



***Reclaim Your Water
& Your Profits***

Education Session Hosts



Dan St-Jacques

Marketing Manager



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About Hoffman innovateIT

- 55+ years owning and operating car washes
- As volume increased, we needed durable equipment that delivered consistent, repeatable quality
- Started developing our own solutions and created Hoffman innovateIT in 2018

Gavin Klami

Reclaim Overview

What Is Water Reclaim?



The process of recycling and treating used water for reuse, reducing the demand for fresh water

Purposes of Reclaim Systems



Sustainability

Conserves local resources by reducing fresh water consumption



Savings

Lowers water and sewer expenses through effective water reuse

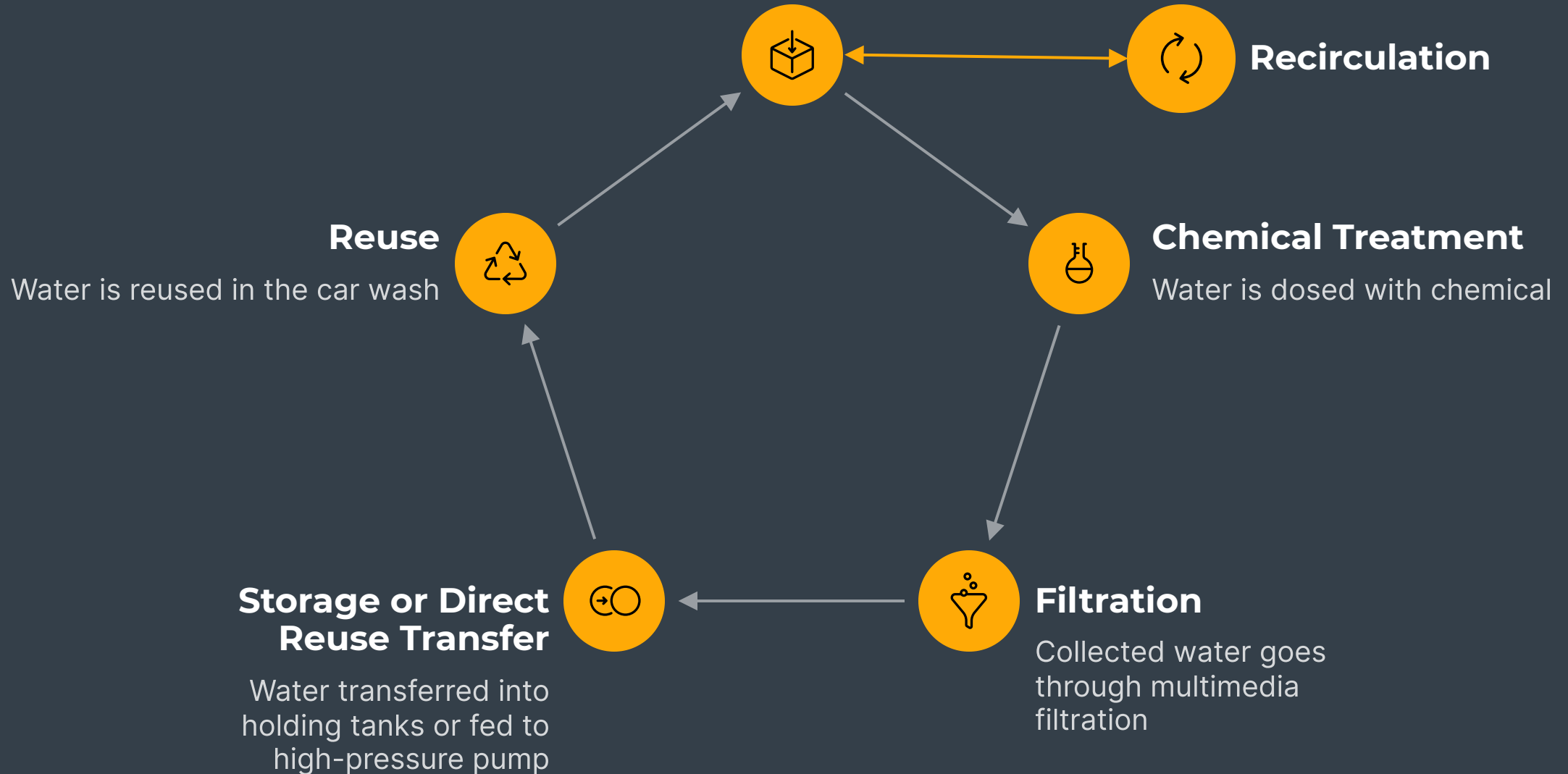


Efficiency

Provides reliable, high-quality recycled water for use in the tunnel

Collection

Used wash water collected in wash pit

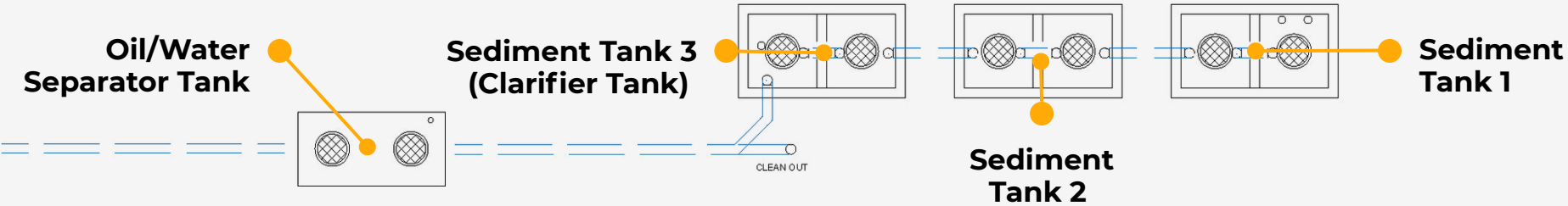
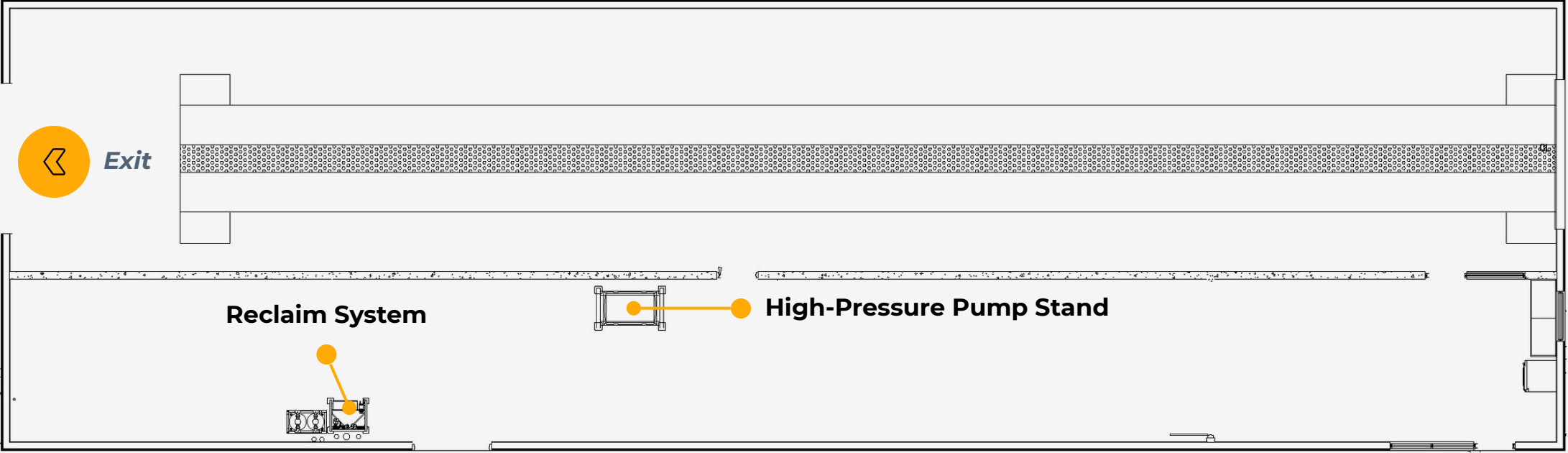


Reclaim Uses



System Integration

Integration - Site Layout

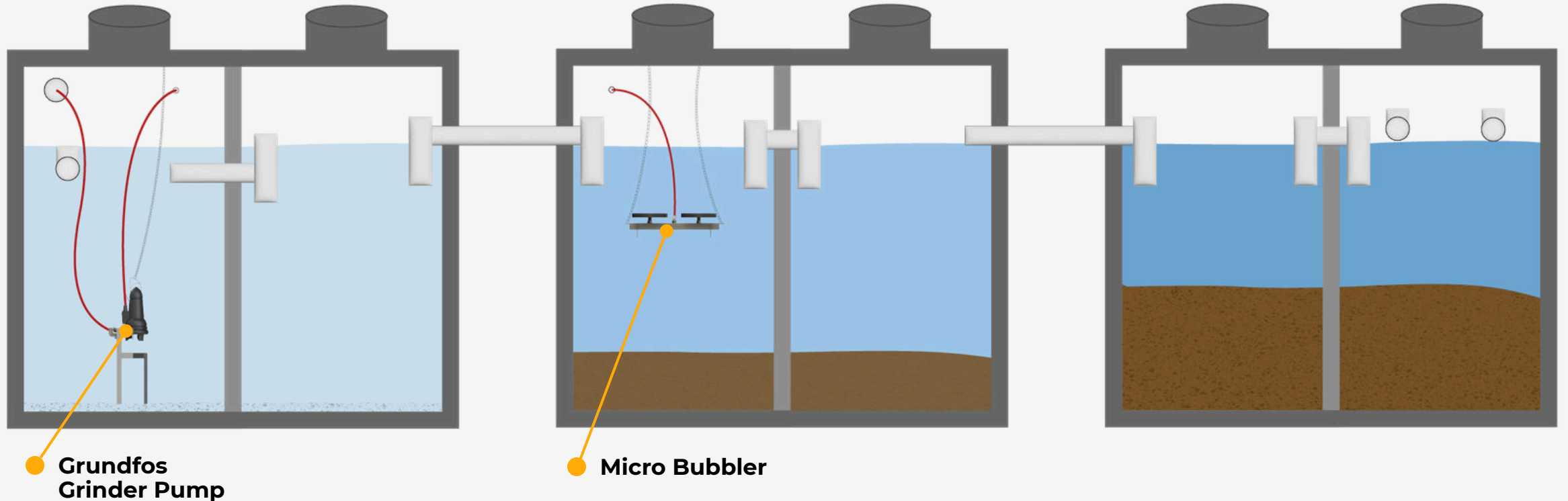


Integration - In-Ground Sediment Tanks

Sediment Tank 3
(Clarifier Tank)

Sediment Tank 2

Sediment Tank 1



Integration - In-Ground Sediment Tanks



Sediment Tank 1

Initial Collection

Collects used wash water, allowing heavy particles to settle at the bottom.

Sediment Tank 2

Removal of Finer Particles

Receives water from Tank 1, where finer particles settle. Includes Micro Bubbler for improved aeration and odor control.

Sediment Tank 3

Clarifier Tank

Further clarifies water from Tank 2, removing any remaining fine particles. Grundfos Grinder Pump powers Reclaim System.

System Comparison

Reclaim System Comparison

	Typical Systems	Hoffman innovateIT
Process Pump	Surface Mount Suction Pump	Grundfos Grinder Pump
Filtration System	Filter Basket / Cyclonic / Bio / Sand	Auto Backflushing Multimedia Filter
Odor Control	Ozone / UV / Chemical / Aeration	Aeration & Chemical
Control System	Limited Diagnostics/System Feedback	HMI & PLC Driven Controller

Reclaim Challenges



Odors



Water Usage



Clogged Nozzles

Hoffman innovateIT Reclaim Solutions

Challenge	Solution	Benefit
Odors	Adjustable Dosing	Operator adjustable chemical dosing compensates for changes in water quality, wash volume, and the amount of dirt being washed from vehicles, consistently eliminating odors
Water Usage	High-Efficiency Production	Only treats the water you plan to re-use in the tunnel, reducing the need for large reclaim storage tanks while conserving chemical and electrical energy usage
Clogged Nozzles	High-Performance Filtration	High-performance multimedia filters remove over 99% of particles >10 micron, allowing the system to produce high-quality water that minimizes clogged nozzles

Shane Groff

Reclaim Your Profits

Calculating Water Use

Current Water Use

Water Use Per Car

Determined based on metered water use

X

**# of Cars Washed
Per Day**

X

**Days of Operation
Per Year**



Water & Sewer Costs

Avg. Gallons Per Car

50

Avg. Water & Sewer \$/Gal

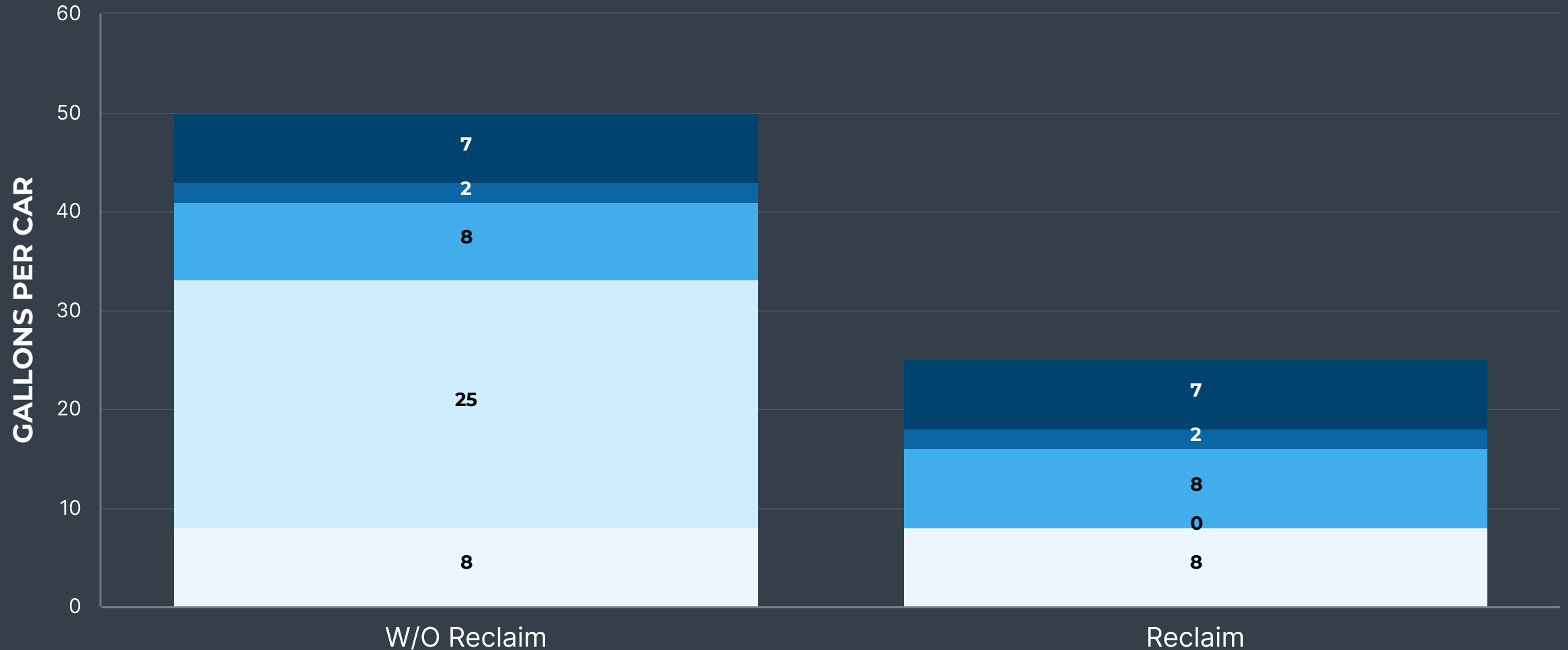
\$0.008

Avg. Water & Sewer Cost Per Car

\$0.30

**Data Source: Hoffman Car Wash Tunnel Locations*

Freshwater Usage With or Without Reclaim



● Cleaning Detergents ● High-Pressure Wash ● First Rinse ● Wax and Sealer ● Final Rinse

High-Pressure Cleaning

blastIT High-Pressure Arch



Water Savings

	Store 1	Store 2	Store 1	Store 2
Water & Sewer \$/Gallon	\$0.008	\$0.008	\$0.014	\$0.014
Cars Per Year	100,000	350,000	100,000	350,000
Gallons Per Car (w/o Reclaim)	50	50	50	50
Water/Sewer Cost	\$40,000	\$140,000	\$70,000	\$245,000
Gallons Per Car (with Reclaim)	25	25	25	25
Water Sewer Cost	\$20,000	\$70,000	\$35,000	\$122,500
Annual Savings	\$20,000	\$70,000	\$35,000	\$122,500

Installation

Typical Systems	Hoffman innovateIT
Multiple Schedule 80 pipes need to be installed underground and carefully backfilled to prevent cracking	Single 6" chase pipe used for Grundfos Grinder Pump hose, electric, and air line, simplifying installation
Pipes must precisely installed through concrete in the backroom to connect to the filtration system	Allows for flexible positioning and placement
High complexity with specific dimensions required for proper connection	Simplified approach that reduces installation time and complexity

Installation

Typical Systems

-
- As many as 10 Schedule 80 pipes under the ground
- Backfilled and compacted carefully so they don't crack
- Come up through the concrete in the backroom at specific dimensions

Hoffman innovateIT

- Grundfos Grinder Pump placed in Clarifier Tank
- 6" chase pipe pull your pump hose and electric through it and air line
- Fast and easy
- Not complicated for installers
- If it's 2 or 4 feet doesn't matter
- 2" pressurized line from Grinder Pump
- Minimize costs



October 7-9

Booth 313

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Contact Us



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Q & A



Thank You!
