



OVIVO
Bringing water to life

AEROSTRIP® AERATION SYSTEM

3/26/2014

AEROSTRIP

7-in wide x 8 - 13 ft long (TYP)



316 SS Base: "T" Type



PVC Base: "Q" Type

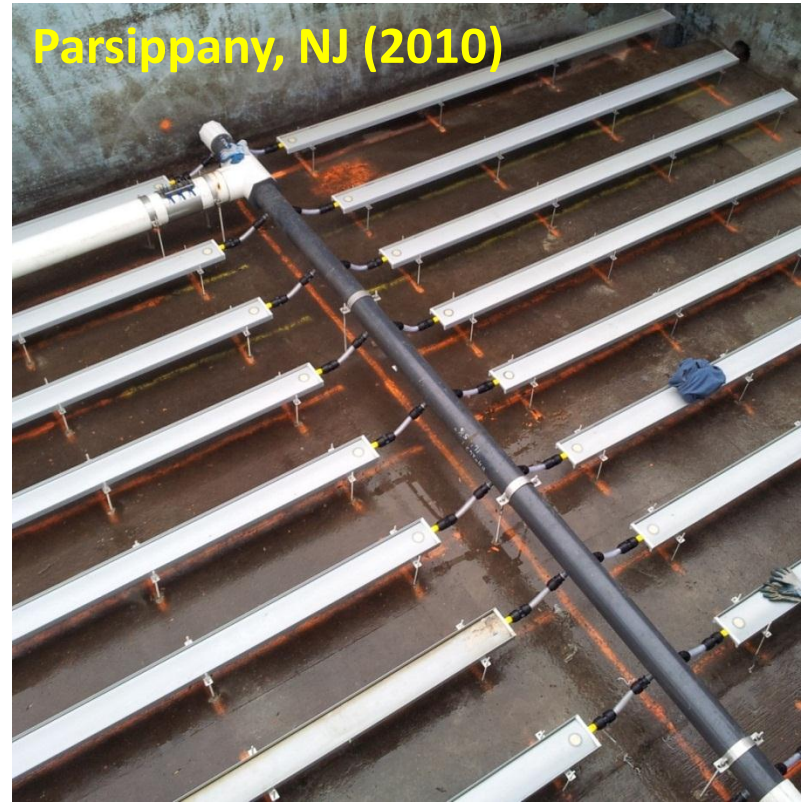
(Identical Performance)

AEROSTRIP® With Laterals



Simi Valley, CA (2004)

SS Laterals



Parsippany, NJ (2010)

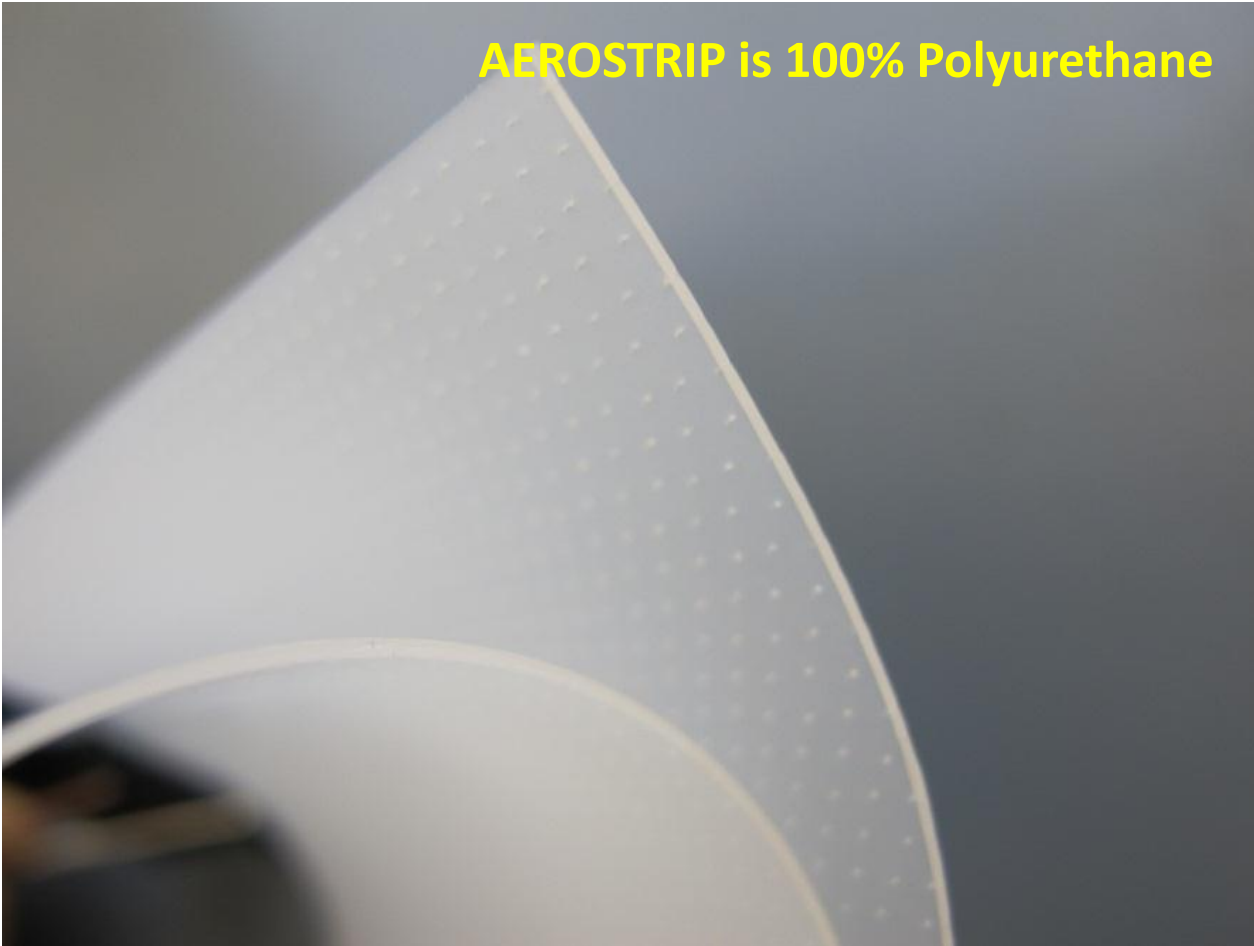
PVC Laterals

AEROSTRIP® With HDPE Drops



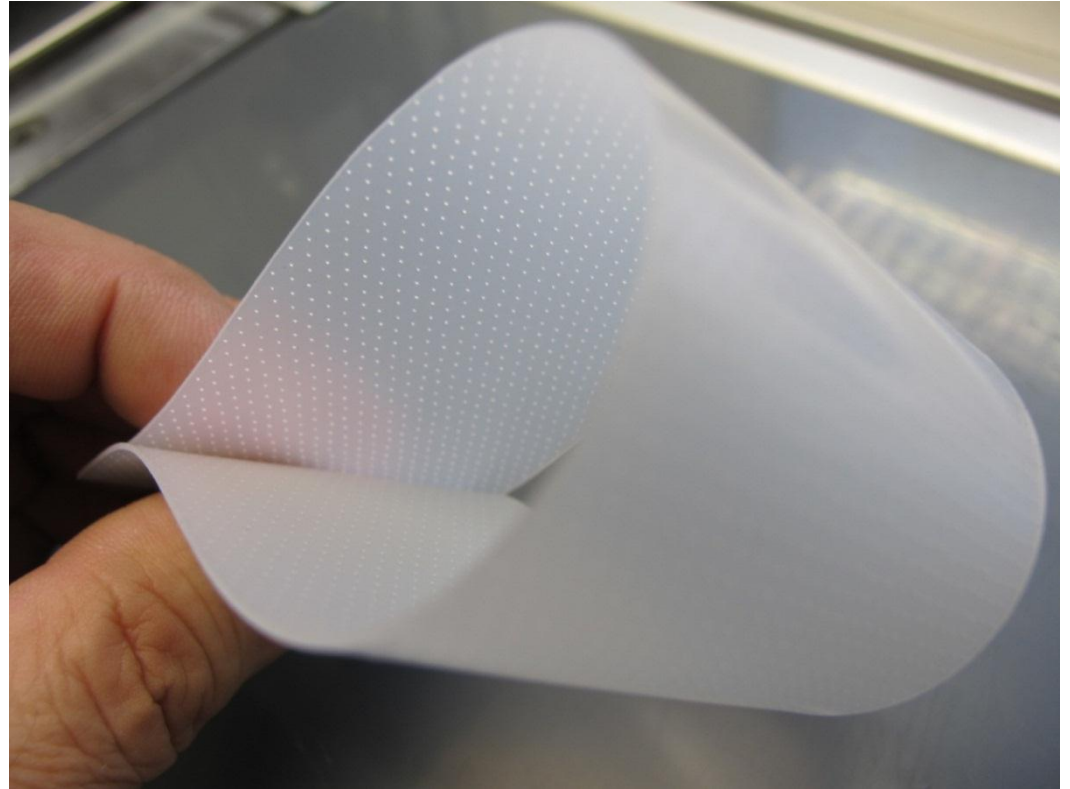
No Additives

AEROSTRIP is 100% Polyurethane



AEROSTRIP® Perforation

- Perforation using needles
- Each perforation is a check valve
- No orifices needed!
- Each diffuser factory tested at 2 air flow rates

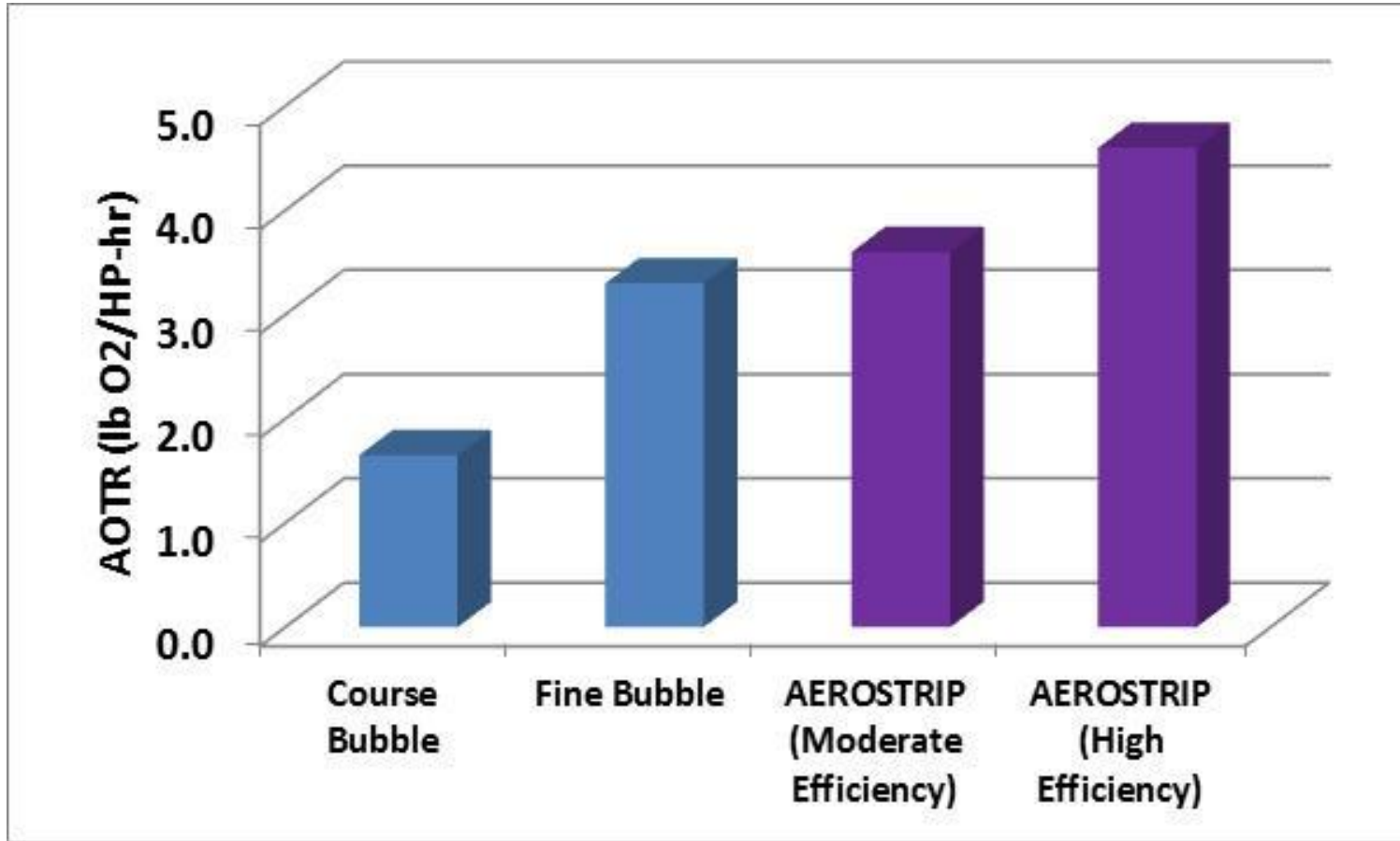


AEROSTRIP® Perforation

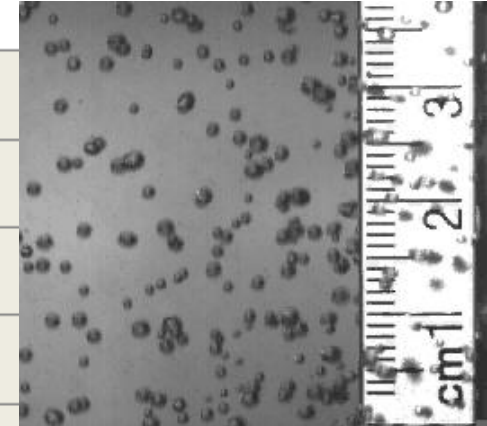
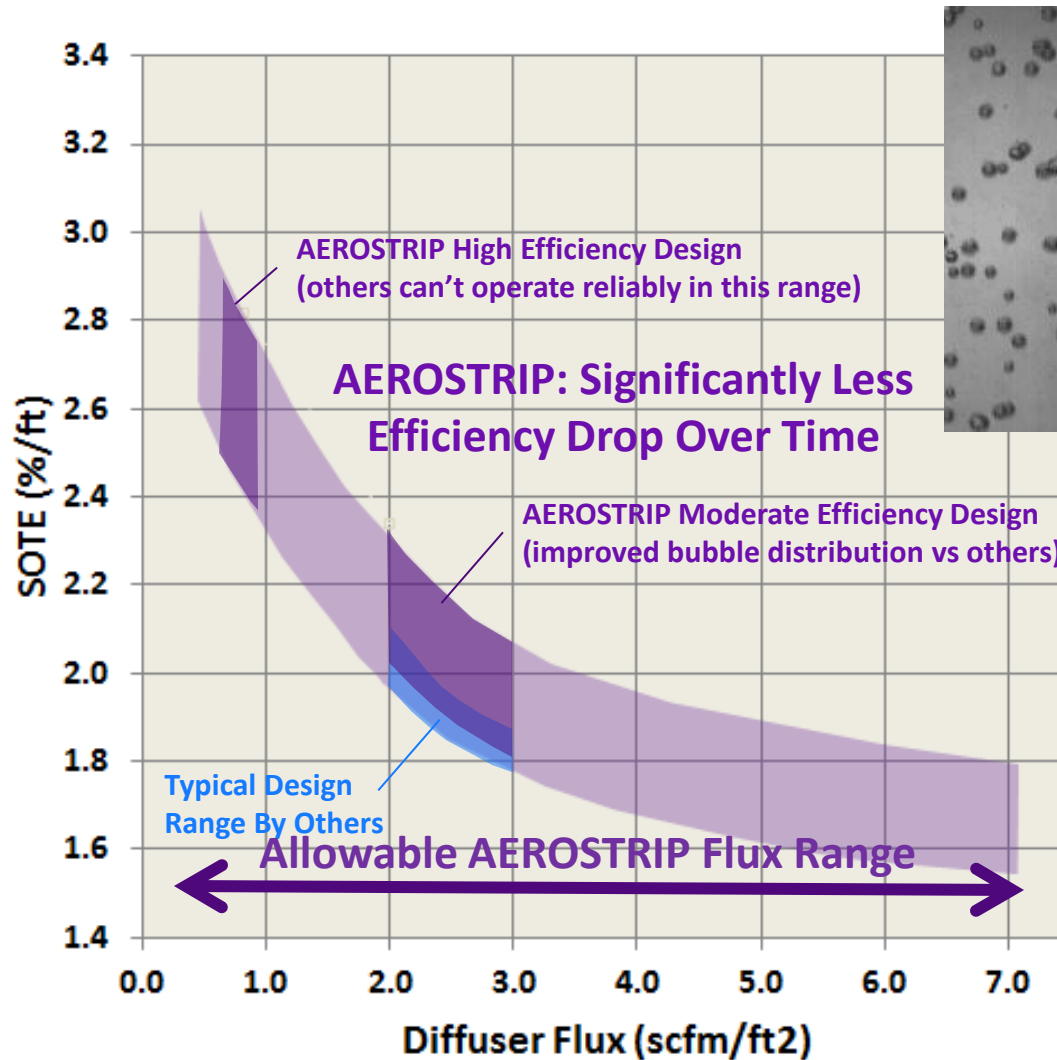


- Leak testing for every diffuser
- Ensures even airflow distribution
- Allows low and high air flux rates

Comparison of Energy Savings



O₂ Transfer and Flux Ranges



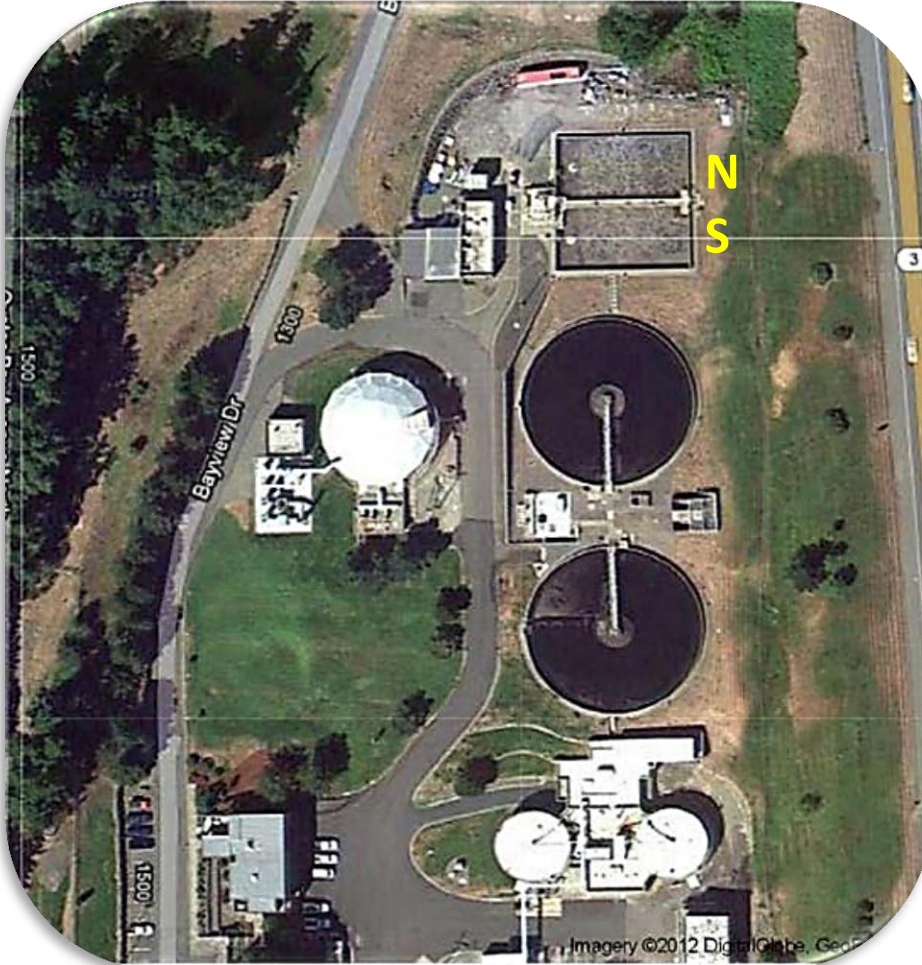




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Bremerton, WA Testing of 11-Year Old Diffusers

Bremerton, WA: First U.S AEROSTRIP® Installation



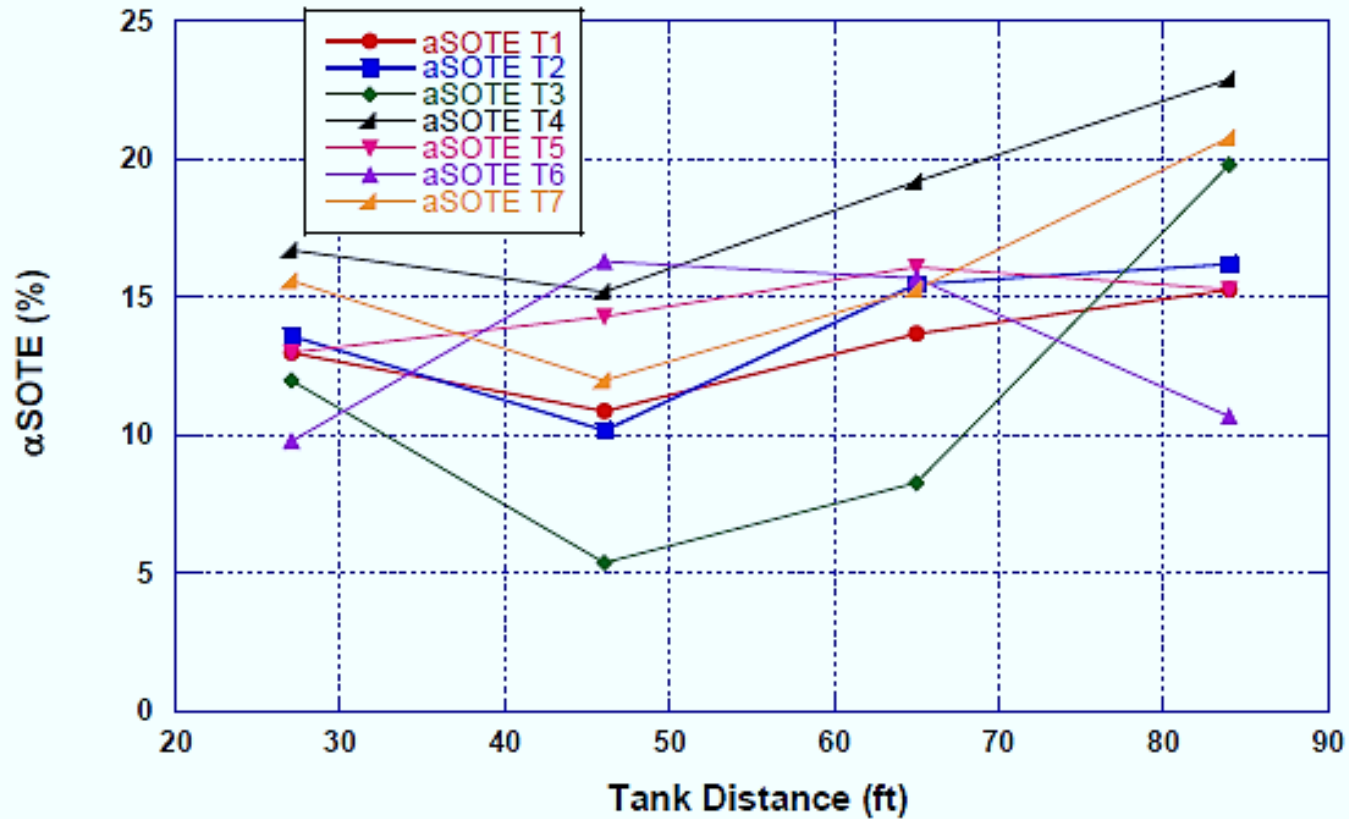
Bremerton, WA: Off Gas Testing

July 2012



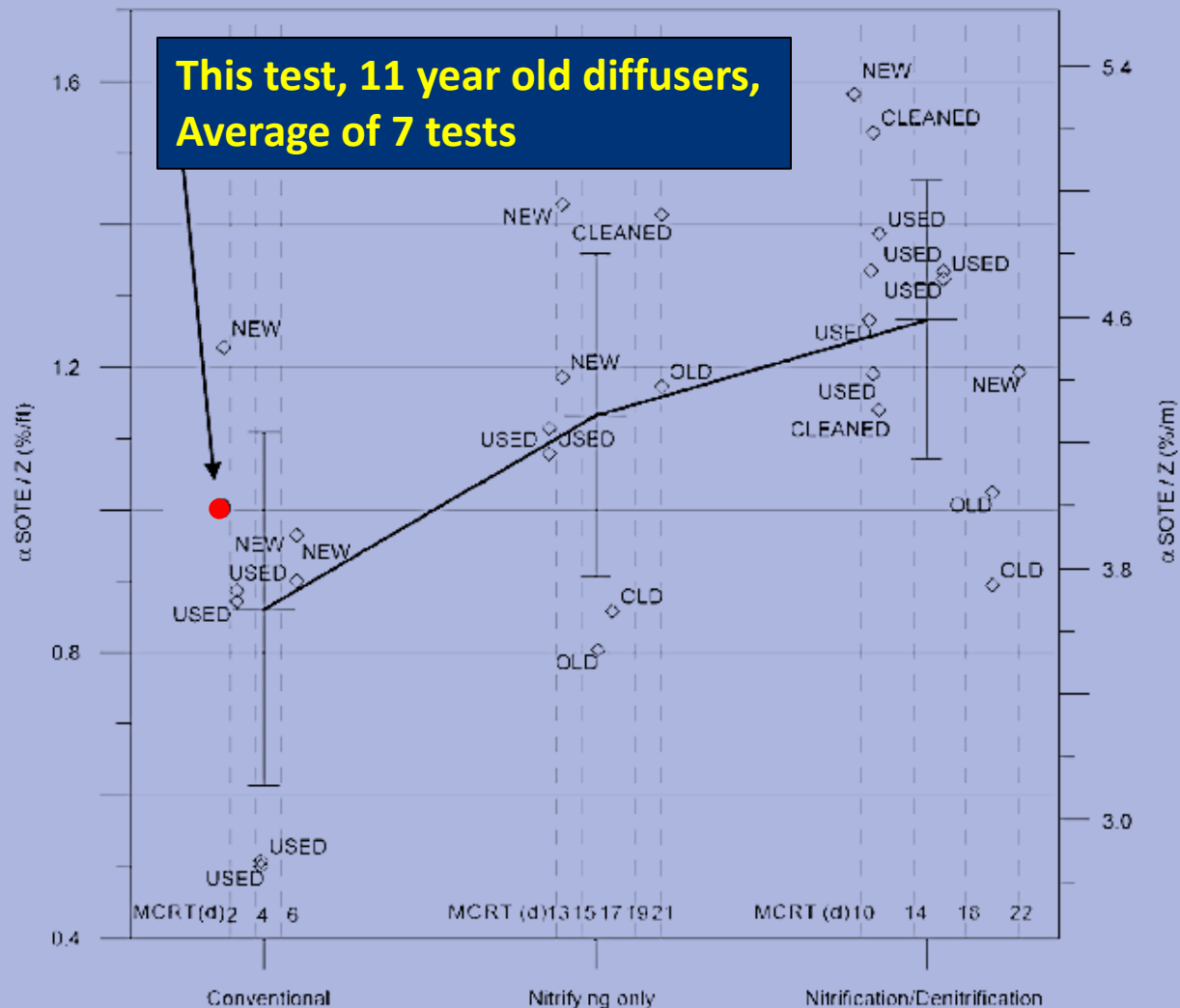
Bremerton, WA: Off Gas Testing

July 2012



Bremerton, WA: Off Gas Testing

July 2012



**This test, 11 year old diffusers,
Average of 7 tests**

Figure 1. Comparison of this tests to other off-gas tests

Bremerton, WA: Serial No. 001



Bremerton, WA: Serial No. 001

Installed 2001



Inspection and OTE Testing 2012



Bremerton, WA: Clean Water Test August 28-30, 2012 (Austria)



- SOTE of 11-Year Old Diffusers Was 2%/ft SWD (2.2%/ft after pressure washing)
- Diffusers are operating at ~90% of their original efficiency after 11 years and pressure washing
- Average α Factor of ~0.5 for this 1.5 day SRT System
- Operator reports only 5 out of 280 have failed in 11 years
- Subsequent Material Testing currently being performed

Bremerton, WA: Serial No. 001

