

Technical Assistance Request

Ray System: Solar Remediation of Contaminated Water



The Focal Technologies Inc. objective is a proof-of-concept solar reaction chamber designed for the remediation of water contaminated with PFOS. For this objective we need assistance with the following areas:

1. A facility located in an area with which has consistent high solar irradiance so that the development can be accomplished within a timely manner. The facility needs to have a relatively unobstructed view of the sun from sunrise to sunset.
2. Measurement equipment which includes meteorological and solar irradiance sensors. Also needed are datalogger equipment including temperature sensors/flow meters/flux sensors/cameras/spectrometers/tracking accuracy sensors/electrical power measurement sensors/
3. A facility which has laboratory equipment for water quality measurements such as a total organic carbon/total nitrogen analyzer/Liquid chromatograph/mass spectrometer/Scanning ultraviolet-visible spectrophotometer/Gas Chromatograph etc.
4. Access to people with CAD and design skills for assistance with design modifications and repair.
5. Access to people with in the field solar research and development experience.
6. Access to a machine shop for quick fabrication of parts.