



Why Your Concrete Plant Pays More for Water Than It Should — and How to Fix It

Water Flow Innovations LLC

Flow Conditioning Device (FCD)
waterflowinnovations.com

Your batch computer tracks every gallon that goes into your mixes — but your municipal meter is counting more than that. **Drum wash cycles, mixer flush events, and dust suppression on/off demand create the conditions for air, gas, and turbulence to form in the line at your meter — and you're being billed for it.** The FCD (Flow Conditioning Device) corrects the measurement. Your process doesn't change. Your water bill drops — and so does your sewer bill, because sewer charges are calculated from the same inflated meter reading. One device. Two bills fixed.

WHY CONCRETE PLANT WATER METERS OVER-READ

The Core Problem: Your Batch Computer Is Accurate — Your Municipal Meter Is Not

Your batch computer precisely measures every gallon added to your mixes. But your municipal supply meter measures total intake at the property line — including the air, gas, and turbulence generated by high-velocity open-valve demand events. That discrepancy between your batch records and your municipal bill is the over-reading. The FCD corrects it at the source without touching a single mix design, water-cement ratio, or ACI compliance parameter.

THE THREE OVER-READING SOURCES UNIQUE TO CONCRETE PLANTS



Drum & Mixer Wash Cycles

High-volume water blasts for drum washing create intense open-valve demand events — generating air, gas, and turbulence at the supply meter on every wash cycle across every shift.



Dust Suppression On/Off

Dust suppression systems cycling on and off throughout the day create repeated variable demand events — each one an over-reading opportunity at the supply meter.



Truck & Equipment Washdown

Transit mixer washout and equipment washdown creates large, fast-draw demand events — the classic open-valve conditions that drive the most significant meter over-reading.



Your Batch Records Show Less Water Use Than Your Municipal Bill — That Gap Is Recoverable

If your metered municipal intake is consistently higher than the sum of your batch water additions plus wash and suppression use, that discrepancy is meter over-reading — not missing water. After FCD installation, your municipal meter reading will reconcile more closely with your internal batch records, and your NPDES water balance documentation will close more accurately.

BEFORE & AFTER THE FCD

WITHOUT FCD

- ✗ Air, gas & turbulence billed as water volume
- ✗ Drum wash events inflate meter reading
- ✗ Dust suppression cycling compounds bill
- ✗ Meter doesn't reconcile with batch records
- ✗ Sewer charge tied to inflated meter



WITH FCD INSTALLED

- ✓ Metered volume reflects water actually delivered
- ✓ Drum wash events read accurately
- ✓ Dust suppression cycles measured correctly
- ✓ Meter reconciles with batch computer records
- ✓ Sewer charge based on real usage

5–30%

Average water & sewer bill reduction

46%

Highest documented single-site reduction

~1 Hour

Install time — water off about 1 hour

6-Mo

Money-back, no questions asked · install non-refundable

How the FCD Works — Four Steps

1

Installs between two pipe joints right after your water meter — water off about one hour

2

Creates a slight back-pressure that extends back through the meter, reducing air, gas, and turbulence

3

Delivers a laminar-like flow profile through the meter — the condition it was calibrated to read

4

Meter reads accurately. Bill drops. Your batch process, mix designs, and ACI compliance are effectively unchanged.

FREE SAVINGS ESTIMATE

Instant estimate — takes 30 seconds, no contact info required.

[waterflowinnovations.com/
water-bill-savings-calculator](https://waterflowinnovations.com/water-bill-savings-calculator)

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CERTIFICATIONS

IAPMO NSF/ANSI/CAN 61 KIWA GMP SQF

316L Stainless Steel · Made in USA
Under 0.8 psi pressure loss
Lifetime Transferable Warranty