



EDUCATION SESSION

Solving Reclaim Headaches

Reclaim should be an asset,
not a daily source of frustration

Reclaim Headaches

Reclaim Headaches



Labor & Maintenance



Water Quality



Clogged Nozzles



Odor

Operators have gotten used
to these headaches —

but they shouldn't have to.

**“My managers shouldn't
have to touch the
system. They shouldn't
even know it exists.”**



Nathan Bertsch
Chief Innovation Officer

What We Built

A Reclaim System that works better,
requires less, and delivers more.



Our Approach

Our Approach

Headache	Our Solution
Labor & Maintenance	Simplified, durable design with fewer daily tasks
Water Quality & Clogged Nozzles	Direct media filtration
Odor	Chemical dosing

Daily Labor & Maintenance

Before (Traditional Reclaim Systems)

Prime pumps

Clean strainer basket

Check ozone generator

Clear nozzle clogs

After (Hoffman innovateIT Reclaim System)

Put system into 'Run' mode

Water Quality



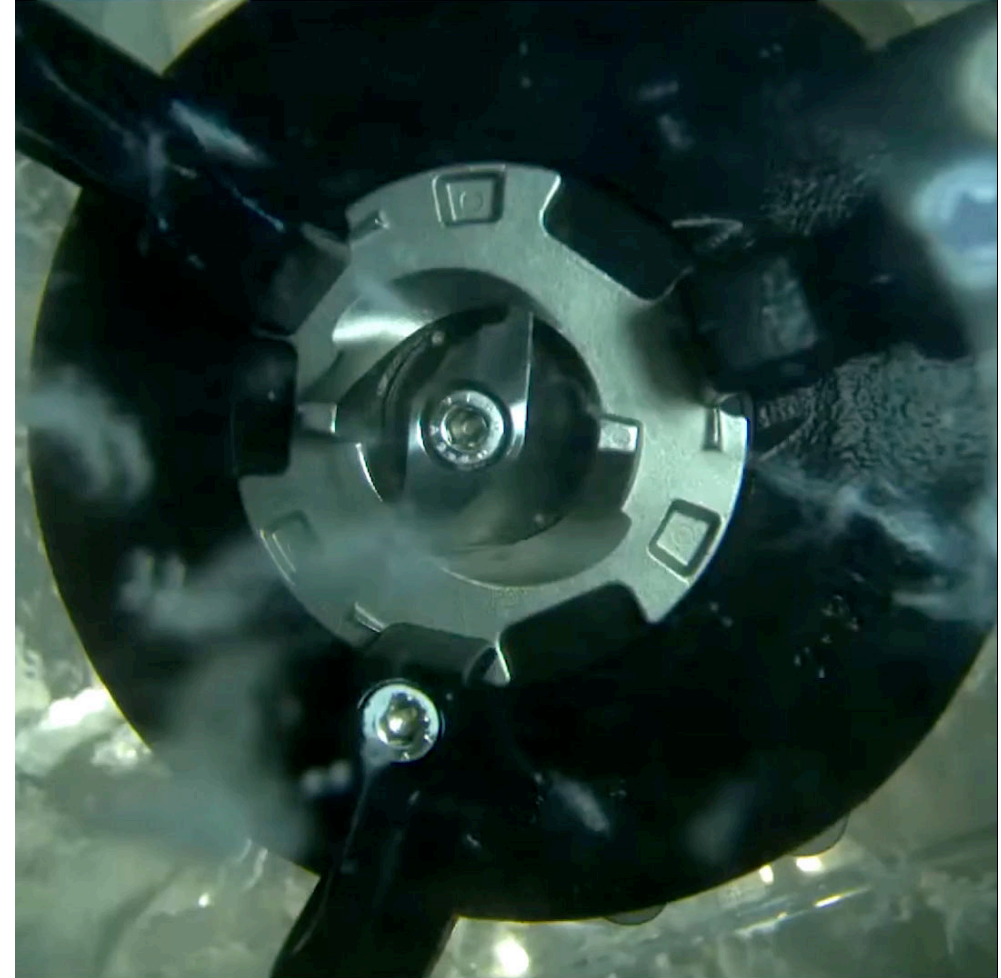
True Filtration

- High-capacity filter removes over 99% of particles over 10 microns
- Addresses neutrally buoyant particles that pass through centrifugal separators, reducing clogged nozzles
- Proprietary media blend and automatic flushing of the system reduce water usage
- Maximizes usage for high-pressure functions

Water Quality

Grundfos SEG Pump

- Replaces the need for a strainer basket, eliminating daily maintenance
- Prevents any foreign object from clogging the filter or lines
- Designed to handle "flushable materials" such as cloth, wood chips, paper, and plastic
- Mounted to a stand to reduce the possibility of ingesting non-floating materials that could damage the pump



Odor Control

Typical Systems	
✗	Short lifespan, often replaced yearly
✗	Loses effectiveness quickly in reclaim tanks
✗	Dangerous to handle and monitor
✗	Difficult to know if it's working
✗	Ongoing costs for generator replacement

Our Solution	
✓	Long-lasting dosing with consistent results
✓	Maintains presense in system with longer half-life
✓	Safer to manage, easier to regulate
✓	Operator-adjustable chemical delivery
✓	Less maintenance, no generators required

Odor Control



Micro Bubbler

- Increases dissolved oxygen levels in the water circulating in underground tank system

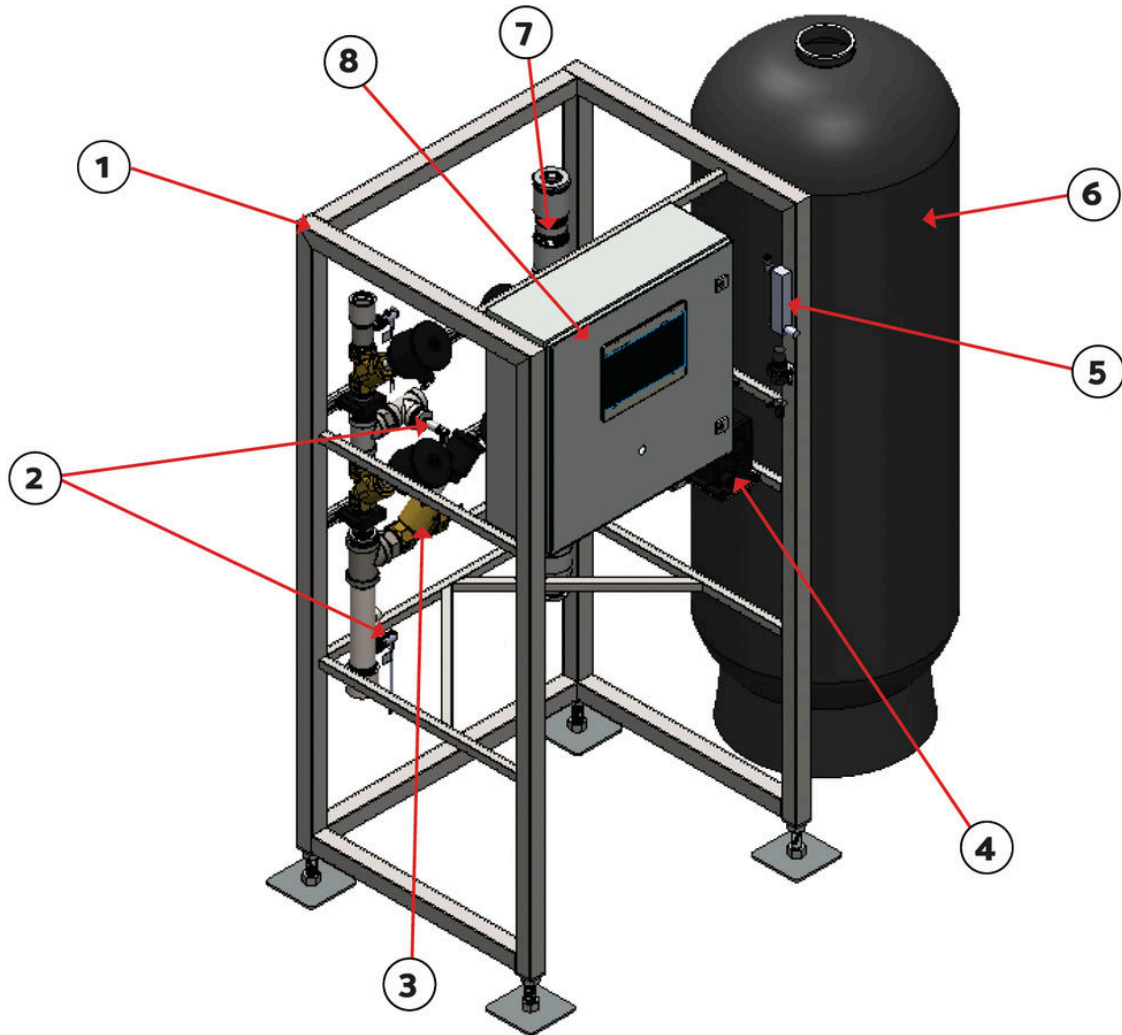


Dosing Pump

- Injects chemical oxidizer into reclaim flow
- Operator-adjustable dosing from HMI
- 0.25-1 gallon of treatIT chemical used per day (site dependent)

System Overview

System Overview - Components



- 1 Stainless Steel Frame
- 2 Process Sensors
- 3 Process Valves
- 4 Grundfos Dosing Pump
- 5 Air Flow Regulator
- 6 Multimedia Filter
- 7 Flow Regulators
- 8 Electrical Enclosure

System Overview - Configurations



Two sizes depending on your wash's reclaim needs

	Standard Flow	High Flow
Reclaim Production	25 GPM	50 GPM
Dimensions (Main Frame)	40" w x 73" h x 34" d	
Dimensions (Filter)	24" w x 72" h	30" w x 72" h

Collection

Used wash water collected in wash pit



Recirculation



Reuse

Water is reused in the car wash



Chemical Treatment

Water is dosed with chemical



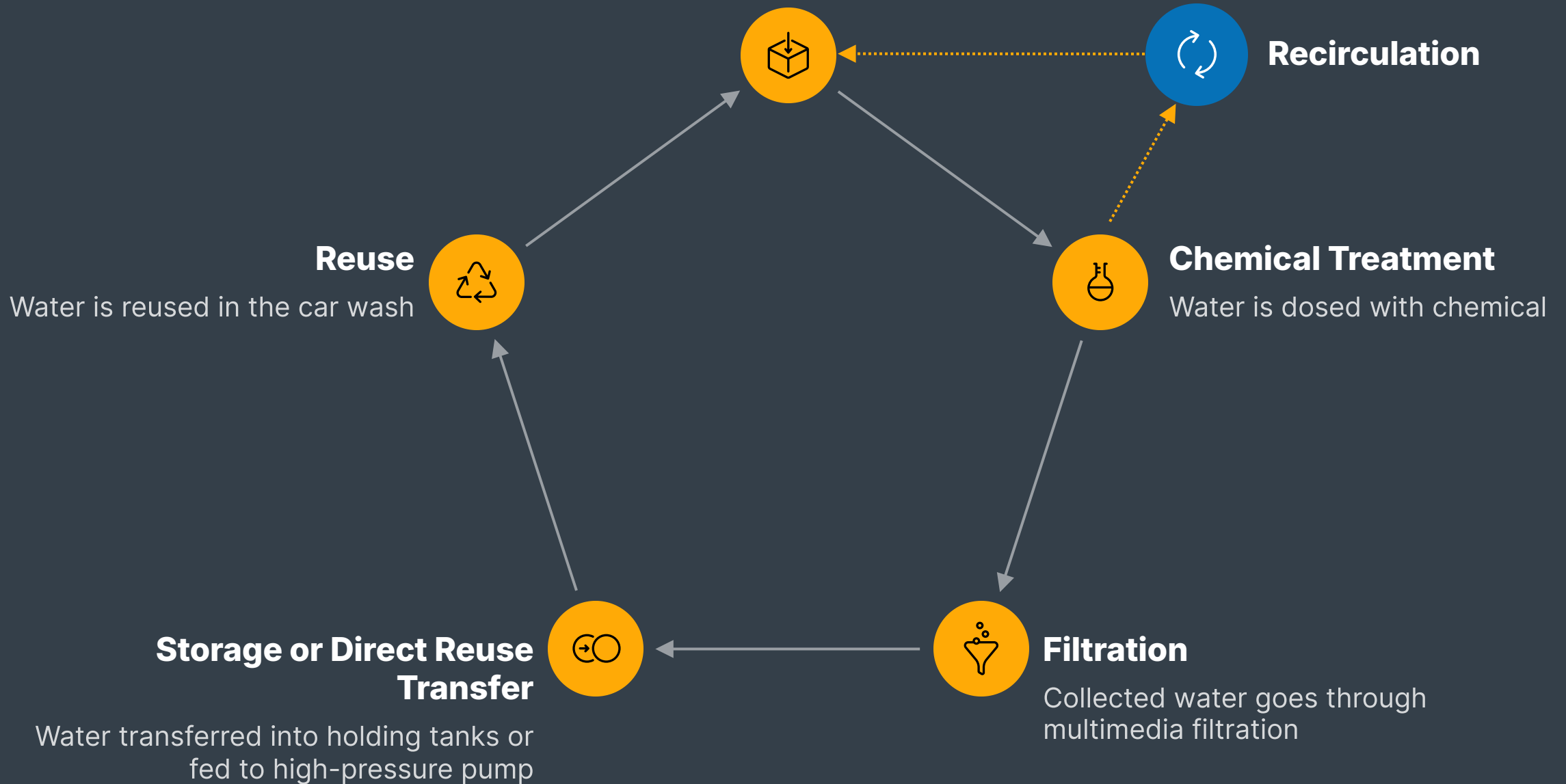
Storage or Direct Reuse Transfer

Water transferred into holding tanks or fed to high-pressure pump

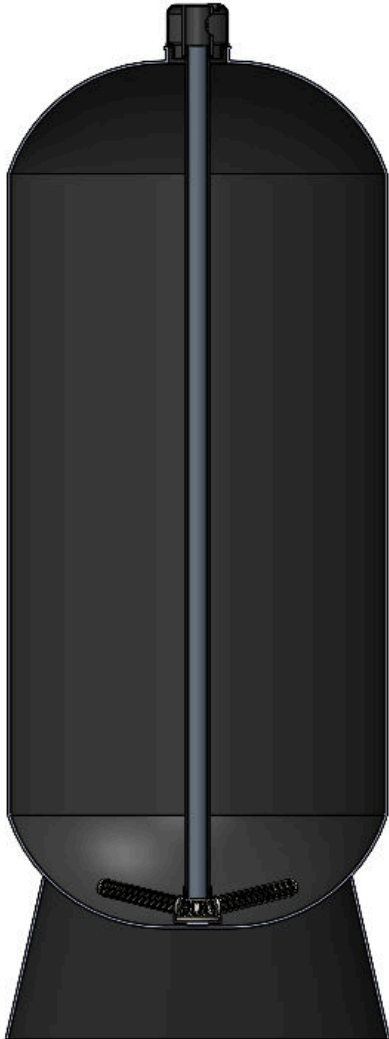


Filtration

Collected water goes through multimedia filtration



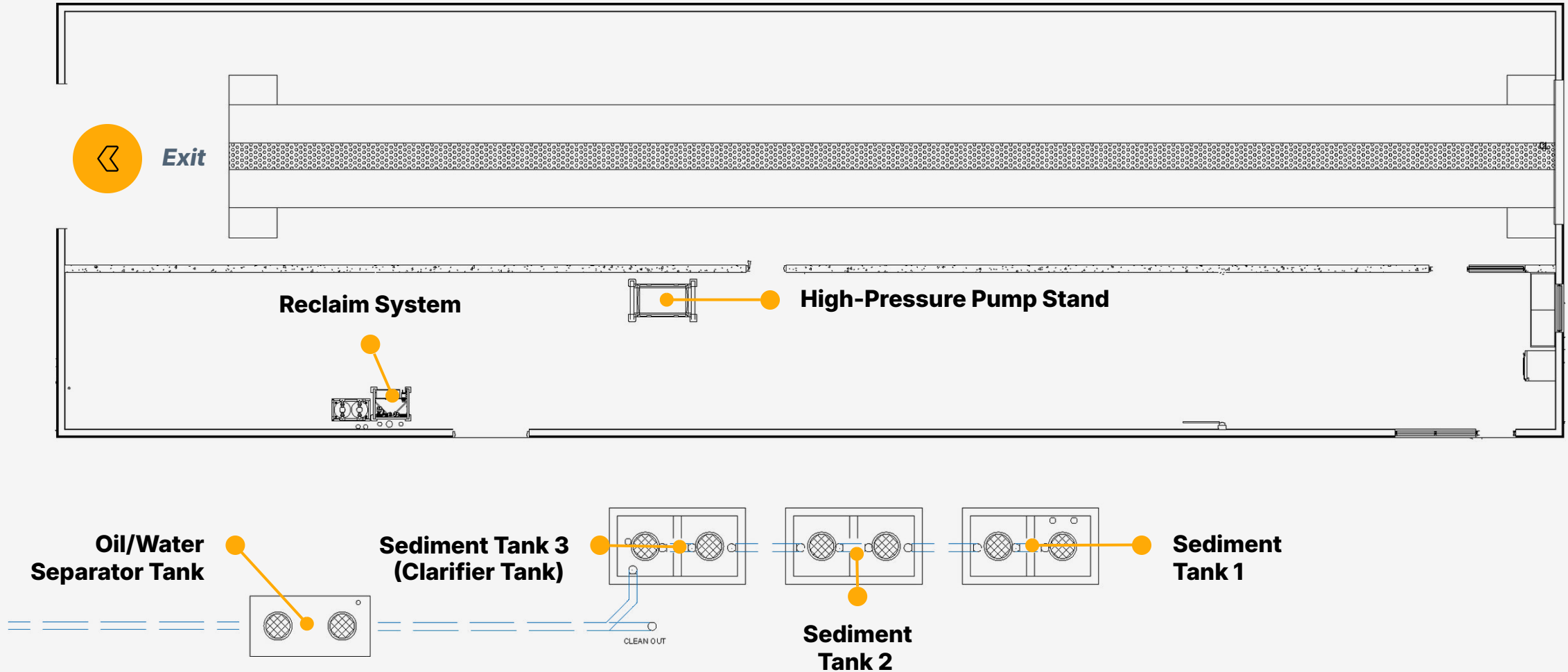
Filter Backflush



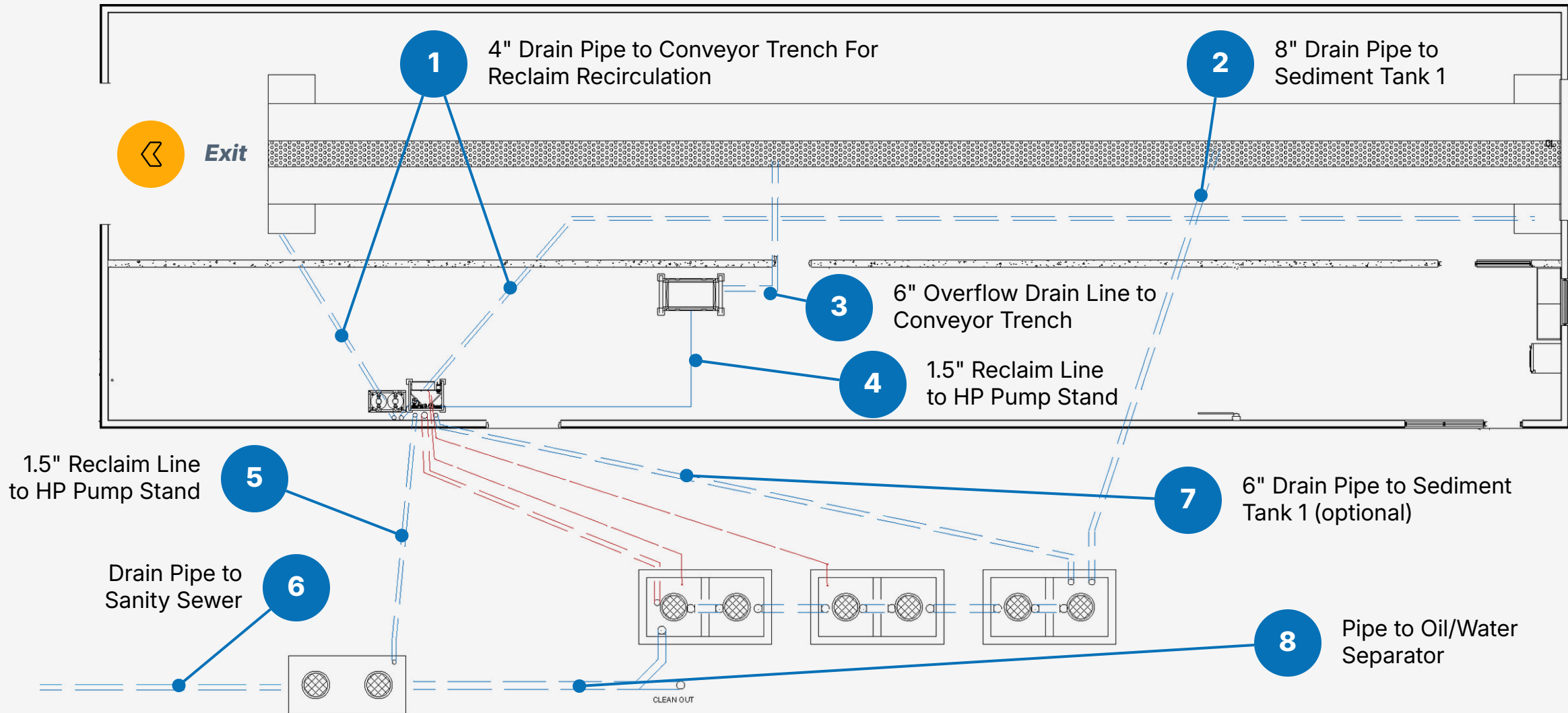
- **Automatic backflush of the multimedia filter removes debris and maintains flow**
 - Two initiation methods:
 - **Pressure-based:** Activates when differential pressure is high
 - **Scheduled:** Runs at preset times or intervals
- **Backflush Requirements**
 - 10-20 minutes
 - **Standard Flow (30 GPM)**
 - Between 300-600 gallons of water used

Installation & Integration

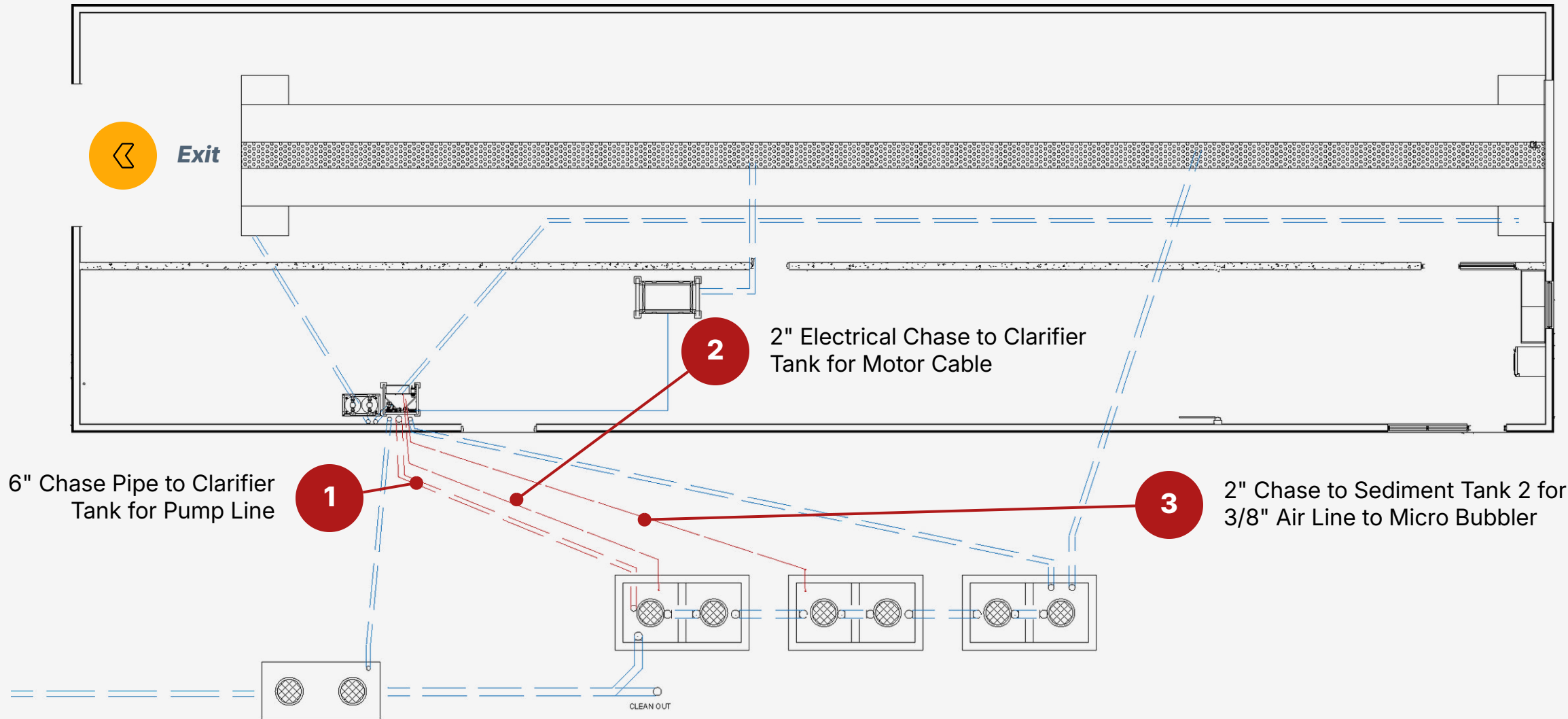
Integration - Site Layout



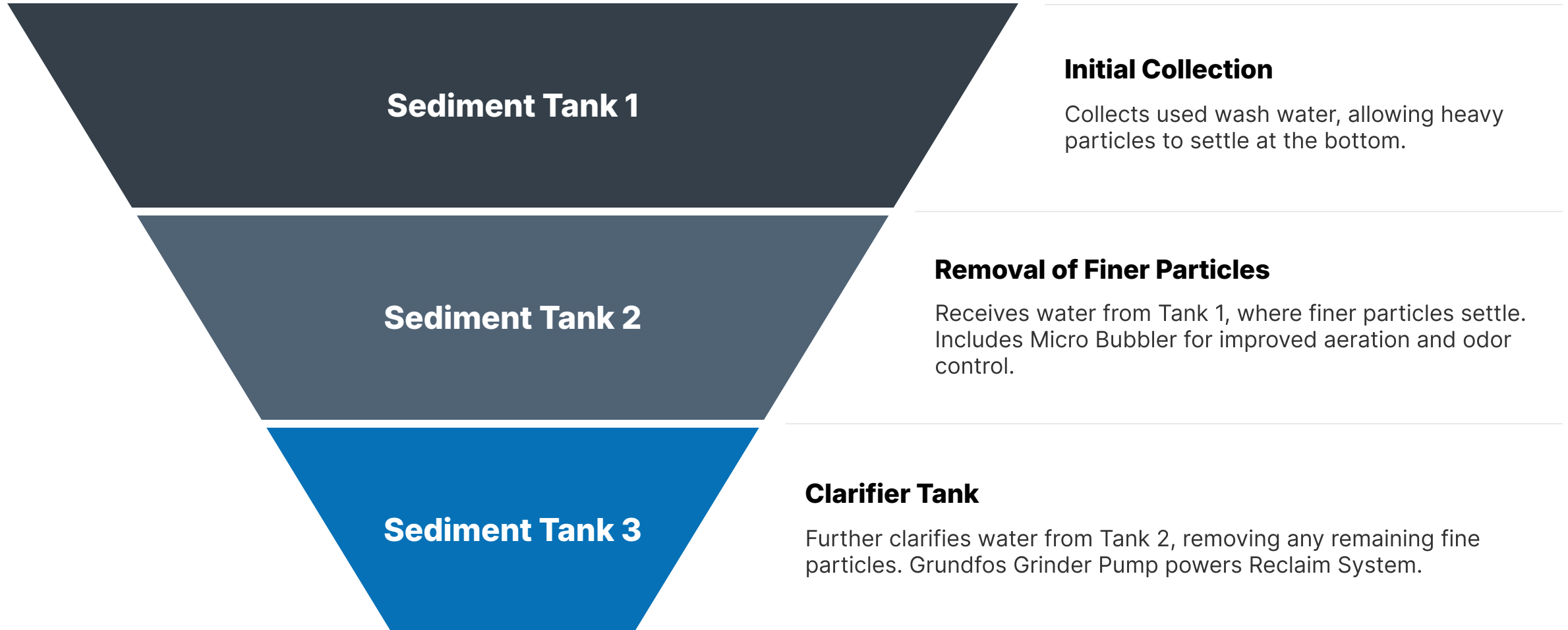
Integration - Site Layout



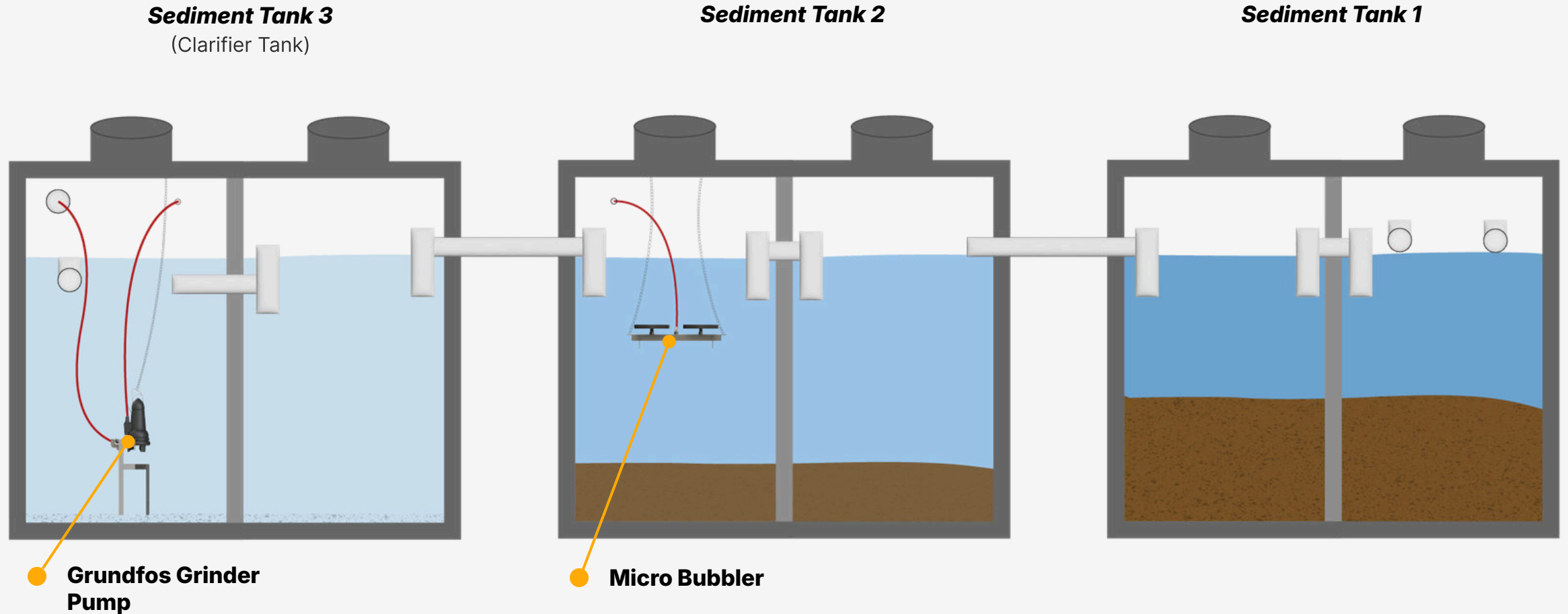
Integration - Site Layout



Integration - In-Ground Sediment Tanks



Integration - In-Ground Sediment Tanks



Our Approach - Installation

Typical Systems	Our Solution
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
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 reduces installation time and complexity

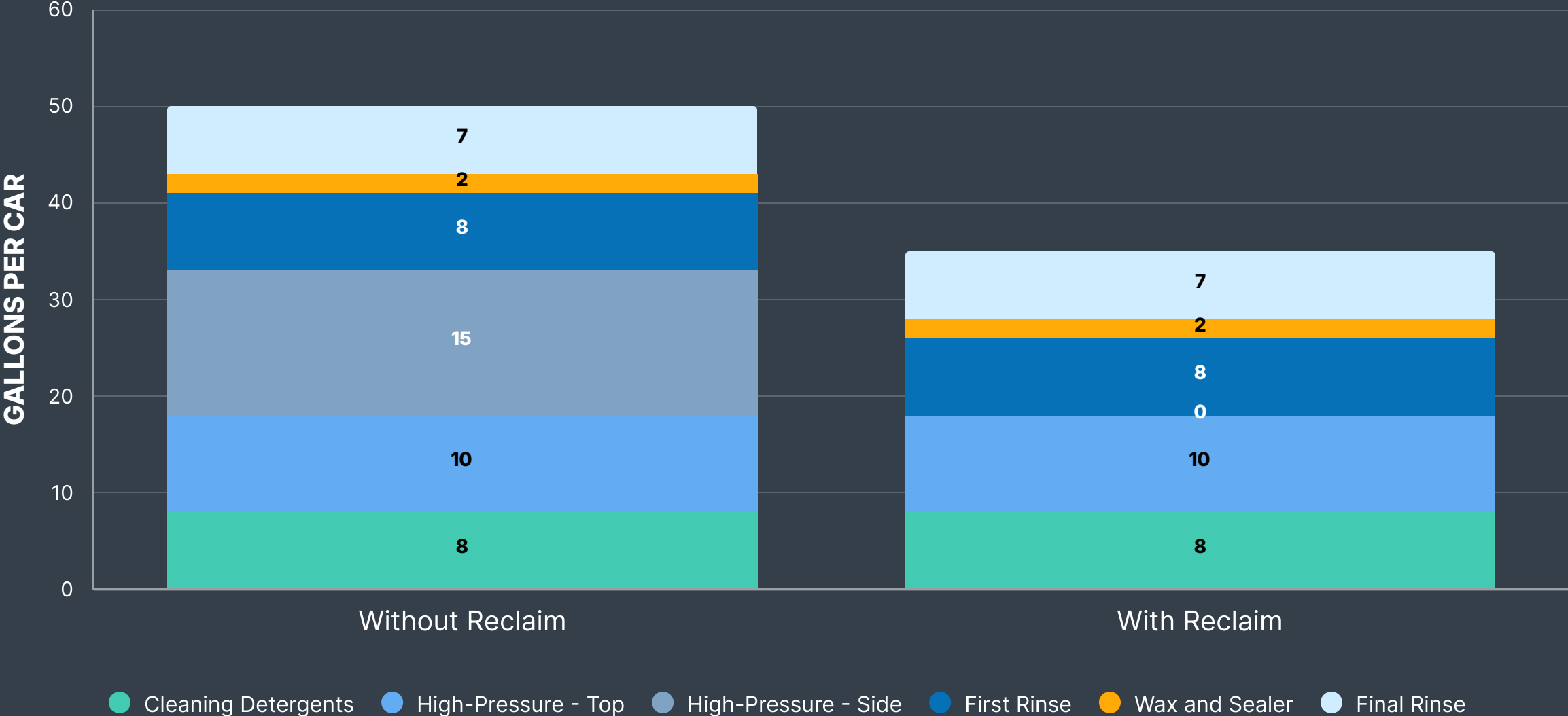
Maintenance

Maintenance Items

Check	Frequency
Visual Inspection (all connections, hoses, manifolds, pumps)	Daily
Clean SEG and Dosing Pump Surfaces	Weekly
SEG Pump Inspection (cables, impeller, housing, grinder system)	Every 3,000 hrs OR at least once a year
Change Oil in SEG Pump	Every 3,000 hrs OR at least once a year
Dosing Pump Inspection & Cleaning	Weekly
Check Dosing Pump Head Screws	Every 3 months
Check Internal Height of Media Bed	1 x Year

Water Savings

Freshwater Usage Without vs. With Reclaim



Water Savings

	Standard Flow		High Flow	
Cars Per Day	350		1,000	
Water & Sewer \$/Gallon	\$0.008	\$0.014	\$0.014	\$0.014
Gallons Per Car (w/o Reclaim)	50	50	50	50
Gallons Per Car (with Reclaim)	35	35	25	25
Back Flush Time (Minutes)	10	10	20	20
Daily Back Flush (Gallons)	300	300	1,200	1,200
Water Savings (Gallons/Year)	1,782,000	1,782,000	8,568,000	8,568,000
Cost Savings (\$/Year)	\$14,250	\$24,950	\$68,600	\$120,000

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Thank You!
