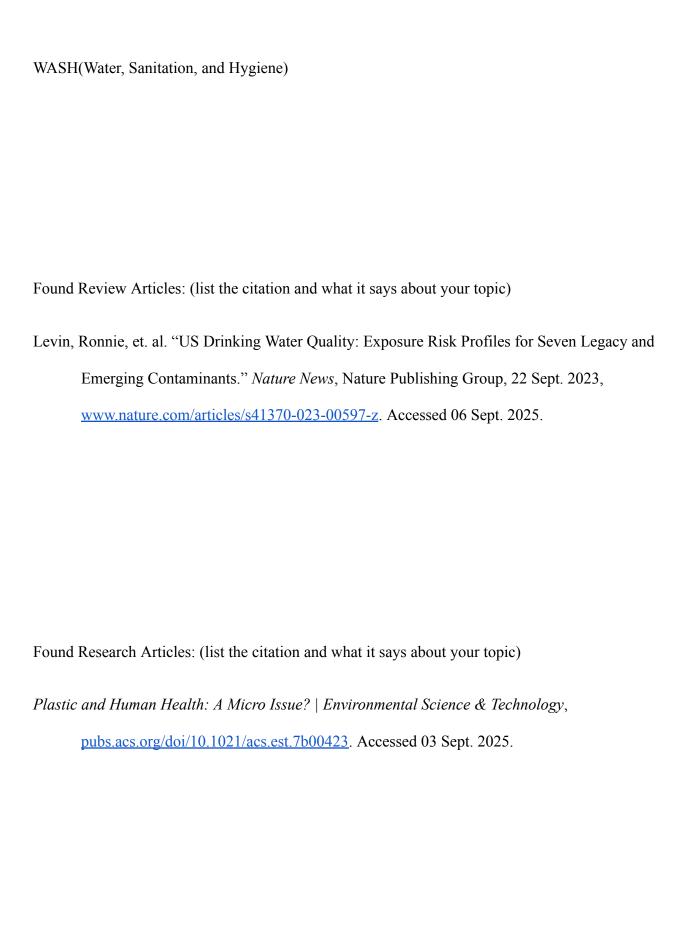
General Project Theme: Water Treatment/Filtration in Edwardsville
Project Idea 1: Has the water treatment process been adequate?
Proposed Research Question: (stated as a testable question)
How well does the water treatment plan combat contaminants such as microplastics?
Proposed Hypotheses: (stated as mutually exclusive answers to your research question)
If the water treatment plan is adequate, then the microplastic percentage will be low.
Keywords:
Microplastics
Water Infrastructure
Water Treatment Plan
Contaminants



Found SciComm Articles: (list the citation and what it says about your topic)

Christensen, Jen. "Nearly Half of the Tap Water in the US Is Contaminated with 'Forever Chemicals,' Government Study Finds." *CNN*, Cable News Network, 22 Mar. 2024, <a href="https://www.cnn.com/2023/07/05/health/pfas-nearly-half-us-tap-water-wellness">www.cnn.com/2023/07/05/health/pfas-nearly-half-us-tap-water-wellness</a>. Accessed 06 Sept. 2025.

General Project Theme: Water Treatment/Filtration in Edwardsville

Project Idea 2: Which stakeholders would be most affected should the water filtration process fail?

Proposed Research Question: (stated as a testable question)

How are vulnerable communities affected by untreated/unclean water?

Proposed Hypotheses: (stated as mutually exclusive answers to your research question)
If the water treatment plan were to fail, then children, the elderly, the immuno-compromised, and
the uniformed will be affected the most.
Keywords:
Water Treatment Plan
Contaminants
Immuno-Compromised
WASH(Water, Sanitation, and Hygiene)
Found Review Articles: (list the citation and what it says about your topic)
Cescon, Anna, and Jia-Qian Jiang. "Filtration Process and Alternative Filter Media Material in
Water Treatment." MDPI, Multidisciplinary Digital Publishing Institute, 1 Dec. 2020,
www.mdpi.com/2073-4441/12/12/3377. Accessed 03 Sept. 2025.
Found Research Articles: (list the citation and what it says about your topic)

"Principles of Water Treatment." Google Books, Google,

books.google.com/books?hl=en&lr=&id=dSZHAAAAQBAJ&oi=fnd&pg=PR15&dq=% 22water%2Btreatment%22&ots=aHNz11ugPA&sig=nw4q5GY5KF\_ee9kaVpFvr8aK3yo #v=onepage&q=%22water%20treatment%22&f=false. Accessed 03 Sept. 2025.

Found SciComm Articles: (list the citation and what it says about your topic)

Paddison, Laura. "Scientists Discover Concerning New Source of 'forever Chemicals' in Drinking Water." *CNN*, Cable News Network, 6 Jan. 2025,

www.cnn.com/2025/01/06/climate/forever-chemicals-pfas-drinking-water-drugs-wellnes.

Accessed 03 Sept. 2025.