



Water Testing Methods

Titrimetric

Titrimetric tests can be used to determine the concentration of a substance in a sample solution. After the sample is treated with an indicator, a standard titrant is added until a color change indicates a completed reaction. OMEGA® offers four separate types of titration methods, allowing a choice of precision and convenience.



WTNNO3-3110, nitrate test kit.

Automatic Buret

The self-zeroing automatic buret is calibrated from 0 to 10 mL in 0.1 mL increments. It is available with a squeeze valve (pinchcock), glass stopcock, or PTFE stopcock.

Direct Reading Titrator

The direct reading titrator is a 1.0 mL microburet calibrated to allow direct reading of the test result. Each titrator has a specific range, but may be refilled to test higher concentrations.

Dropper Pipet

The drop count test uses a pipet to provide fast, precise measurements in the field. The number of drops used before the color change is multiplied by a fixed factor to provide the test result.

Dropper Bottle

The dropper bottle test uses bottle tips which deliver a consistent, standard drop size to add titrant to the sample. As with the drop count test, the number of drops used to complete the reaction is multiplied by a given equivalence factor to determine the concentration.

To Order

Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
ACIDITY Titration with standard alkali to methyl orange or phenolphthalein endpoint	WTH-7182	HCl, H ₂ SO ₄ , H ₃ PO ₄	1 drop = 0.1 or 1.0% 50 at 10%	(2) Dropper Bottle
ALKALINITY Titration with standard acid to phenolphthalein (P) or total (T) alkalinity endpoint. Hydroxide determination (OH) uses barium pretreatment to eliminate carbonate interference. Test results are expressed as ppm CaCO ₃	WTOH-4491-DR	Total alkalinity direct reading titrator	0 to 200 ppm/4 ppm 50 at 200 ppm	(2)
	WTOH-4533-DR	P & T alkalinity direct reading titrator	0 to 200 ppm/4 ppm 50 at 200 ppm	(3)
	WTOH-4533	P & T alkalinity dropper pipet	1 drop = 10 ppm 50 at 200 ppm	(3)
	WTOH-3467*	P & T alkalinity direct reading titrator	0-200 ppm/4 ppm 50 at 200 ppm	(3)
	WTOH-7515	P, T, & OH alkalinity dropper pipet	1 drop = 10 ppm 50 at 200 ppm	(4)
ALUMINUM Eriochrome Cyanine R	WTAL-3569	Octet comparator	0, 0.1, 0.15, 0.2, 0.25, 0.3, 0.4, 0.5 ppm	50 (2)
AMMONIA NITROGEN Color development with Nessler or salicylate method. The salicylate method is preferred for salt water analysis and does not contain mercury as does the Nessler method	WTNH3-N-4795	Nessler Octet comparator	1.0, 2.0, 3.0, 4.0, 5.0, 6.0 7.0, 8.0 ppm	50 (2)
	WTNH3-N-3680	Nessler Colorimeter	0 to 5.0 ppm/0.05 ppm 0.4, 0.6, 1.0 ppm	100 (2)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

* Accepted by EPA National Primary Drinking Water Regulations (NPDWR) & by EPA National Pollutant Discharge Elimination Systems (NPDES)

Ordering Example: WTOH-4491-DR, total alkalinity direct reading titrator.



Individual Water Testing Kits



WTCO2-7297-DR, carbon dioxide testing kit.



WTCHEL-7144, chelant testing kit.

Convenient reagent refill packages available. When ordering, place prefix "R-" in front of Model Number. Contact OMEGA for price and delivery terms.

To Order

Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
BLEACH (See Chlorine Bleach)				
BROMINE Color development with DPD; titration using DPD and ferrous ammonium sulfate. With WTBR-6824 kit, bromine can be separated from chlorine determination using glycine	WTBR-6955	DPD tablet octet comparator	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm	50 (1)
	WTBR-6824	DPD tablet bromine in chlorine octet comparator	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm	50 (3)
CALCIUM (See Hardness)				
CARBON DIOXIDE Titration with standard alkali	WTCO2-7297-DR	Direct reading titrator	0 to 50 ppm/1.0 ppm 50 at 50 ppm	(2)
CAUSTIC Titration to phenolphthalein endpoint with standard acid	WTNAOH-7516-DR	Direct reading titrator	0 to 10%/0.2%, 50 at 10%	(4)
	WTNAOH-7181	Dropper bottle	1 drop = 0.1 or 1%, 50 at 10%	(3)
CHELANT Back titration with magnesium for free; titration with bismuth nitrate for total	WTCHEL-7144	Free chelant dropper bottle	1 drop = 2 ppm EDTA 1 drop = 2 ppm NTA	100 (3)
CHLORIDE Argentometric titration. Kits WTCL-7172 and WTCL-7247 contain hydrogen peroxide to eliminate sulfite interference	WTCL-3468*	Direct reading titrator	0 to 50 ppm/1 ppm	50 (2)
	WTCL-4503-DR	Direct reading titrator	0 to 200 ppm/4 ppm 0 to 20,000 ppm/400 ppm 50 at 200 ppm	(4)
	WTCL-7459	Salinity direct reading titrator	0 to 20 ppt/0.4 ppt 50 at 20 ppt	(2)
	WTCL-7172	Dropper bottle	1 drop = 10, 25, or 50 ppm 120 at 100 ppm	(5)
	WTCL-7247	Dropper bottle	1 drop = 2, 5, or 10 ppm 120 at 10 ppm	(5)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

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Ordering Example: **WTBR-6824**, DPD tablet bromine in chlorine test kit.



Convenient reagent refill packages available. When ordering, place prefix "R-" in front of Model Number. Contact OMEGA for price and delivery terms.

WTCL2-3176, chlorine test kit.

To Order

Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
CHLORINE				
Low concentrations of free, total, and various forms of combined chlorine are determined colorimetrically using DPD tablets or liquids, or by ferrous ammonium sulfate/DPD titration. Higher concentrations are best determined using iodometric titration, which indicates total chlorine only.				
Free & Total	WTCL2-6817*	DPD Tablet octet comparator	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm	50 (2)
	WTCL2-6819*	DPD Tablet octet comparator	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 ppm	50 (2)
	WTCL2-3308*	DPD Tablet octa-slide	0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0, 3.0 ppm	50 (2)
	WTCL2-3312*	DPD Tablet octa-slide	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 ppm	50 (2)
	WTCL2-3313*	DPD Tablet octa-slide	1.0, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0 ppm	50 (2)
	WTCL2-3314*	DPD Tablet 2 octa-slide	Low: 0.1 to 1.0 ppm High: 1.0 to 6.0 ppm	100 (2)
	WTCL2-3670-LI	DPD Liquid colorimeter	0 to 4.0 ppm/0.05 ppm	144 (3)
DPD-FAS Titration	WTCL2-3176*†	Direct reading titrator	0 to 10 ppm/0.2 ppm 50 at 10 ppm	(4)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

* Accepted by EPA National Primary Drinking Water Regulations (NPDR), EPA National Pollutant Discharge Elimination Systems (NPDES).

** Free and combined chlorine, bromine, iodine, chlorine mixtures, chlorine dioxide, chlorite, bromine, nitrogen trichloride, ozone, and ozone-chlorine mixtures.

† National Pollutant Discharge Elimination Systems (NPDES), EPA Accepted.

Ordering Example: WTCL2-6819, free and total chlorine tablet octet comparator.



Individual Water Testing Kits



Convenient reagent refill packages available. When ordering, place prefix "R-" in front of Model Number. Contact OMEGA for price and delivery terms.

WTCOLI-4-3616,
Coliform Test Kit.

To Order				
Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
CHLORINE...Continued				
<i>Iodometric Titration (For high chlorine levels)</i>	WTCL2-4501	Dropper pipet	1 drop = 1 ppm	50 (3)
<i>DPD Chlorine/pH phenol red combination</i>	WTCL2-6980	DPD tablet/ phenol red tablet 3 octet comparators	Low: 0.1 to 1.0 ppm High: 1.0 to 6.0 ppm pH: 6.8 to 8.2	200 (5)
CHLORINE BLEACH Iodometric titration	WTOCL-7894	Dropper pipet	1 drop = 0.005%, 0.05%, or 0.5% 50 at 0.1, or 10%	(3)
CHLORINE DIOXIDE Color analysis using DPD tablets with glycine	WTCLO2-3592	Octet comparator with axial reader	0.02, 0.6, 0.8, 2.0, 3.0, 5.0 ppm	50 (2)
COLIFORM	WTCOLI-4-3616	Tableted nutrient based on 5 tube MPN	Presence/Absence	1 (1)
COLOR Direct analysis with platinum cobalt color standards or visual matching by adding a standard color solution dropwise to uncolored water. Test results are APHA Standard Color Units.	WTWAV-3528	Octet comparator with axial reader	0, 20, 50, 80, 110, 140, 170, 200	Unlimited (0)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

Ordering Example: **WTWAV-3528**, color test kit dual range dropper pipet.



WTCU-6616, copper test kit.



WTCA-4824-LT-01, hardness test kit.

To Order				
Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
COPPER Diethyldithiocarbamate colorimetric analysis	WTCU-6616	Octet comparator with axial reader	0, 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50 ppm	50 (1)
	WTCU-3673	Colorimeter	0 to 8 ppm/0.03 ppm	100 (1)
DETERGENTS (Anionic) Reaction with bromphenol blue, extraction, addition of standard color solution	WTDT-4507	Dropper pipet	1 drop = 1.0 ppm 60 at 5.0 ppm	(3)
HARDNESS EDTA titration is used for determinations. All kits express results as CaCO ₃ . Some also express results as gpg. Kit WTCA-3609 has conversion factor for Ca ⁺⁺ . The -LI suffix indicates an all liquid reagent system; the -LT suffix indicates system using a liquid buffer and a tablet indicator	WTCA-3609	Fresh & salt water hardness direct reading titrator	0 to 200 ppm/4 ppm	50 (3)
	WTCA-4482-DR-LI	Total hardness direct reading titrator	0 to 200 ppm/4ppm 50 at 200 ppm	(3)
	WTCA-4482-LI	Total hardness dropper pipet	1 drop = 10 ppm or 1 gpg 50 at 200 ppm or 20 gpg	(3)
	WTCA-4482-DR-LT	Total hardness direct reading titrator	0 to 200 ppm/4 ppm 50 at 200 ppm	(3)
	WTCA-4824-LT-01	Calcium, magnesium, total hardness dropper pipet	1 drop = 10 ppm or 1 gpg 50 at 200 ppm or 20 gpg	(5)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

* National Primary Drinking Water Regulations (NPDWR), EPA Accepted.

Ordering Example: WTCA-3609, fresh and salt water hardness direct reading titrator water kit.



WATER & SOIL INSTRUMENTS

Individual Water Testing Kits



To Order				
Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
HARDNESS ...Continued	WTCA-4824-DR-LT	Calcium, magnesium, & total hardness direct reading titrator	0 to 200 ppm/4 ppm 50 at 200 ppm	(5)
	WTCA-3037-DR	Low range total hardness direct reading titrator	0 to 10 ppm/0.2 ppm 50 at 10 ppm	(3)
	WTCA-7171	Total hardness dropper bottle	1 drop = 10, 25, or 50 ppm	100 (3)
	WTCA-7246	Total hardness dropper bottle	1 drop = 2, 5, or 10 ppm	100 (3)
HYDROGEN PEROXIDE Colorimetric analysis with DPD; iodometric titration	WTH202-3188	DPD tablet octet comparator	Low: 0.1, 0.3, 0.5, 0.75, 1.0, 1.25, 1.5, 2.0 ppm High: 2, 6, 10, 15, 20, 25, 30, 40 ppm	50 (2)
IODINE Iodometric titration	WTI-7253-DR	Direct reading titrator	0 to 50 ppm/1 ppm 50 at 50 ppm	(3)
	WTI-7253	Dropper pipet	1 drop = 2.5 ppm 100 at 25 ppm	(3)
IRON Bipyridyl colorimetric analysis of total iron as well as ferrous/ferric. 1,10 Phenanthroline total iron analysis is used in DC1100 colorimeter kit	WTFE-3347	Total Iron octet comparator	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm	100 (2)
	WTFE-7787	Total Iron octet comparator with axial reader	0.05, 0.10, 0.20, 0.30, 0.40, 0.60, 0.80, 1.0 ppm	50 (2)
	WTFE-3681	Total Iron 1, 10 phenanthroline colorimeter	0 to 4.0 ppm/0.25 ppm	100 (2)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

* National Primary Drinking Water Regulations (NPDWR), EPA Accepted. † National Pollutant Discharge Elimination Systems (NPDES), EPA Accepted.

Ordering Example: WTH202-3188, hydrogen peroxide water test kit.



WTMO-6628, molybdate/molybdenum test kit.



WTNNO3-3615, nitrate nitrogen test kits.

To Order				
Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
LEAD Presence of lead in solder may be tested using sodium rhodizonate. Banned for household use.	WTPB-3582	Spot plate plumbing inspector kit	Yes/No	100 (3)
MOLYBDATE/MOLYBDENUM Determined colorimetrically using xanthate or thioglycolate method, or by titration with citric acid	WTMO-6628	Xanthate, sodium molybdate octet comparator	1, 2, 3, 4, 5, 6, 8, 10 ppm	100 (2)
	WTMO-3346	Thioglycolate, molybdate octa-slide	30, 60, 90, 120, 150, 180, 240, 300 ppm	50 (2)
MORPHOLINE Colorimetric analysis using naphthoquinone sulfonic acid salt	WTMOR-3133	Octet comparator	0, 1, 2, 4, 5, 6, 8, 10 ppm	100 (5)
NITRATE NITROGEN Determined colorimetrically by diazotization/coupling reaction after reduction to nitrite by cadmium. Results expressed as NO ₃ -N; Phosphate test in kit WTNNO3-3119 uses ascorbic acid reduction	WTNNO3-3110	Octet comparator	0.25, 0.5, 1.0, 2.0, 4.0, 6.0, 8.0, 10.0 ppm	40 (2)
	WTNNO3-3615	Octet comparator with axial reader	0, 0.2, 0.4, 0.6, 0.8, 1.0 ppm	50 (2)
	WTNNO3-3677	Cadmium reduction colorimeter	0 to 3.0 ppm/0.05 ppm	50 (2)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

Ordering Example: WTMO-6628, molybdate/molybdenum.



Individual Water Testing Kits

Convenient reagent refill packages available. When ordering, place prefix "R-" in front of Model Number. Contact OMEGA for price and delivery terms.



WTH202-7191, peracetic acid.

To Order

Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
NITRITE NITROGEN Determined colorimetrically by diazotization/coupling. Kit WTNNO2-7421 reports as $\text{NO}_2^- \text{N}$; kit	WTNNO2-7421	Octet comparator	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8 ppm	50 (3)
NITRITE, SODIUM Titration using permanganate or ceric ammonium nitrate (CAN). Results reported as NaNO_2	WTNO2NA-7101-DR	Permanganate direct reading titrator	0 to 1000 ppm/20 ppm 50 at 1000 ppm	(2)
	WTNO2NA-7101	Permanganate dropper pipet	1 drop = 50 or 100 ppm 50 at 1000 or 2000 ppm	(2)
	WTNO2NA-3036-DR	CAN direct reading titrator	0 to 1000 ppm/20 ppm 50 at 1000 ppm	(2)
	WTNO2NA-7183	CAN dropper bottle	1 drop = 50 ppm 50 at 1000 ppm	(2)
OXYGEN, DISSOLVED Azide modification of Winkler method	WTDO-5860	All liquid reagents direct reading titrator	0 to 10 ppm/0.2 ppm 50 at 10 ppm	(5)
OZONE Colorimetric determination using DPD or indigo trisulfonate. The WTO3-3678 indigo kit can test for ozone in the presence of chlorine	WTO3-3526	DPD tablet octet comparator with axial reader	0.01, 0.03, 0.07, 0.11, 0.2, 0.4, 0.7, 1.0 ppm	50 (2)
	WTO3-3678	Indigo trisulfonate Colorimeter	0 to 0.4 ppm/0.04 ppm	100 (3)
PERACETIC ACID/HYDROGEN PEROXIDE Cerium titration of peroxide with subsequent Iodometric titration of peracetic acid	WTH202-7191	Dropper bottle	1 drop = 50 ppm peroxide 1 drop = 15 ppm peracetic acid	50 (5)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

† National Pollutant Discharge Elimination Systems (NPDES), EPA Accepted.

Ordering Example: **WTNNO2-7421**, nitrite nitrogen, octet comparator water test kit.



WTPO4-3114, phosphate test kit.



WTPHOS-7530-DR, phosphonate test kit.

To Order

Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
PHENOLS Aminoantipyrine color development	WTPHEN-7824	Octet comparator with axial reader	0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0 ppm	50 (3)
PHOSPHATE Ascorbic acid or stannous chloride reduction after forming molybdate complex yields a blue color. Comparator Vanadate molybdate method yields yellow color. All kits determine orthophosphate concentrations. The ascorbic acid method must be used when testing salt water	WTPO4-3114	Ascorbic acid octet comparator	0.5, 1, 2, 3, 4, 6, 8, 10 ppm and 5, 10, 20, 30, 40, 60, 80, 100 ppm	50 (2)
	WTPO4-3121	Ascorbic acid octet comparator with axial reader	0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.5, 2.0 ppm	50 (2)
	WTPO4-7416	Stannous chloride octet comparator with axial reader	0.05, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0 ppm	50 (2)
	WTPO4-4401	Vanadate molybdate octet comparator	10, 20, 30, 40, 50, 60, 70, 80 ppm	50 (1)
PHOSPHONATE Thorium titration using xylenol orange indicator (testing Dequest) or chrome azurol S indicator (testing Bayhibit or Dequest). The xylenol orange method uses a fluoride inhibitor. All kits list equivalences for various phosphonates	WTPHOS-7625-DR	CAS direct reading titrator	0 to 20 ppm/0.4 ppm HEDP/PBTC 50 at 20 ppm	(5)
	WTPHOS-7625	CAS dropper pipet	1 drop = 1 ppm HEDP/PBTC 50 at 20 ppm	(5)
	WTPHOS-7530-DR	XO direct reading titrator	0 to 20 ppm/0.4 ppm NaAMP 50 at 20 ppm	(5)
	WTPHOS-7530-WT	XO dropper bottle	1 drop = 1 ppm NaAMP 50 at 20 ppm	(5)

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† National Pollutant Discharge Elimination Systems (NPDES), EPA Accepted.

Ordering Example: WTPO4-3114, phosphate ascorbic acid octet comparator water test kit.



Individual Water Test Kits



WTSAL-7459, salinity test kit.



WTSI-4463, silica test kit.

To Order				
Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
POLYQUAT Polyelectrolytic titration using toluidine blue indicator	WTPQUAT-7056	Dropper bottle	1 drop = 1 ppm	100+ (5)
POTASSIUM Sodium tetraphenylboron turbidimetric reaction	WTK-3138	Turbidity reading tube	6, 8, 10, 20, 30, 40, 50 ppm	100 (2)
QAC The kit WTQAC-3043-DR uses a titration with sodium tetraphenyl boron. The kit WTQAC-7057 uses a titration with a polyelectrolyte in the presence of toluidine blue	WTQAC-3043-DR	Direct reading titrator	0 to 500 ppm/10 ppm 50 at 500 ppm	(2)
	WTQAC-7057	Dropper bottle	1 drop = 2, 5, or 10 ppm	100+ (5)
SALINITY Argentometric titration	WTSAL-7459	Direct reading titrator	0 to 40 ppt/0.4 ppt 50 at 20 ppt	(2)
SILICA Molybdosilicate color reaction	WTSI-4463	Octet comparator	0.5, 1.0, 2.0, 3.0, 4.0, 6.0, 8.0, 10.0 ppm or 5, 10, 20, 30, 40, 60, 80, 100 ppm	50 (4)
SODIUM NITRITE (See Nitrite, Sodium)				
SULFATE Turbidimetric analysis after reaction with barium	WTSO4-7778	Tablet octet comparator	20, 40, 60, 80, 100, 120, 160, 200 ppm	50 (1)
	WTSO4-3683	colorimeter	0 to 100 pm/1.0 ppm	100 (1)

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Ordering Example: WTSO4-7778, sulfate tablet octet comparator.



WTSO3-7132, sulfite test kit.

Convenient reagent refill packages available.
When ordering, place prefix "R-"
in front of Model Number. Contact
OMEGA for price and delivery terms.

To Order				
Factor & Method	Model No.	Test System	Range/Sensitivity	# of Tests (# Reagents)
SULFIDE Pomeroy methylene blue method	WTS-4456†	Total sulfide octet comparator	0.2, 0.5, 1.0, 2.0, 5.0, 10.0, 15.0, 20.0 ppm	50 (3)
	WTSO3-7132	Dropper bottle	1 drop = 2, 5, or 10 ppm	100+ (3)
SULFITE Iodometric titration. Results expressed as SO ₃	WTSO3-7175-DR	Direct reading titrator	0 to 100 ppm/2 ppm 50 at 100 ppm	(3)
	WTSO3-7175	Dropper pipet	1 drop = 5 ppm 50 at 100 ppm	(3)
TANNIN/LIGNIN Tungsto-molybdophosphoric acid color reaction	WTTAN-7831	Octet comparator	1, 2, 3, 4, 5, 6, 8, 10 ppm	50 (2)
TURBIDITY Comparison of reacted sample with unreacted sample while adding standard turbidity reagent	WTTURB-7519	Dropper pipet	5 to 100 JTU/5 JTU, 10 to 200 JTU/10 JTU 50 at 10 or 20 JTU	(1)
ZINC Buffered zincon colorimetric analysis	WTZN-7391-01	Octet comparator	0, 1, 2, 3, 4, 6, 8, 10 ppm	50 (2)
	WTZN-7417-01	Octet comparator	0, 0.2, 0.4, 0.6, 0.8, 1.0, 1.2, 1.4 ppm	50 (2)

Kit contents vary. Each kit comes complete with everything necessary to perform the specified test.

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† National Pollutant Discharge Elimination Systems (NPDES), EPA Accepted.

Ordering Example: WTSO3-7132, sulfite dropper bottle water test kit.