

Arsenic in Tolono Area Groundwater: Water Treatment



ILLINOIS STATE
WATER SURVEY
PRAIRIE RESEARCH INSTITUTE



TM

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Get Water Analyzed First!

- Maybe it's OK.
- Information helpful in choosing treatment option.
- ISWS Public Service Laboratory

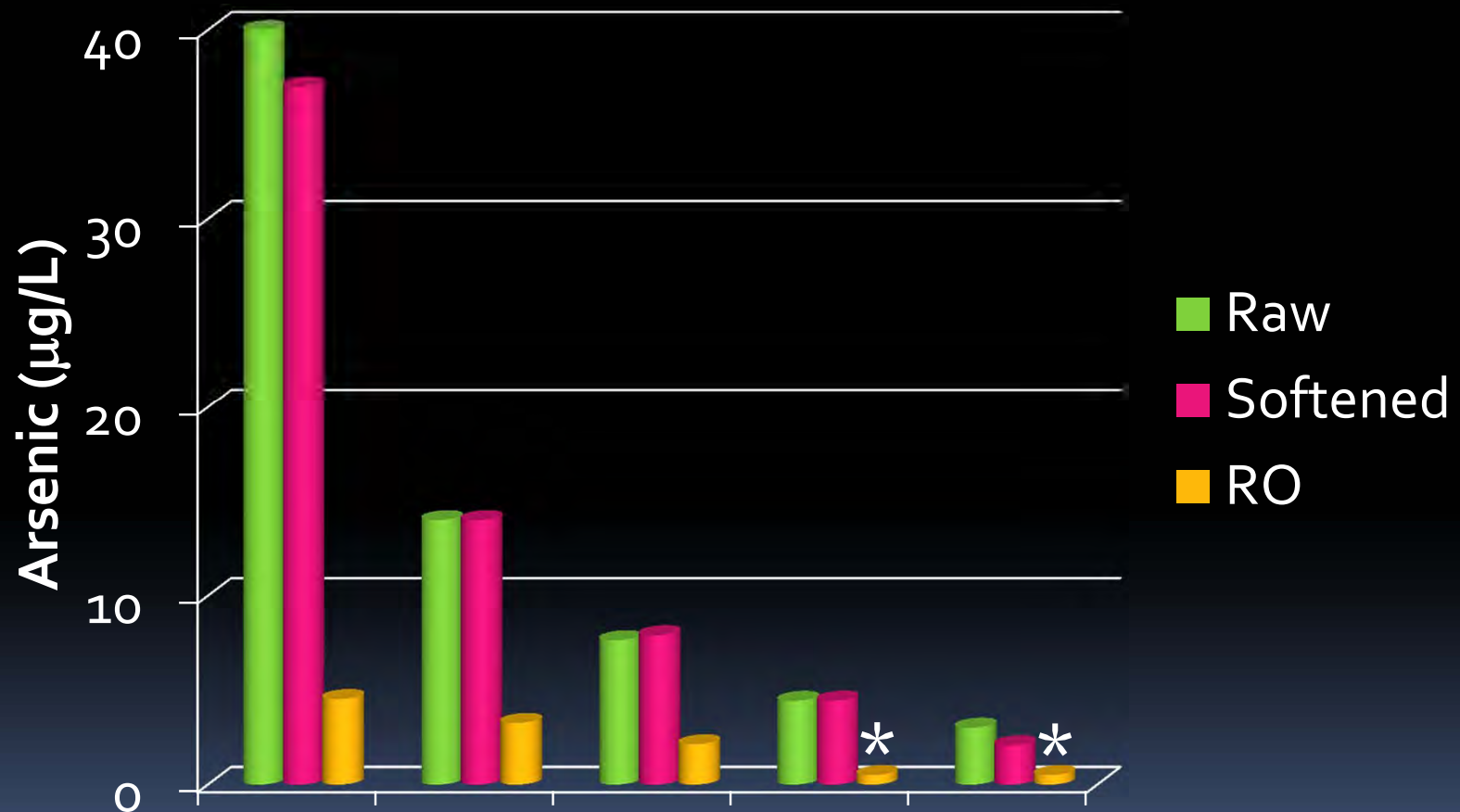
Reverse Osmosis

- Mature technology, wide choice, low price.
- Point of use, not point of entry.
- Still need softener.

RO Vendor Disclaimers

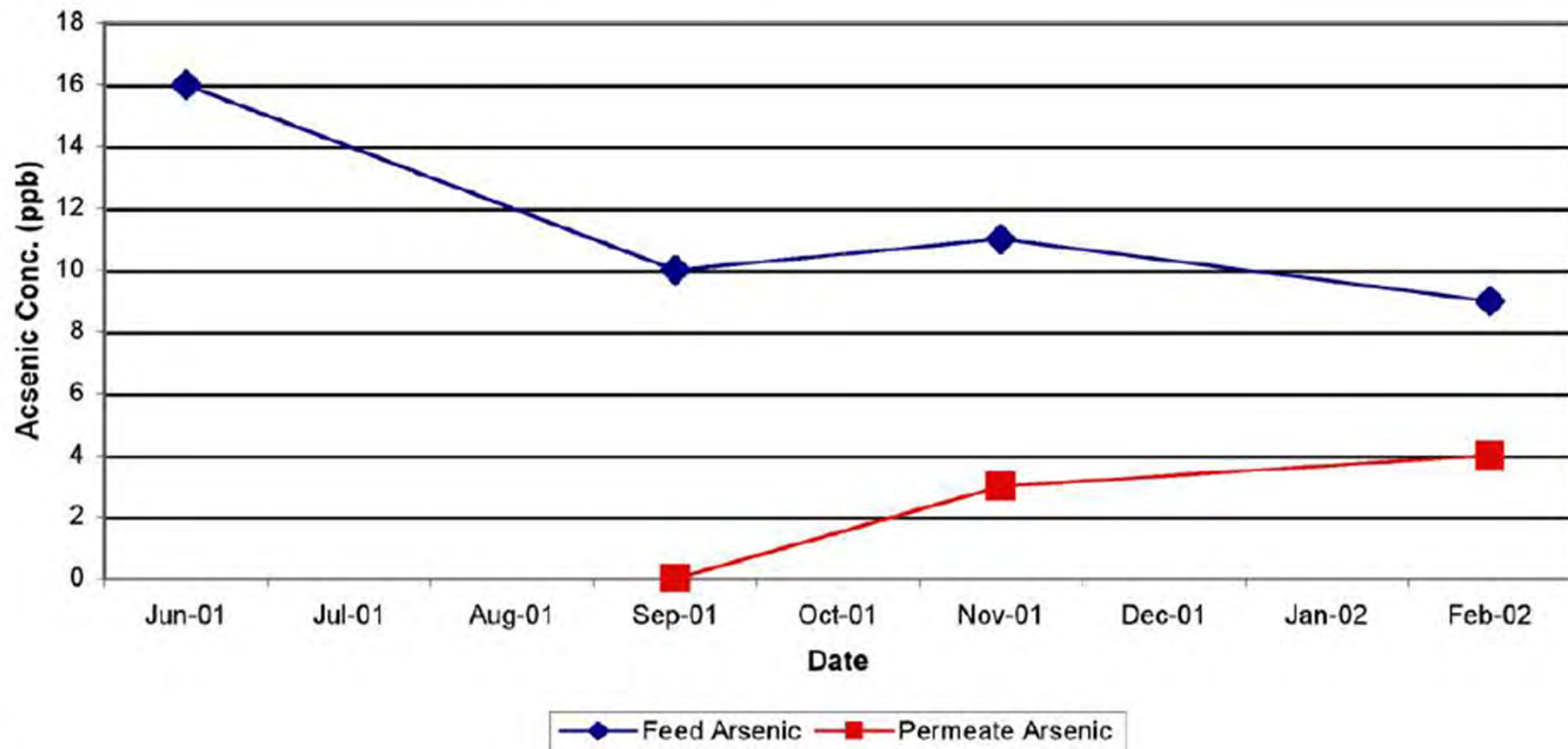
- Need to know As speciation.
- Won't guarantee >50% As(III) removal.

Arsenic Removal by Reverse Osmosis



* Not detected

**Figure 4. POU-RO Arsenic Data
(Membrane Degradation Indicated)**



Moretti (2002)

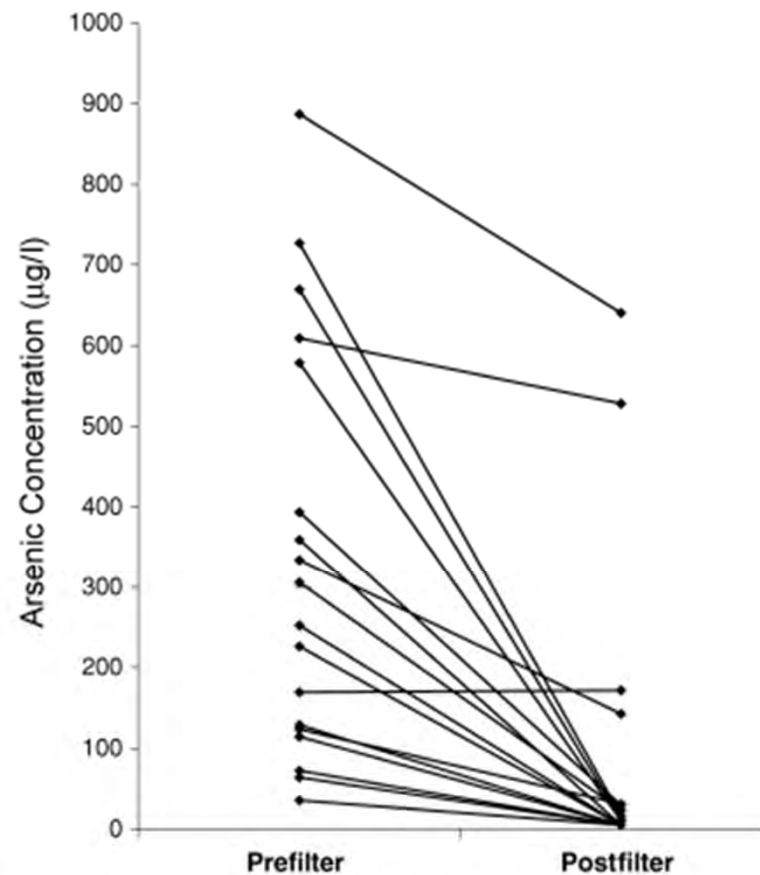
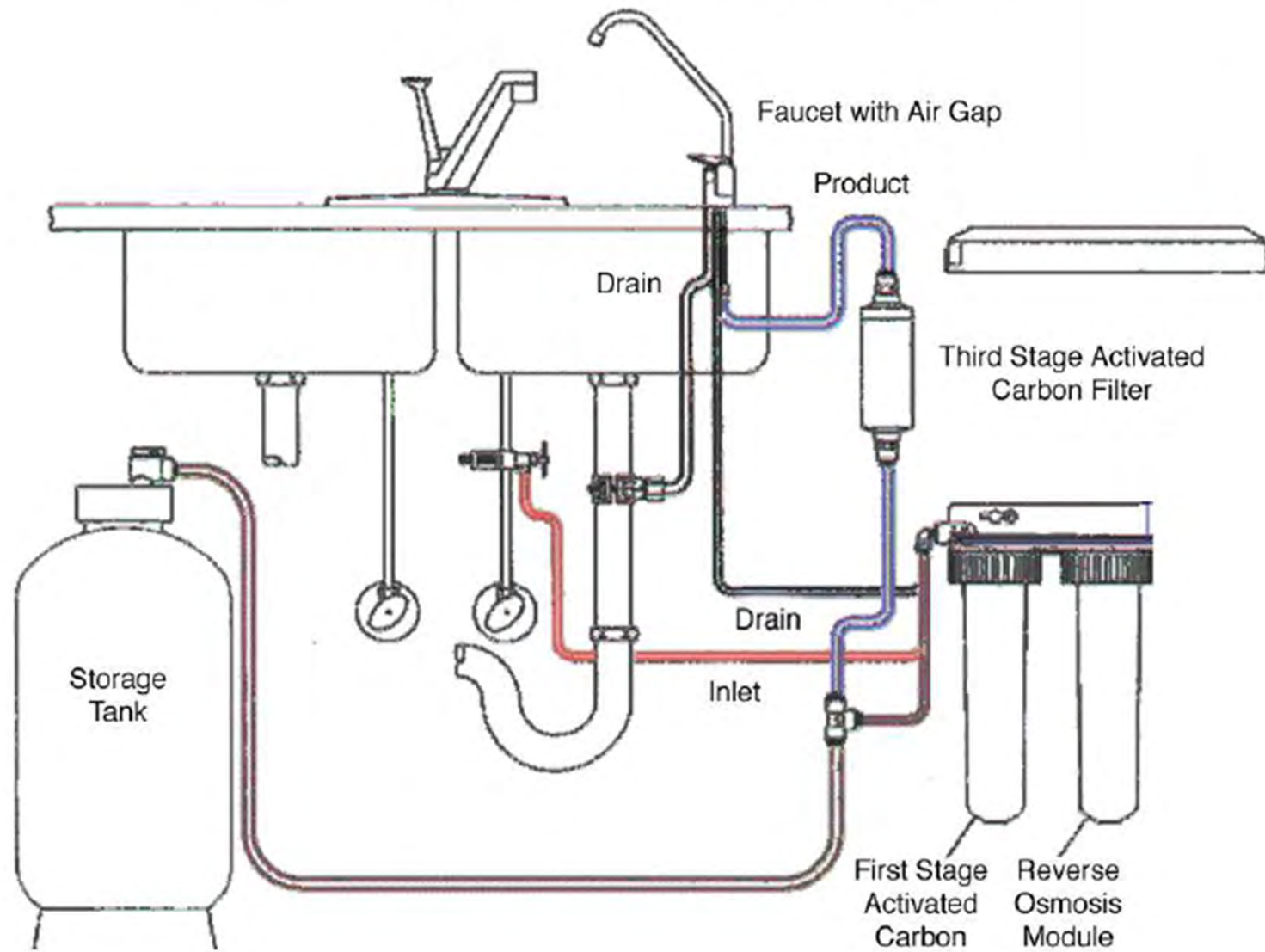


Fig. 1. Arsenic concentrations from private well water from 18 homes in Nevada before and after reverse osmosis filtration. (For display purposes, we did not include the home with the very high pre-filtration arsenic concentration [pre- and postfiltration arsenic concentrations of 2363 and $<10 \mu\text{g/l}$] in the figure.)

Figure 1. POU-RO Installation Configuration in a Household Kitchen



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Cont



Culligan Good Water Machine RO

With the Culligan AC-30 Good Water Machine®, you'll worry about your drinking water again. Using three sequential filtration methods, including our exclusive reverse osmosis filter – the most advanced filtration method available – AC-30 Good Water Machine reduces copper, lead, selenium, barium, radium 226/228, cadmium, chromium and TDS that affect the quality, taste and smell of your water. With the Culligan AC-30 Good Water Machine, you get more than just great water, you get true peace of mind that your water is cleaner than before.

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Adedge 2 Stage Arsenic + Sediment

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POU CARTRIDGE FOR ARSENIC

High Performance Point-of-Use Solutions

Adedge Technologies, Inc. is introducing two new POU cartridges for arsenic reduction. These products are the most cost-effective technology to date to meet the challenges of the new 10 micrograms per liter ($\mu\text{g/l}$) drinking water standard for arsenic established by EPA. Products incorporate a proprietary iron oxide media for long life and high performance. Cartridges effectively reduce both Arsenic (V) and Arsenic (III) without pre-oxidation. Ideal applications include under-counter and countertop POU systems.



CARTRIDGE PERFORMANCE

Applications	Ideal for Under-counter or countertop POU systems Model AD-2710S: 50 $\mu\text{g/l}$ of arsenic, 0.5 gpm flow, pH 6.5-8.5 Model AD-4510S: 100 $\mu\text{g/l}$ of arsenic, 0.5 gpm flow, pH 6.5-8.5
Arsenic Reduction	Reduction of up to 99% of total Arsenic Effective for both As (III) & As (V).
Capacity	1000 – 3,000 gallons; 4-6 times longer life than other commercial adsorption options (conservative rating at pH 8.5)
Contaminants	Primary: Arsenic Secondary: lead, chromium, cadmium, molybdenum, zinc, and antimony
Certifications	NSF 61 product listing on Media (see Adedge for details).
Components	FDA listed components
Extractables	Imparts no harmful chemicals into the treated product water

The standard Model AD-2710S has been optimized for extended life and fits most standard and slimline 10-inch housings. The AD-2710S is designed to treat 50 $\mu\text{g/l}$ of total arsenic to less than 10 $\mu\text{g/l}$. (based on pH 8.5, Arsenic (V) challenges using NSF 53 protocols). The AD-4510S version is a 4.5x10-inch BB size cartridge designed for tackling higher arsenic concentrations above 50 $\mu\text{g/l}$. Both are filled with 100% Adedge Technologies AD-33L arsenic reduction media for maximum performance.



TECHNICAL SPECIFICATIONS

General Specifications	Model AD-2710S	Model AD-4510S
Dimensions	2.75 x 9.75-inch	4.5 x 9.75-inch
Media type(s)	Custom AD-33L Iron Oxide	Custom AD-33L Iron Oxide
Contaminant Reduction	Arsenic (V) and (III)	Arsenic (V) and (III)
Cartridge Life	1,000 gallons	3,000 gallons
Cartridge shell	FDA grade Polyethylene	FDA grade Polyethylene
Micron rating	25 Micron Nominal	25 Micron Nominal
Pressure drop	< 8 psi @ 0.5 gpm	< 8 psi @ 0.5 gpm
Housings	Fits most conventional housings – consult your AdEdge Distributor for details	Fits most conventional housings – consult your AdEdge Distributor for details
Recommended Water Quality for Best Performance		
pH	6.5 – 8.5	Arsenic 50 or 100 $\mu\text{g/l}$ (see above)
Iron	< 0.5 mg/l	Silica < 30 mg/l
Manganese	< 0.05 mg/l	Sulfate < 100 mg/l
		Phosphate < 0.5 mg/l
		Sulfides < 0.1 mg/l
		Fluoride < 1 mg/l

Contact your local dealer:

adedge

Models:
AD2710S
AD4510S

Removes "up to 99%"
of total As

Capacity 1000
gallons

Fe < 0.5 mg/L
Mn < 0.05 mg/L
H₂S < 0.1 mg/L

Install downstream
from softener