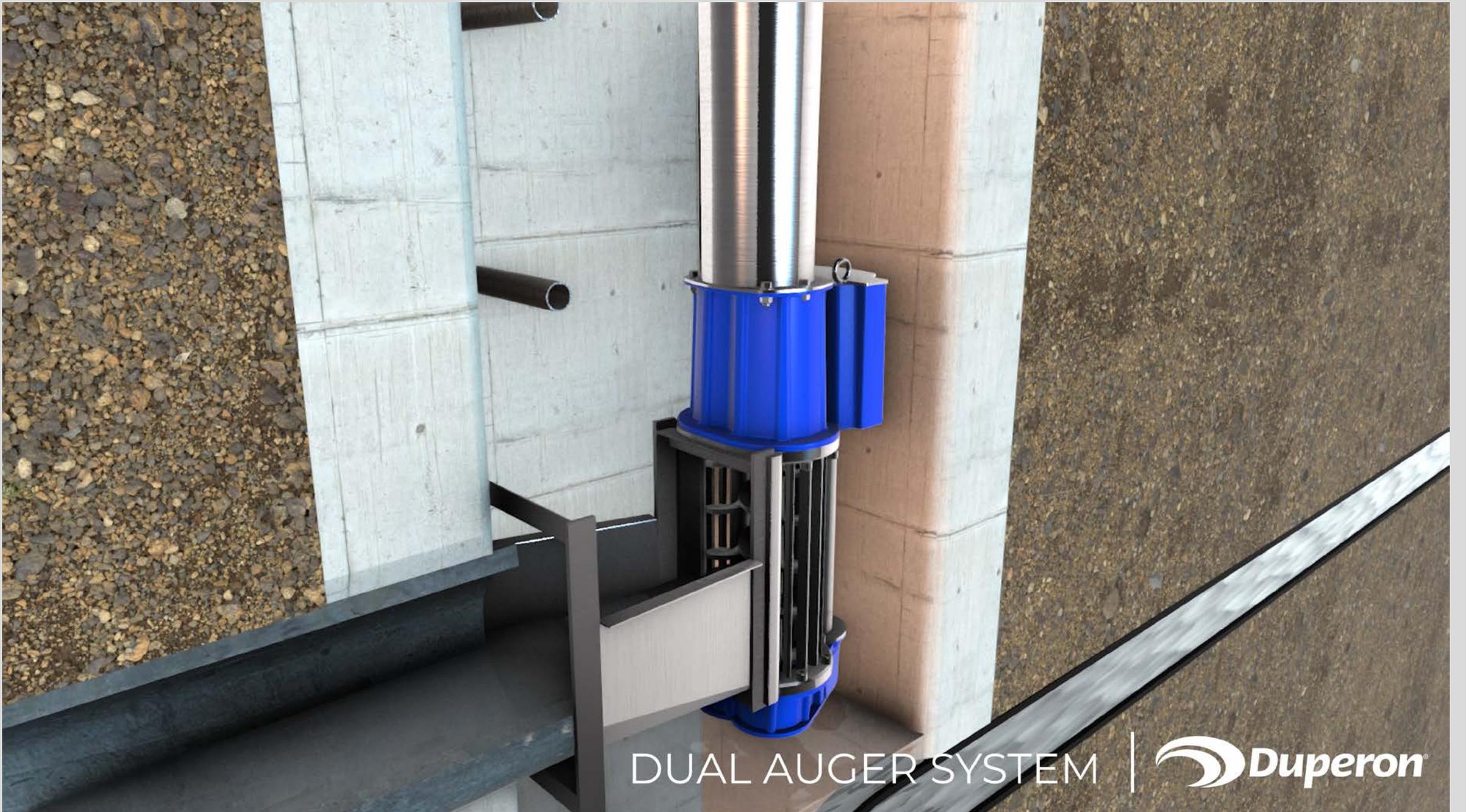


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## COMPACTION & TRANSPORTATION

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## THE DUPERON DUAL AUGER SYSTEM

**DRASTICALLY REDUCES CLOGGED PUMPS**

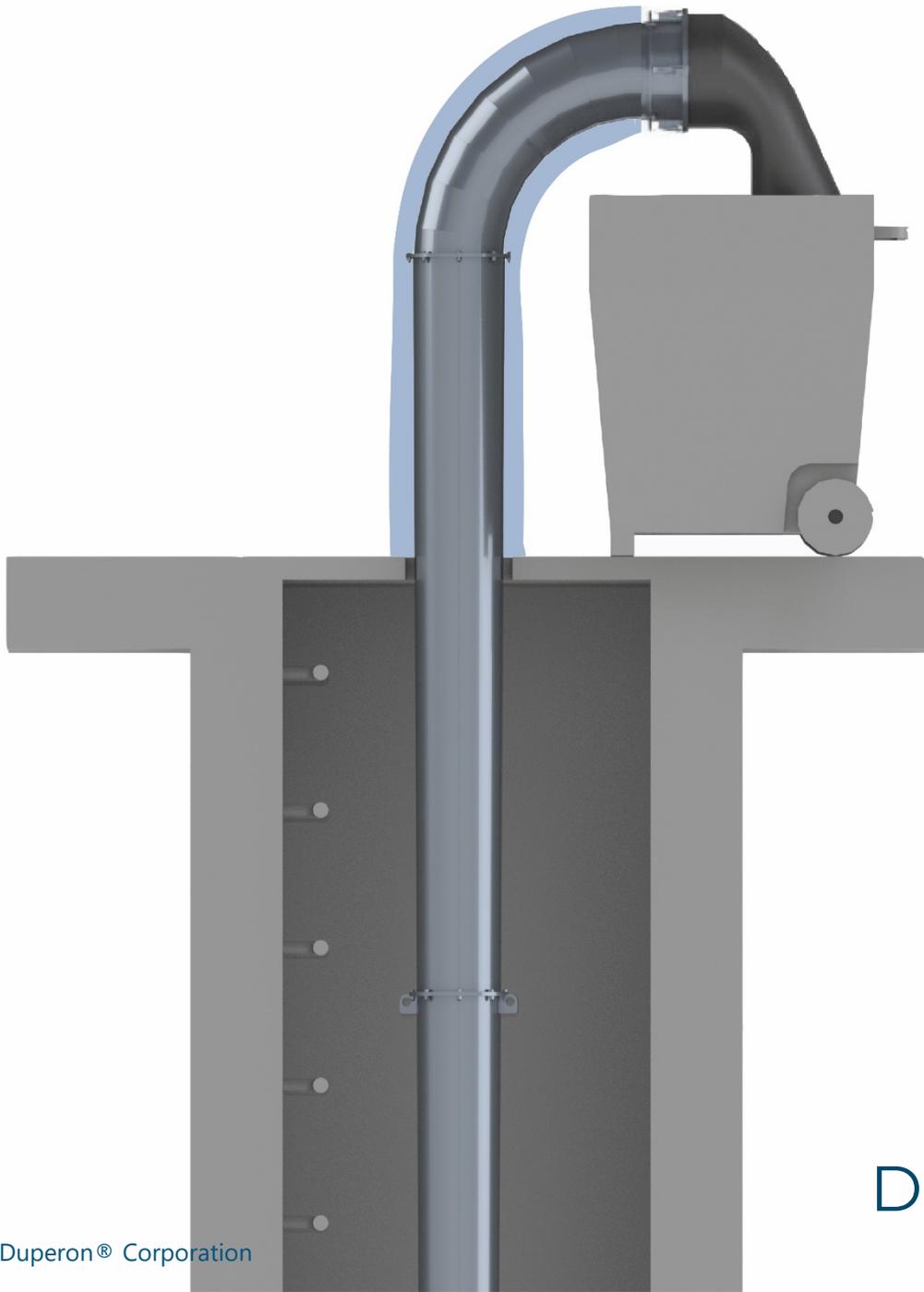
**A SIMPLE 5 IN 1 SYSTEM**

**ADDRESSES THE PROBLEM AT ITS SOURCE**

**A COMPACT FOOTPRINT**

**ELIMINATES EMERGENCY MAINTENANCE**





# CONFIGURATION & INSTALLATION OPTIONS

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**BELOW DECK**  
INSTALLATION

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DUAL AUGER SYSTEM  
**ABOVE DECK**  
INSTALLATION

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# DUAL AUGER SYSTEM SIMPLE INSTALLATION

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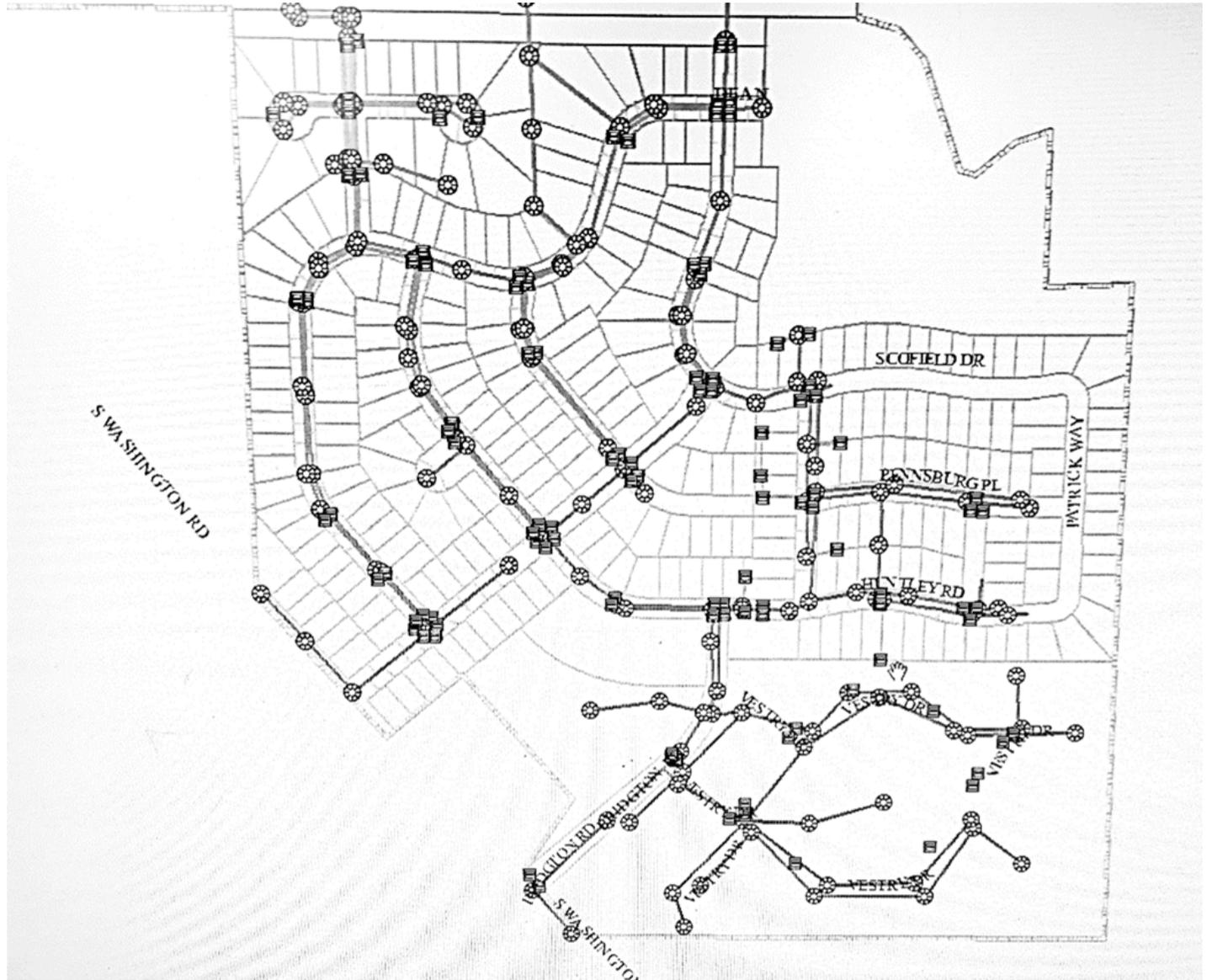
# DRAKE PUMP STATION SAGINAW, MI

# ALPHA SITE

FLOW:  
*0.1 MGD*

CONFIGURATION:  
*26 ft vertical discharge chute  
+ 100° elbow*

CHALLENGE:  
*Site had chronic pump cleanouts  
2-3x a week*



# ALPHA TESTING

## INSTALLATION

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We installed our factory tested unit in a 30 ft deep 19 in manhole with 50 gpm average flow



# ALPHA TESTING



## OVERFLOW TESTING

- Unit fully operational
- Did not charge the sewer



# ALPHA TESTING

## DEBRIS REMOVAL

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# POTENTIAL RETURN ON INVESTMENT

## **\$40,772 ANNUAL LABOR SAVINGS**

*\$32.67\* x 2 people x 4 hours each x 3x/week x 52 weeks/year*

## **\$842 ANNUAL TRANSPORTATION SAVINGS**

*10 miles r/t to site 3x per week x \$0.54 x 52 weeks*

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## **\$41,614 TOTAL ANNUAL MAINTENANCE SAVINGS**

*Added value: Giving back 1,248 productive hours annually*

*\*Median Fully-loaded Wastewater Operator Rate for MI Great Lakes Bay Region*

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# CONCLUSION:

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## THE DUPERON DUAL AUGER SYSTEM

DRASTICALLY REDUCES CLOGGED PUMPS

A SIMPLE 5 IN 1 SYSTEM

ADDRESSES THE PROBLEM AT ITS SOURCE

A COMPACT FOOTPRINT

ELIMINATES EMERGENCY MAINTENANCE

# A PROVEN INDUSTRY PARTNER



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# QUESTIONS & FEEDBACK

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