



WATER SUPPLY

Matrices with low concentrations of analytes for testing water supply, drinking water, or ground water. Standards are based on requirements of the United States Environmental Protection Agency Safe Drinking Water Act and may be used to satisfy PT requirements worldwide.

Water Supply PT Schedule 2020

	Scheme #	Opens	Closes
Q	WS 282	Jan 6	Feb 20
	WS 283	Feb 3	Mar 19
	WS 284	Mar 2	Apr 16
Q	WS 285	Apr 6	May 21
	WS 286	May 4	Jun 18
	WS 287	Jun 1	Jul 16
Q	WS 288	Jul 6	Aug 20
	WS 289	Aug 3	Sep 17
	WS 290	Sep 1	Oct 16
Q	WS 291	Oct 2	Nov 16
	WS 292	Nov 2	Dec 17
	WS 293	Dec 4	Jan 18, 2021

2021

	Scheme #	Opens	Closes
Q	WS 294	Jan 11	Feb 25
	WS 295	Feb 8	Mar 25
	WS 296	Mar 8	Apr 22
Q	WS 297	Apr 5	May 20
	WS 298	May 10	Jun 24
	WS 299	Jun 7	Jul 22
Q	WS 300	Jul 12	Aug 26
	WS 301	Aug 9	Sep 23
	WS 302	Sep 7	Oct 22
Q	WS 303	Oct 8	Nov 22
	WS 304	Nov 5	Dec 20
	WS 305	Dec 6	Jan 20, 2022

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CRM: A reference material characterized by a metrologically valid procedure for one or more specified properties, accompanied by a reference material certificate that provides the value of the specified property, its associated uncertainty, and a statement of metrological traceability.

A complete listing of ERA's CRMs can be found on our Scope of Accreditation for general requirements for competence of reference material producers available at www.eraqc.com/AboutERA/Accreditations.

PT: A Proficiency Test (PT) is an analysis of what is often referred to as a blind sample or a sample with unknown concentrations of analytes for the purpose of evaluating a laboratory's analytical performance.

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QR: Similar to a Proficiency Test, a QuiK Response (QR) is a sample with unknown concentrations. However, unlike a scheduled PT, QR is on-demand and available at any time. Plus, your results are returned within two business days. QuiK Response can be used as a bilateral PT as referenced in the IUPAC/CITAC guide: Selection and use of PT schemes for a limited number of participants – chemical analytical labs.

RM: A material, sufficiently homogeneous and stable with respect to one or more specified properties, which has been established to be fit for its intended use in a measurement process.

All Waters ERA WS PTs open monthly (**M**), quarterly (**Q**), or biannually (**B**) unless otherwise noted. Quarterly months are January, April, July, and October. Biannual months are January and July.

Minerals/Solids

Hardness

CRM Cat. #693	PT Cat. #555	M	QR Cat. #693QR
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One 250 mL whole-volume bottle is ready to analyze.

Calcium.....	30-90 mg/L
Calcium hardness as CaCO ₃	75-225 mg/L
Total hardness as CaCO ₃	83-307 mg/L
Magnesium.....	2-20 mg/L
Sodium.....	12-50 mg/L

Inorganics

CRM Cat. #698	PT Cat. #591	M	QR Cat. #698QR
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One 500 mL whole-volume bottle is ready to analyze. The CRM is also certified for sodium at 10-400 mg/L. For a sodium PT, order Hardness, Cat. #555.

Alkalinity as CaCO ₃	25-200 mg/L
Chloride.....	20-160 mg/L
Fluoride.....	1-8 mg/L
Nitrate as N.....	3-10 mg/L
Nitrate plus nitrite as N.....	3-10 mg/L
Potassium.....	10-40 mg/L
Specific conductance at 25 °C.....	130-1300 µmhos/cm
Sulfate.....	25-250 mg/L
Total dissolved solids (TDS) at 180 °C.....	100-1000 mg/L

Solids Concentrate

CRM Cat. #5152	PT Cat. #5150	M	QR Cat. #5152QR
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One 24 mL screw-cap vial with a powder yields 1 liter after dilution.

Total filterable residue (TDS) at 180 °C.....	100-1000 mg/L
Total solids (TS) at 105 °C.....	123-1100 mg/L
Total suspended solids (TSS).....	23-100 mg/L

The Industry Standard
for over 40 years



Kyle Jordan
Account Manager

Years with Waters ERA: 1

Trace Metals

Metals

CRM Cat. #697	PT Cat. #590	M	QR Cat. #697QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution. Use with ICP-OES, ICP-MS, and AA methods.

Aluminum.....	130-1000 µg/L
Antimony.....	6-50 µg/L
Arsenic.....	5-50 µg/L
Barium.....	500-3000 µg/L
Beryllium.....	2-20 µg/L
Boron.....	800-2000 µg/L
Cadmium.....	2-50 µg/L
Chromium.....	10-200 µg/L
Copper.....	50-2000 µg/L
Iron.....	100-1800 µg/L
Lead.....	5-100 µg/L
Manganese.....	40-900 µg/L
Molybdenum.....	15-130 µg/L
Nickel.....	10-500 µg/L
Selenium.....	10-100 µg/L
Silver.....	20-300 µg/L
Thallium.....	2-10 µg/L
Vanadium.....	50-1000 µg/L
Zinc.....	200-2000 µg/L

Mercury

CRM Cat. #666	PT Cat. #551	M	QR Cat. #666QR
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One 15 mL screw-cap vial yields up to 1 liter after dilution. Use with CVAA, ICP-MS, or CVAFS methods.

Total mercury.....	0.5-10 µg/L
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Hexavalent Chromium

CRM Cat. #658	PT Cat. #854	Q	QR Cat. #658QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution.

Hexavalent chromium.....	5-50 µg/L
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Uranium

CRM Cat. #930	PT Cat. #858	Q	QR Cat. #930QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution. Use with ICP-MS methods.

Uranium.....	3-104 µg/L
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Vanadium

CRM Cat. #660	PT Cat. #856	Q	QR Cat. #660QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution. Designed to meet California ELAP requirements.

Vanadium.....	5-50 µg/L
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Disinfection By-Products

Chloral Hydrate

CRM Cat. #676	PT Cat. #853	B	QR Cat. #676QR
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One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Use with EPA Method 551, or other applicable method. Includes chloral hydrate at 4–30 µg/L.

B Waters ERA WS Chloral Hydrate PTs open in January and July.

Haloacetic Acids (HAA)

CRM Cat. #684	PT Cat. #852	M	QR Cat. #684QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Method 552, or other applicable method. Includes all the analytes below at 5–50 µg/L.

Bromochloroacetic acid	Dichloroacetic acid	Monochloroacetic acid
Dibromoacetic acid	Monobromoacetic acid	Trichloroacetic acid

Inorganic Disinfection #1

CRM Cat. #5272	PT Cat. #5270	M	QR Cat. #5272QR
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One 24 mL screw-cap vial yields up to 4 liters after dilution.

Chlorate.....	60–180 µg/L
Chlorite.....	100–1000 µg/L

Inorganic Disinfection #2

CRM Cat. #5262	PT Cat. #5260	M	QR Cat. #5262QR
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One 24 mL screw-cap vial yields up to 4 liters after dilution.

Bromate.....	7–50 µg/L
Bromide.....	50–300 µg/L

Nutrients

Ammonia as N

CRM Cat. #1359	PT Cat. #1319	B	QR Cat. #1359QR
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One 15 mL screw-cap vial yields up to 1 liter after dilution.

Ammonia as N.....0.1–1 mg/L

B Waters ERA WS Ammonia as N PTs open in January and July.

Nitrite

CRM Cat. #695	PT Cat. #594	M	QR Cat. #695QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution.

Nitrite as N.....0.4–2 mg/L

o-Phosphate Nutrients

CRM Cat. #667	PT Cat. #558	M	QR Cat. #667QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution.

ortho-Phosphate as P.....0.5–5.5 mg/L

Miscellaneous Inorganic

Residual Chlorine

CRM Cat. #696	PT Cat. #593	M	QR Cat. #696QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution.

Total residual chlorine.....	0.5–3 mg/L
Free residual chlorine.....	0.5–3 mg/L

Cyanide

CRM Cat. #983	PT Cat. #556	M	QR Cat. #983QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution. Source material is free cyanide.

Free cyanide.....	0.1–0.5 mg/L
Total cyanide.....	0.1–0.5 mg/L
Cyanide.....	0.1–0.5 mg/L

CRM – Certified Reference Material

PT – Proficiency Testing

QR – QuiK Response

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Miscellaneous Inorganic (continued)

Organic Carbon

CRM Cat. #669	PT Cat. #557	M	QR Cat. #669QR
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One 15 mL screw-cap vial yields up to 1 liter after dilution.

Total organic carbon.....1.3–13 mg/L
Dissolved organic carbon.....1.3–13 mg/L

Perchlorate

CRM Cat. #910	PT Cat. #903	Q	QR Cat. #910QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution.

Perchlorate.....4–20 µg/L

pH

CRM Cat. #779	PT Cat. #552	M	QR Cat. #779QR
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One 250 mL whole-volume bottle is ready to analyze.

pH.....5–10 units

Silica

CRM Cat. #785	PT Cat. #902	Q	QR Cat. #785QR
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One 60 mL poly bottle yields 1 liter after dilution.

Silica as SiO₂.....5–75 mg/L

Surfactants-MBAS

CRM Cat. #784	PT Cat. #901	Q	QR Cat. #784QR
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One 15 mL screw-cap vial yields up to 2 liters after dilution.

Surfactants-MBAS.....0.1–1 mg/L

Physical Property

Color

CRM Cat. #661	PT Cat. #859	Q	QR Cat. #661QR
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One 125 mL whole-volume bottle is ready to analyze.

Color.....10–75 PC units

Corrosivity

CRM Cat. #980	PT Cat. #900	Q	QR Cat. #980QR
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One 500 mL whole-volume bottle is ready to analyze for corrosivity, calcium carbonate saturation, and Langelier Saturation Index.

Corrosivity.....–4 to +4 SI units

Turbidity

CRM Cat. #699	PT Cat. #592	M	QR Cat. #699QR
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One 15 mL screw-cap vial yields up to 1 liter after dilution. Use with nephelometric methods.

Turbidity.....0.5–8 NTU

UV 254 Absorbance

CRM Cat. #662	PT Cat. #904	Q	QR Cat. #662QR
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One 15 mL screw-cap vial yields up to 1 liter after dilution.

UV 254 absorbance.....0.05–0.7 cm⁻¹

Our stabilized turbidity calibration solutions give you an affordable alternative to costly turbidity consumables and deliver accurate results to help stretch your facility's budget.

View our Turbidity Standards on page 101.



Volatile Organics

1,4-Dioxane

**NEW
PRODUCT**

CRM Cat. #689	PT Cat. #272	B	QR Cat. #689QR
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One 2 mL flame-sealed ampule yields 500 mL after dilution. Use with EPA method 522.

1,4-Dioxane.....0.1-10 µg/L

Gasoline Additives

CRM Cat. #909	PT Cat. #905	Q	QR Cat. #909QR
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One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Use with EPA Method 524.2, or other applicable method for gasoline additives/oxygenates. Contains all of the analytes below at 5-50 µg/L.

tert-Amyl methyl ether (TAME)	Ethyl tert-butyl ether (ETBE)	Trichlorofluoromethane
tert-Butyl alcohol	Methyl tert-butyl ether (MTBE)	(Freon® 11)
Di-isopropylether (DIPE)		Trichlorotrifluoroethane
		(Freon 113)

Halomethanes (THMs)

CRM Cat. #702	PT Cat. #842	M	QR Cat. #702QR
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One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Use with EPA Methods 502.2, 524.2, 551, or other applicable method. Contains all of the analytes below at 5-50 µg/L.

Bromodichloromethane	Chlorodibromomethane	Chloroform
Bromoform		

Regulated Volatiles

CRM Cat. #703	PT Cat. #840	M	QR Cat. #703QR
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One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Use with EPA Methods 502.2, 524.2, or other applicable method. Contains all of the analytes below at 2-50 µg/L.

Benzene	cis-1,2-Dichloroethylene	Toluene
Carbon tetrachloride	trans-1,2-Dichloroethylene	1,2,4-Trichlorobenzene
Chlorobenzene	1,2-Dichloropropane	1,1,1-Trichloroethane
1,2-Dichlorobenzene	Ethylbenzene	1,1,2-Trichloroethane
1,4-Dichlorobenzene	Methylene chloride	Trichloroethylene
1,2-Dichloroethane	Styrene	Vinyl chloride
1,1-Dichloroethylene	Tetrachloroethylene	Xylenes, total

Unregulated Volatiles

CRM Cat. #683	PT Cat. #841	M	QR Cat. #683QR
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One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Use with EPA Methods 502.2, 524.2, or other applicable method. Contains at least 60% of the analytes randomly selected from the list below at 2-50 µg/L.

Bromobenzene	1,3-Dichlorobenzene	4-Isopropyltoluene
Bromochloromethane	Dichlorodifluoromethane	Methyl tert-butyl ether (MTBE)
Bromomethane	1,1-Dichloroethane	Naphthalene
n-Butylbenzene	1,3-Dichloropropane	n-Propylbenzene
sec-Butylbenzene	2,2-Dichloropropane	1,1,1,2-Tetrachloroethane
tert-Butylbenzene	1,1-Dichloropropene	1,1,2,2-Tetrachloroethane
Chloroethane	cis-1,3-Dichloropropene	1,2,3-Trichlorobenzene
Chloromethane	trans-1,3-Dichloropropene	1,2,3-Trichloropropane
2-Chlorotoluene	Fluorotrichloromethane	1,2,4-Trimethylbenzene
4-Chlorotoluene	Hexachlorobutadiene	1,3,5-Trimethylbenzene
Dibromomethane	Isopropylbenzene	

CRM – Certified Reference Material

PT – Proficiency Testing

QR – QuiK Response

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Per- and Polyfluoroalkyl Substances (PFAS)

PFAS Drinking Water

NEW ANALYTES

CRM Cat. #735	PT Cat. #960	Q	QR Cat. #735QR
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One 2 mL flame sealed ampule yields in excess of 1.5 L after dilution. Use with EPA method 537. The diluted standard will contain 6-8 analytes in each lot selected from the list below.

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS).....	50-500 ng/L
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS).....	50-500 ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA).....	50-500 ng/L
4,8-dioxo-3H-perfluorononanoic acid (DONA).....	50-500 ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA).....	100-1000 ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA).....	50-500 ng/L
Perfluorobutanesulfonic acid (PFBS).....	100-1000 ng/L
Perfluorodecanoic acid (PFDA).....	50-500 ng/L
Perfluorododecanoic acid (PFDoA).....	50-500 ng/L
Perfluoroheptanoic acid (PFHpA).....	50-500 ng/L
Perfluorohexanesulfonic acid (PFHxS).....	50-500 ng/L
Perfluorohexanoic acid (PFHxA).....	50-500 ng/L
Perfluorononanoic acid (PFNA).....	50-500 ng/L
Perfluorooctanesulfonic acid (PFOS).....	50-500 ng/L
Perfluorooctanoic acid (PFOA).....	50-500 ng/L
Perfluorotetradecanoic acid (PFTDA).....	50-500 ng/L
Perfluorotridecanoic acid (PFTrDA).....	50-500 ng/L
Perfluoroundecanoic acid (PFUnDA).....	50-500 ng/L

PFAS Ground Water & Surface Water

NEW ANALYTES

CRM Cat. #731	PT Cat. #929	Q	QR Cat. #731QR
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One 2 mL flame sealed ampule yields in excess of 1.5 L after dilution. Design is suitable for methods analyzing ground water or surface water. Use with LC/MS/MS techniques. The diluted standard will contain 6-12 analytes in each lot selected from the list below.

11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS).....	100-500 ng/L
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS).....	100-500 ng/L
4,8-dioxo-3H-perfluorononanoic acid (DONA).....	100-500 ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA).....	100-500 ng/L
1H, 1H, 2H, 2H-Perfluorodecanesulfonic acid (8:2 FTS).....	100-500 ng/L
1H, 1H, 2H, 2H-Perfluorohexanesulfonic acid (4:2 FTS).....	100-500 ng/L
1H, 1H, 2H, 2H-Perfluorooctanesulfonic acid (6:2 FTS).....	100-500 ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA).....	100-500 ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA).....	100-500 ng/L
Perfluorobutanesulfonic acid (PFBS).....	100-500 ng/L
Perfluorobutanoic acid (PFBA).....	100-500 ng/L
Perfluorodecane sulfonic acid (PFDS).....	100-500 ng/L
Perfluorodecanoic acid (PFDA).....	100-500 ng/L
Perfluorododecanoic acid (PFDoA).....	100-500 ng/L
Perfluoroheptane sulfonic acid (PFHpS).....	100-500 ng/L
Perfluoroheptanoic acid (PFHpA).....	100-500 ng/L
Perfluorohexanesulfonic acid (PFHxS).....	100-500 ng/L
Perfluorohexanoic acid (PFHxA).....	100-500 ng/L
Perfluorononane sulfonic acid (PFNS).....	100-500 ng/L
Perfluorononanoic acid (PFNA).....	100-500 ng/L
Perfluorooctane sulfonamide (PFOSAm).....	100-500 ng/L
Perfluorooctanesulfonic acid (PFOS).....	100-500 ng/L
Perfluorooctanoic acid (PFOA).....	100-500 ng/L
Perfluoropentanoic acid (PFPeA).....	100-500 ng/L
Perfluoropentane sulfonic acid (PFPeS).....	100-500 ng/L
Perfluorotetradecanoic acid (PFTDA).....	100-500 ng/L
Perfluorotridecanoic acid (PFTrDA).....	100-500 ng/L
Perfluoroundecanoic acid (PFUnDA).....	100-500 ng/L

Pesticides

Pesticides

CRM Cat. #709	PT Cat. #850	M	QR Cat. #709QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Methods 505, 507, 508, 525, or other applicable method for organochlorine, nitrogen, and organophosphorus pesticides. Each standard contains at least 14 analytes randomly selected from the list below at 0.2-20 µg/L.

Alachlor	Heptachlor	Metribuzin
Aldrin	Heptachlor epoxide (beta)	Molinate (ordram)
Atrazine	Hexachlorobenzene	Prometon
Bromacil	Hexachlorocyclopentadiene	Propachlor
Butachlor	Lindane (gamma-BHC)	Simazine
Diazinon	Methoxychlor	Thiobencarb
Dieldrin	Metolachlor	Trifluralin
Endrin		

Carbamate/Carbamoxylloxime Pesticides

CRM Cat. #707	PT Cat. #846	M	QR Cat. #707QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Methods 531.1, 531.2, 632, or other applicable method. Each standard contains at least 8 of the analytes below at 15-150 µg/L.

Aldicarb	Carbaryl	Methiocarb
Aldicarb sulfone	Carbofuran	Methomyl
Aldicarb sulfoxide	3-Hydroxycarbofuran	Oxamyl
Baygon		

Chlordane

CRM Cat. #705	PT Cat. #845	M	QR Cat. #705QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Methods 505, 508, 525, or other applicable method. Each standard contains technical chlordane at 2-20 µg/L.

Toxaphene

CRM Cat. #700	PT Cat. #844	M	QR Cat. #700QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Methods 505, 508, 525, or other applicable method. Each standard contains toxaphene at 2-20 µg/L.



GET AHEAD OF INCREASING PFAS DEMANDS

PFASs have long been a contaminant of concern for environmental waters, but they are now emerging in food safety concerns. Laboratories are seeking fast and sensitive solutions to rapidly detect these pollutants in surface, ground, and waste waters to help target remediation efforts and prevent food chain contamination.

Waters offers robust analytical solutions to meet advisory levels for legacy and emerging PFASs:

- LC-MS/MS to reach detection limits in the low-to-sub ng/L range
- SPE sample preparation that allows for sample enrichment to increase sensitivity
- Large volume direct injection method to speed up analysis time
- Employ dependable solutions for POPs and chemical contaminant analysis.

Pesticides (continued)

EDB/DBCP/TCP

CRM Cat. #706	PT Cat. #847	M	QR Cat. #706QR
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One 2 mL flame-sealed ampule yields in excess of 200 mL after dilution. Use with EPA Methods 504, 551, or other applicable method. Each lot contains all analytes below at 0.05–2 µg/L.

1,2-Dibromo-3-chloropropane (DBCP)
Ethylene dibromide (EDB)

1,2,3-Trichloropropane (1,2,3-TCP)

Low-Level 1,2,3-TCP

CRM Cat. #682	PT Cat. #596	B	QR Cat. #682QR
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One 2 mL flame-sealed ampule yields 100 mL after dilution. Use with California method SRL 524M, or other applicable method. Each standard contains 1,2,3-Trichloropropane (TCP) at 5–100 ng/L after dilution.

B Low-Level 1,2,3-TCP available in January and July.

Semivolatile Organics

Dioxin

CRM Cat. #663	PT Cat. #857	Q	QR Cat. #663QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Methods 613, 1613, 8280, 8290, or other applicable method. Each standard contains 2,3,7,8-TCDD at 20–100 pg/L.

PCBs as Decachlorobiphenyl

CRM Cat. #708	PT Cat. #839	Q	QR Cat. #708QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Quantitative Method 508A. This standard can also be used for aroclor identification and quantification using EPA Methods 505, 508, 508.1, or other applicable method. Includes an aroclor randomly selected from the list below at 0.5–5 µg/L as decachlorobiphenyl.

Aroclor 1016
Aroclor 1221
Aroclor 1232

Aroclor 1242
Aroclor 1248

Aroclor 1254
Aroclor 1260

Semivolatile Organics (continued)

Semivolatiles #1

CRM Cat. #690	PT Cat. #848	M	QR Cat. #690QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Methods 506, 525, 550, or other applicable method for PAHs, phthalates, and adipates. Each standard contains benzo(a)pyrene, bis(2-ethylhexyl)adipate, and bis(2-ethylhexyl)phthalate plus at least 13 additional analytes, selected from the list below, at 0.2–50 µg/L.

Acenaphthene	Butyl benzyl phthalate	bis(2-Ethylhexyl)phthalate
Acenaphthylene	Chrysene	Fluoranthene
Anthracene	Dibenz(a,h)anthracene	Fluorene
Benzo(a)anthracene	Di-n-butyl phthalate	Indeno(1,2,3-cd)pyrene
Benzo(b)fluoranthene	Diethyl phthalate	Naphthalene
Benzo(k)fluoranthene	Dimethyl phthalate	Phenanthrene
Benzo(g,h,i)perylene	Di-n-octyl phthalate	Pyrene
Benzo(a)pyrene	bis(2-Ethylhexyl)adipate	

Naphthalene is not within the EPA/NELAC range. Use the Unregulated Volatiles standard (page 27 for this compound in the EPA/NELAC range).

Herbicides

Chlorinated Acid Herbicides

CRM Cat. #704	PT Cat. #851	M	QR Cat. #704QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Methods 515.1, 515.2, 515.3, 515.4, 555, or other applicable method. All lots include at least 10 analytes from the list below at 1–120 µg/L.

Acifluorfen	Dalapon	4-Nitrophenol
Bentazon	Dicamba	Pentachlorophenol
Chloramben	3,5-Dichlorobenzoic acid	Picloram
2,4-D	Dichlorprop	2,4,5-T
2,4-DB	Dinoseb	2,4,5-TP (silvex)
Dacthal diacid (DCPA)		

Semivolatiles #2 Herbicides

CRM Cat. #691	PT Cat. #849	M	QR Cat. #691QR
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One 2 mL flame-sealed ampule yields up to 2 liters after dilution. Use with EPA Methods 547, 548, 549, or other applicable method. Each standard contains all the analytes below at 8–800 µg/L.

Diquat	Glyphosate	Paraquat
Endothall		

CRM – Certified Reference Material
PT – Proficiency Testing
QR – QuiK Response

All Waters ERA WS PTs open monthly (**M**), quarterly (**Q**), or biannually (**B**) unless otherwise noted. Quarterly months are January, April, July, and October.



MAGNIFY YOUR DIOXIN DETECTION

The analysis of dioxins is particularly demanding due to encountered low-level regulatory exposure limits and complex sample matrices. Waters provides LC-MS/MS and GC-MS/MS systems for the detection and quantification of dioxins and related compounds at ultra-trace levels. Combined with our analytical standards & reagents, proficiency testing (ERA), column and sample preparation products, and data management software, these solutions are designed to:

- Increase accuracy
- Enhance sensitivity
- Accelerate throughput
- Ensure compliance

Employ dependable solutions for POPs and chemical contaminant analysis.