## Description of Technology



## Specific Benefits

RAY is a novel system to remove organic contaminants from water without energy, chemicals, or filters.

It features a large diameter refractive lens that concentrates heat and UV on a catalyst filled reaction chamber to

- Kill up to 99.9% of *E. coli*
- Kill up to 99.9% coliform
- Removes up to 99.83% of BOD
- Reduced PFAS varieties (more testing needed)
- 360 gph (~1 million gal per year)

The reaction chamber is solar heated to 900° F, creating fast reaction times without using fossil fuels or chemicals.

ONLY device that uses the power of the sun (heat and UV), to kill bacteria, remove BOD, and chemical contaminants with very little energy inputs.

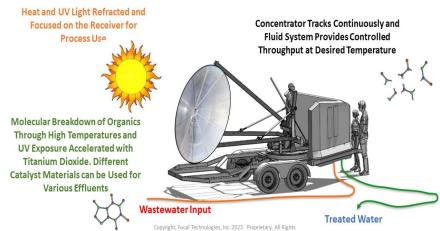
## **On- Site Solar Remediation Unit**



A safe, inexpensive solution for removing forever chemicals and organic contaminants from water.

RAY allows safe, inexpensive, 100% fossil fuel free remediation.

- Eliminating
  - dangerous storage: \$7 per gallon
- expensive (and hazardous) transport \$45 per drum plus 22% for fuel
- carbon intensive remediation: \$52-131 per ton
- Overall:
- Hauling and Processing:
  \$0.15-\$0.35 per gallon
- Focal's on site treatment: \$0.4-\$0.10 per gallon



Portable structure for use at multiple areas on site and remote locations. Autonomous once initiated.