

Recommended Lab Inventory for Truckfill Stations and Water Treatment Plants

Every truckfill station and water treatment plant should have a lab area for sampling purposes. The recommended laboratory equipment and supplies for truckfill stations and water treatment plants follows.

Truckfill Station and Water Treatment Plant Labs (Minimum Recommended Equipment and Supplies)

Quantity	Item	Purpose
1	Sampling Table (a clean work area set aside specifically for water testing)	for water quality testing
1	HACH 2100P Portable Turbidimeter, or equivalent, complete with StablCal Standards Calibration Kit and Gelex Secondary Turbidity Standards Kit (in Sealed Vials)	to test turbidity
1	HACH Pocket Colorimeter II for Free and Total Chlorine or equivalent	to test free & total chlorine residuals
2	Sample Cells for Portable Turbidimeter (package of 6)	to test turbidity
2	Silicon Oil and Oiling Cloth (package of 6)	for oiling turbidity test cells
2	Sample Cells for Pocket Colorimeter II (package of 6)	to test chlorine residuals
2	Chlorine (Free) Reagent Powder Pillows, 10 mL sample (package of 100)	to test free chlorine residual
2	Chlorine (Total) Reagent Powder Pillows, 10 mL sample (package of 100)	to test total chlorine residual
6	Spare Batteries for Test Equipment	to ensure test equipment will work
1	1L Graduated Pitcher	to collect water samples
2	500mL Graduated Cylinder or Beaker, Polypropylene	for batch chlorinating
2	100mL Graduated Cylinder, Polypropylene	for batch chlorinating
2	500mL Polyethylene Wash Bottle	for washing sample cells
1	Small Plastic Washtub (if no sink in plant)	for rinsing & washing sample cells
1	Container (4L) of Distilled Water	for rinsing sample cells & cleaning
1	Bottle of General Laboratory Cleaner (phosphate free)	for cleaning sample cells
4	Laboratory-grade Brushes	for cleaning sample cells
1	Lint-free Wipes (package of)	for cleaning sample cells
1	Paper Towels (package of)	for general cleaning
1	Dust Broom and Dust Pan	for cleaning
1	Garbage Can	for waste disposal
1	Rack to Hold Sample Vials	for storing and organizing
3	Certified Safety Glasses (CAN/CSA-Z94.3-92, Industrial Eye & Face Protectors)	for eye protection

2	Eyewash Bottle and Eye Wash Solution	for eye protection
2	Acid Resistant Neoprene Gloves (package of)	for hand protection
2	Disposable Gloves (package of)	for hand protection
1	Apron (neoprene latex bib style)	to protect clothing
1	N.W.T. No. 1 First Aid Kit in a Weather-proof Container (as per the NWT General Safety Regulations)	for first aid response

Water Treatment Plant Labs (Additional Equipment Recommended)

Quantity	Item	Purpose
1	HACH DR/890 Portable Colorimeter or Equivalent	for testing several parameters
1	HACH sensION1 Portable pH Meter or Equivalent	for testing pH
1	Thermometer with Case (-5 to 45 °C)	for testing water temperature
2	Sample Cells for Portable DR/890 Colorimeter (package of 6)	for testing several parameters
2	Iron (Total) Reagent Powder Pillows (package of 100) as required	for testing iron
2	Manganese (Low Range) Reagent Powder Pillows (package of 100)	for testing manganese
2	Other Reagent Powder Pillows (package of 100) as required	for testing other parameters
2	Buffers (pH 4.01, 7.01 and 10.01)	for calibrating pH meter
1	Electronic Scale	for measuring/weighing
2	1L Graduated Cylinder, Polypropylene.	for measuring
2	500mL Graduated Cylinder, Polypropylene	for measuring
2	1000mL Polypropylene Beaker	for measuring
2	250mL Polypropylene Beaker	for measuring
2	100mL Polypropylene Beaker	for measuring
2	250mL Flask with Screw Cap	for measuring
2	250mL Flask with Screw Cap	for measuring
2	500mL Graduated Pitcher	for measuring
6	Plastic Disposable Syringe (1mL with 0.1mL divisions)	for measuring
1	Case of Rags	for cleaning
3	Certified Respirators (CAN/CSA Z94.4-93, Selection, Use & Care of Respirators)	for breathing protection
1	Safety Equipment Kit for Chemical Spills	for spill remediation