

Mobile Water Laboratory



The IX Power Clean Water **Mobile Water Laboratory (MWL)** is designed for testing water from any source for compliance, industrial incident response, and disaster relief, and can be used for training lab and field personnel. The **MWL** contains the most advanced water analysis technology and is configured with up to four workstations, plus additional equipment and supplies for short to long-term field deployment. The **MWL** allows the lab to be left in place while the tow vehicle can be used for resupply or other purposes.

At the request of our industrial and government partners, IX Power has taken its deep experience in water chemistry, analysis, and treatment, together with our relevant disaster and military training, to create a robust and sophisticated **Mobile Water Laboratory**.

The IX Power Clean Water **MWL Mark I** is designed for a wide variety of water analysis, from community water systems to post-disaster evaluation of wells and surface water. The **MWL** is a completely self-contained, rugged, self-sufficient portable lab. The lab supports complete chemical analysis of:

- Surface Water, Groundwater/Precipitation
- Drinking Water, Bottled Water
- Agricultural Water
- Urban Water Supplies, Recycled Water
- General Water Quality
- Testing in Industrial Processes
- Industrial and Wastewater Discharge

The **MWL** can also be fitted with additional equipment for testing oil and gas produced waters and 'frack flowback, naturally occurring and incident-resulting radioactive materials in water, and run off from wildfire, flood, and earthquakes.

The IX Power Clean Water **Mobile Water Laboratory** is the most advanced mobile water analysis lab available. The **MWL Mark I** is the only commercial system that builds on years of U.S. national laboratory experience, as well as conforming to U.S. Environmental Protection Agency (EPA) guidelines for laboratory capabilities to respond to drinking water contamination, now adopted by the U.S. Department of Homeland Security (DHS).

The **MWL Mark I** is also the perfect solution for educational institutions and training programs that require suitable primary and/or additional lab space. IX Power Clean Water offers all of these features in a completely integrated and affordable package.

Mobile Water Laboratory

All IX Power Clean Water **Mobile Water Laboratories** provide enhanced flexibility for international deployments and transport via shipping container.

The IX Power Clean Water **Mobile Water Laboratory** provides an integrated platform for readiness-response to natural disasters, industrial accidents, or any other incident or event where an analytical laboratory needs to be deployed quickly.

MWL Mark I Physical Specifications

Length: 28' / 8.53 m • Width: 8.5' / 2.59 m • Height: 7' / 2.134 m
2 Axles, Type: 6,000 lb / 2,722 kg torsion axles

Chassis

Full perimeter aluminum frame, all tube construction
Dexter torsion axles with electric brakes on all axles
Dual post hydraulic landing gear for gooseneck
16" O/C wall studs, floor cross members, and roof studs
Nitrogen-filled tires w/ steel wheels
One-piece aluminum subfloor vapor barrier, with 3/4" plywood subfloor
Power roof vent

Exterior

Aluminum skin, insulated screwless/rivetless aluminum exterior (Kevlar available)
One piece aluminum roof, arched & trussed walk-on service roof
ATP enclosed riser with 2 storage doors
36" dual entrance doors (Crash gates available)
Rear stabilizer jacks (5000#, crank down)

Interior

All aluminum & stainless steel cabinetry and work surfaces
240v/100 amp electrical generator and service panel
U.S., U.K., European (or other) GFI wall plugs, as required
LED lighting throughout
5,200 BTU electric heater & refrigerated air conditioning
Refrigerator
10 gallon electric hot water heater
3.0 GPM, 12V water pump & fresh water tank



MWL Mark I Analytical Capabilities

The IX Power Clean Water **Mobile Water Laboratory** is equipped for up to four technicians performing the following analytical testing:

PATHOGENS

Bacteria
Viruses
Rickettsia
Protozoa

BIOTOXINS

Plant Toxins
Fungal Toxins
Bacterial Toxins
Animal Toxins
Algal Toxins

CHEMICALS

Ammonia Compounds
Carbamate Pesticides
Herbicides
Mercury Compounds
Fluorinated Organic Compounds
Arsenic Compounds
Organophosphate Pesticides
Heavy Metal Compounds
Pharmaceuticals
Chlorinated Organics
Dense Non-Aqueous Phase Liquids
Rodenticides
Hydrogen Sulfide
Cyanide Compounds

Agricultural Runoff Products
Nitrogen Compounds
Phosphorous Compounds

Other Properties

TDS
Turbidity
pH
Hardness
Total Suspended Solids
Specific Conductance
Dissolved Oxygen
Sodium Adsorption Ratio

OPTIONAL EQUIPMENT AVAILABLE

RADIONUCLIDES

Alpha Emitters
Beta Emitters
Beta + Gamma Emitters

CHEMICAL WARFARE AGENTS

PETROLEUM PRODUCTS

Volatile Organic Compounds (VOCs)
Diesel and Gasoline Range Organics
Total Petroleum Hydrocarbons



The newly-designed MWL Mark II is ideal for long deployments in remote regions and, like the MWL Mark I, it fits neatly into a standard shipping container for easy deployment (Ford F450 not included).

IX Power Clean Water, Inc.

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