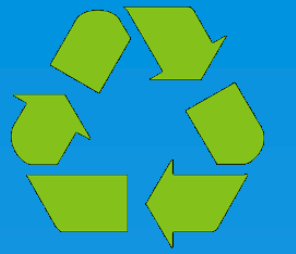


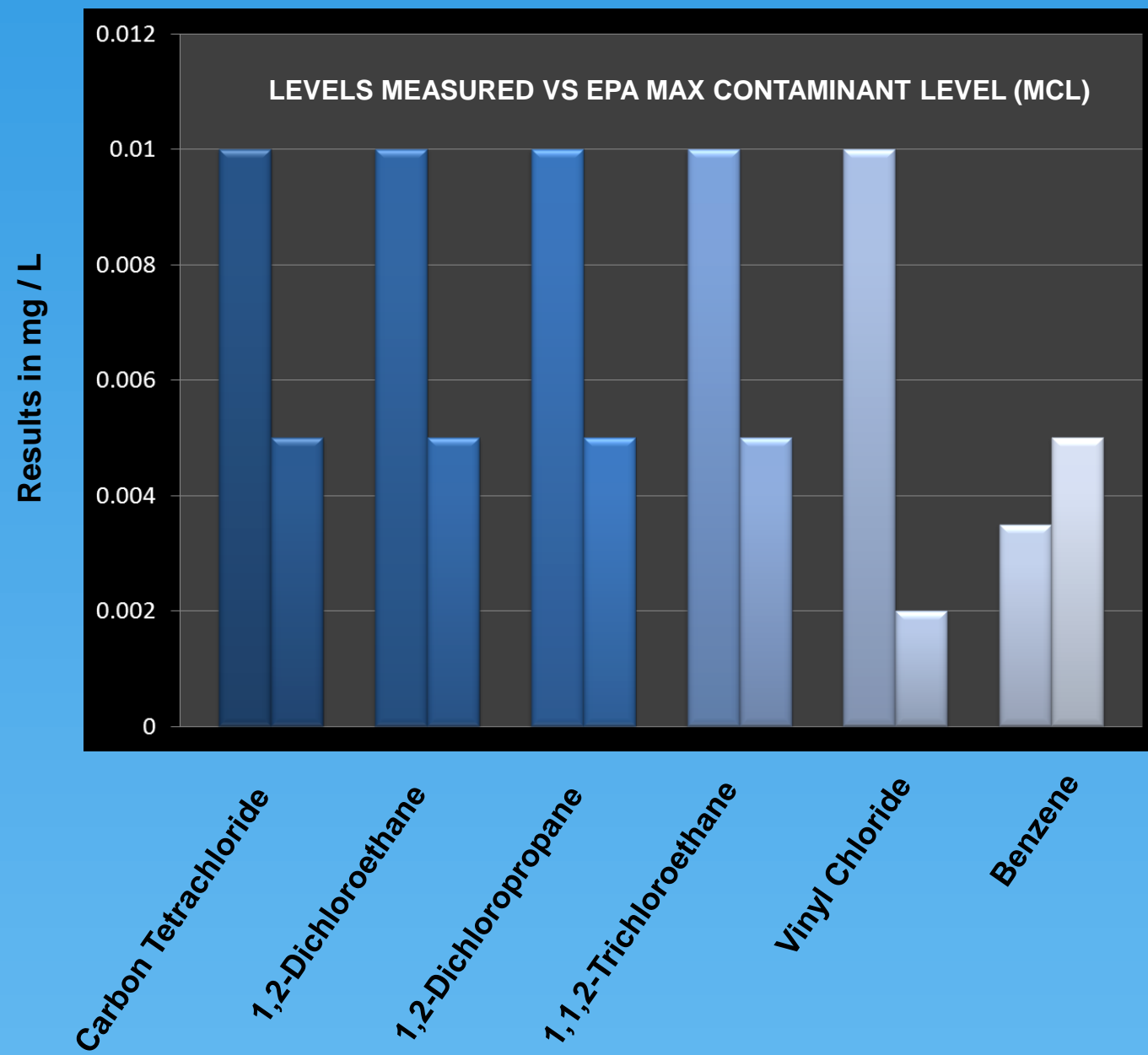
# CRUMB RUBBER PRE-FILTER



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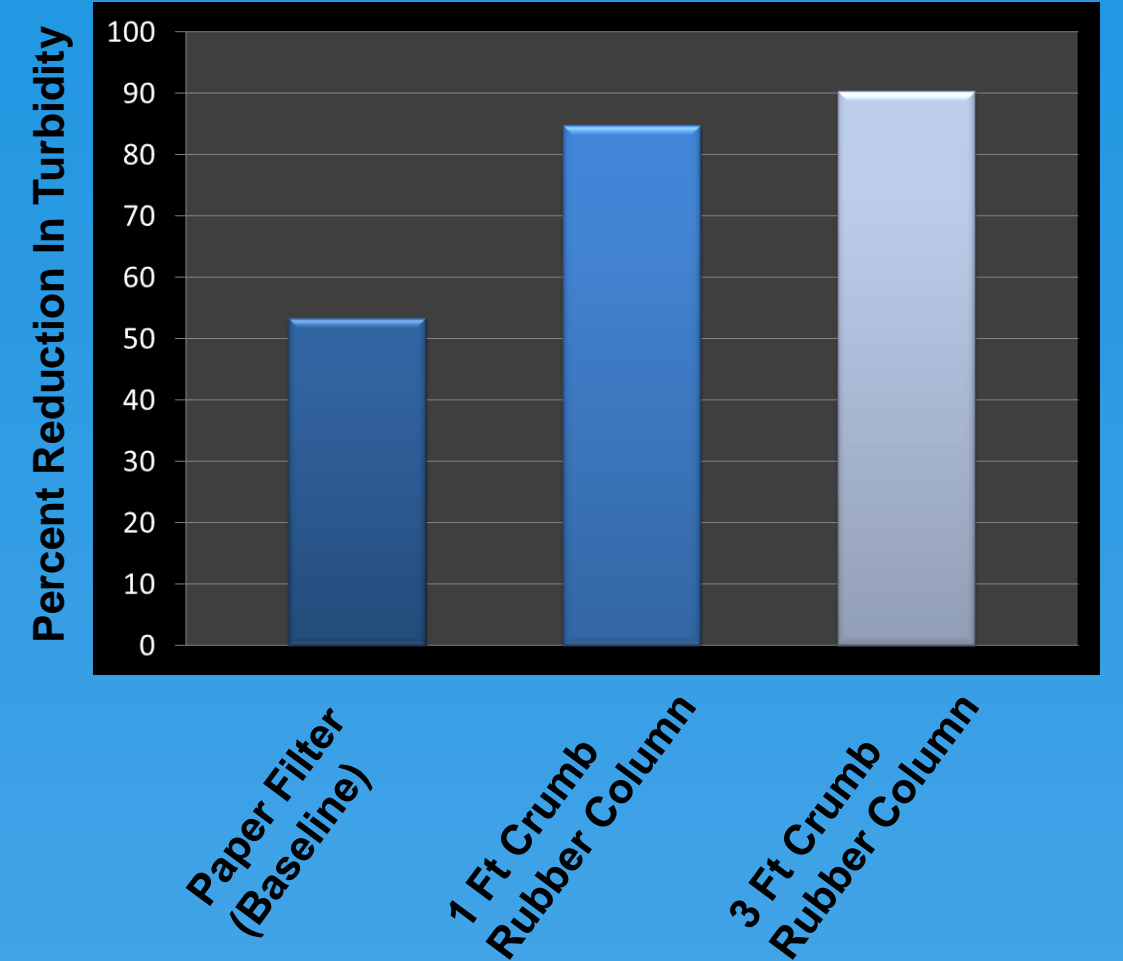
*The mission of the crumb rubber pre-filter project is to provide a sufficient, accessible, economical and sustainable solution to pre-filtering water for use in a UV water disinfection system in order to provide potable water supplies for the world's population.*

PARADIGM ENVIRONMENTAL SERVICES VOLATILE ANALYSIS REPORT FOR WATER SOAKED IN < 30 MESH CRUMB RUBBER FOR 10 WEEKS  
METHOD EPA 8260 B



- Results indicate high levels of the Environmental Protection Agency's priority pollutants
- Further testing is required to verify these results

DEPARTMENT OF ENVIRONMENTAL SERVICES  
ENVIRONMENTAL LABORATORY RESULTS  
METHOD SM 18-21 2130 B (01)

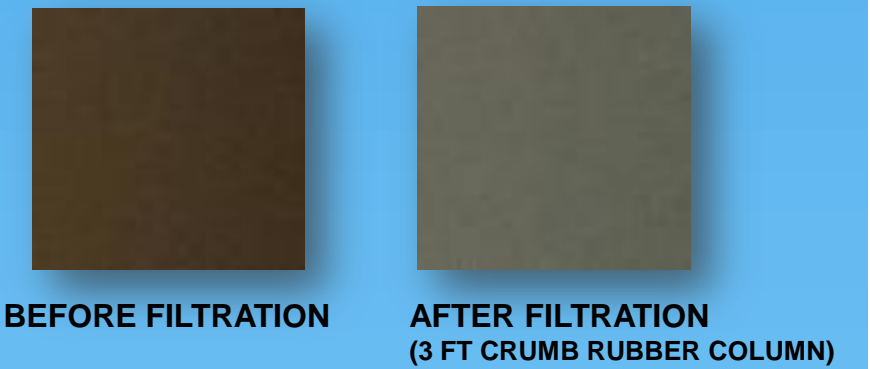


DEPARTMENT OF ENVIRONMENTAL SERVICES  
HEAVY METAL TEST RESULTS  
FOR WATER SOAKED IN CRUMB RUBBER FOR 102 HOURS  
METHOD SM 18-19, 3113 B

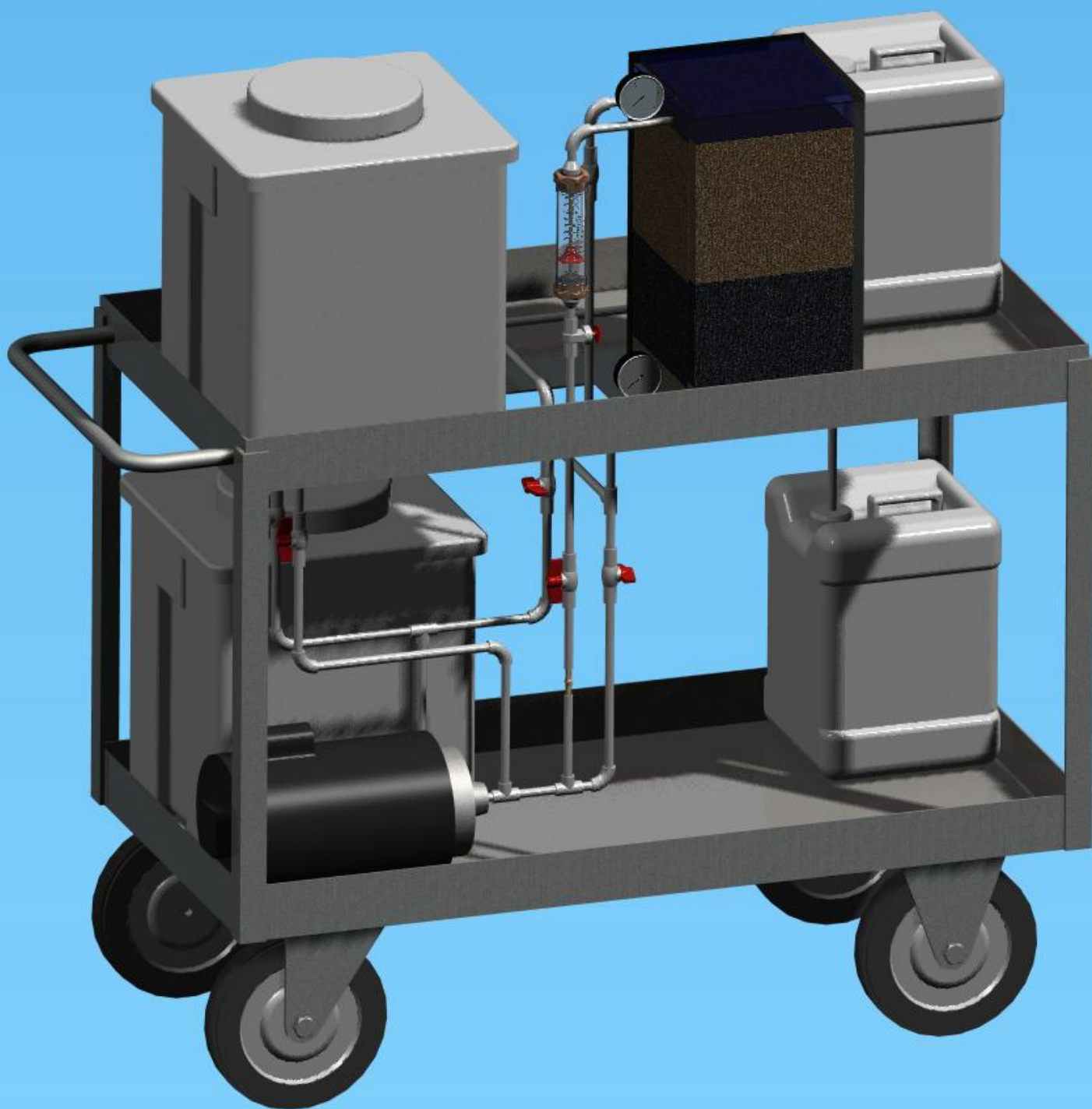
		EPA MCL
Arsenic	0.00100 mg / L	0.01000 mg / L
Cadmium	0.00100 mg / L	0.00500 mg / L
Chromium	0.00100 mg / L	0.10000 mg / L
Copper	0.00500 mg / L	1.30000 mg / L
Lead	0.00100 mg / L	0.01500 mg / L
Manganese	0.17400 mg / L	0.05000 mg / L*
Nickel	0.00260 mg / L	**
Zinc	4.23000 mg / L	5.00000 mg / L*

METHOD SM 18-121311 B (99)  
\*Secondary standard (not enforced)  
\*\*Not regulated by EPA

WATER SAMPLE FROM GENESEE RIVER



Paper filter before and after 8 minutes of run time



### VARIABLE COMPRESSION FILTER

- Device used for determining crumb rubber compression
- Will be used in future testing to optimize filter design

