

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.



2015 Water Supply PT Scheme Schedule

	Scheme #	Opens	Closes
Q	WS 222	Jan 5	Feb 19
	WS 223	Feb 9	Mar 26
	WS 224	Mar 2	Apr 16
Q	WS 225	Apr 6	May 21
	WS 226	May 4	Jun 18
	WS 227	Jun 8	Jul 23
Q	WS 228	Jul 6	Aug 20
	WS 229	Aug 3	Sep 17
	WS 230	Sep 8	Oct 23
Q	WS 231	Oct 5	Nov 19
	WS 232	Nov 6	Dec 21
	WS 233	Dec 7	Jan 21, 2016

Schedule subject to change – see ERA's website at www.eraqc.com

2016 Water Supply PT Scheme Schedule

	Scheme #	Opens	Closes
Q	WS 234	Jan 11	Feb 25
	WS 235	Feb 8	Mar 24
	WS 236	Mar 1	Apr 15
Q	WS 237	Apr 4	May 19
	WS 238	May 9	Jun 23
	WS 239	Jun 6	Jul 21
Q	WS 240	Jul 11	Aug 25
	WS 241	Aug 8	Sep 22
	WS 242	Sep 6	Oct 21
Q	WS 243	Oct 7	Nov 21
	WS 244	Nov 1	Dec 16
	WS 245	Dec 5	Jan 19, 2017

Schedule subject to change – see ERA's website at www.eraqc.com

Description	CRM	PT	QR	Page
Carbamates/ Carbamoxyloxime Pesticides	707	846 M	707QR	36
Chloral Hydrate	676	853 *	676QR	35
Chlordane	705	845 M	705QR	36
Chlorinated Acid Herbicides	704	851 M	704QR	37
Color	661	859 Q	661QR	34
Corrosivity	980	900 Q	980QR	34
Cyanide	983	556 M	983QR	34
Dioxin	663	857 Q	663QR	37
EDB/DBCP/TCP	706	847 M	706QR	36
Gasoline Additives	909	905 Q	909QR	35
Hardness	693	555 M	693QR	32
Haloacetic Acids (HAA)	684	852 M	684QR	35
Halomethanes (THMs)	702	842 M	702QR	35
Hexavalent Chromium	658	854 Q	658QR	32
Inorganics	698	591 M	698QR	32
Inorganic Disinfection #1	5272	5270 M	5272QR	33
Inorganic Disinfection #2	5262	5260 M	5262QR	33
Mercury	666	551 M	666QR	32
Metals	697	590 M	697QR	32

CRM – Certified Reference Material

PT – Proficiency Testing

QR – QuiK Response

All ERA WS PTs open monthly (**M**) or quarterly (**Q**) unless otherwise noted.

***** ERA Chloral Hydrate PTs open in January and July.

Quarterly months are January, April, July, and October.

Description	CRM	PT	QR	Page
Nitrite	695	594 M	695QR	33
Organic Carbon	669	557 M	669QR	34
o-Phosphate Nutrients	667	558 M	667QR	33
PCBs as Decachlorobiphenyl	708	839 Q	708QR	37
Perchlorate	910	903 Q	910QR	34
Pesticides	709	850 M	709QR	36
pH	779	552 M	779QR	32
Regulated Volatiles	703	840 M	703QR	35
Residual Chlorine	696	593 M	696QR	34
Semivolatiles #1	690	848 M	690QR	37
Semivolatiles #2 Herbicides	691	849 M	691QR	37
Silica	785	902 Q	785QR	34
Solids Concentrate	5152	5150 M	5152QR	32
Surfactants-MBAS	784	901 Q	784QR	34
Toxaphene	700	844 M	700QR	36
Turbidity	699	592 M	699QR	34
Unregulated Volatiles	683	841 M	683QR	35
Uranium	930	858 Q	930QR	32
UV 254 Absorbance	662	904 Q	662QR	34
Vanadium	660	856 Q	660QR	32

QuiK Response PT

Need PT results fast? Available 52 weeks a year, QuiK Response PTs are on demand PTs that return final results within minutes of submitting your data online. In the US, please call ERA customer service at 800-372-0122 or 303-431-8454 to order. Outside of the US, please contact your authorized ERA sales partner to order.

MINERALS/SOLIDS

Hardness

CRM Cat. #693	PT M Cat. #555	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 M Cat. #591	QR Cat. #698QR
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One 500 mL whole-volume bottle is ready to analyze. The CRM is also certified for Sodium. 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.....	130-1,300 µmhos/cm
Sulfate.....	25-250 mg/L
Total dissolved solids (TDS) at 180 °C.....	100-1,000 mg/L

pH

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

pH.....	5-10 units
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Solids Concentrate

CRM Cat. #5152	PT M Cat. #5150	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.....	100-1,000 mg/L
Total solids (TS) at 105 °C.....	123-1,100 mg/L
Total suspended solids (TSS).....	23-100 mg/L

The Industry Standard



TRACE METALS

Metals

CRM Cat. #697	PT M Cat. #590	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.....	130-1,000 µg/L
Antimony.....	6-50 µg/L
Arsenic.....	5-50 µg/L
Barium.....	500-3,000 µg/L
Beryllium.....	2-20 µg/L
Boron.....	800-2,000 µg/L
Cadmium.....	2-50 µg/L
Chromium.....	10-200 µg/L
Copper.....	50-2,000 µg/L
Iron.....	100-1,800 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.....	50-1,000 µg/L
Zinc.....	200-2,000 µg/L

Mercury

CRM Cat. #666	PT M Cat. #551	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.

Mercury, total.....	0.5-10 µg/L
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Hexavalent Chromium

CRM Cat. #658	PT Q Cat. #854	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 Q Cat. #858	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 Q Cat. #856	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

Inorganic Disinfection #1

CRM Cat. #5272	PT M Cat. #5270	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.....	100-1,000 µg/L

NUTRIENTS

Nitrite

CRM Cat. #695	PT M Cat. #594	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
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Inorganic Disinfection #2

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

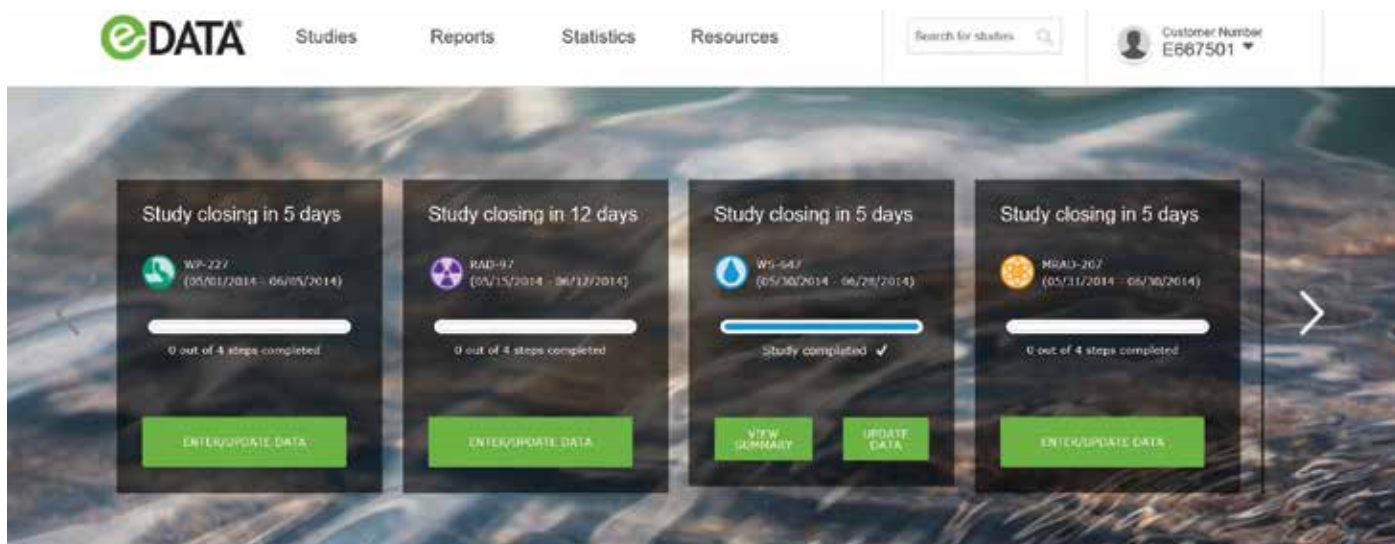
Bromate.....	7-50 µg/L
Bromide.....	50-300 µg/L

o-Phosphate Nutrients

CRM Cat. #667	PT M Cat. #558	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
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MISCELLANEOUS INORGANIC

Residual Chlorine

CRM Cat. #696	PT M Cat. #593	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 M Cat. #556	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.

Total Cyanide	0.1-0.5 mg/L
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Organic Carbon

CRM Cat. #669	PT M Cat. #557	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 Q Cat. #903	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
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Silica

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

Silica as SiO ₂	5-75 mg/L
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Surfactants-MBAS

CRM Cat. #784	PT Q Cat. #901	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
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PHYSICAL PROPERTY

Color

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

Color.....	10-75 PC units
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Corrosivity

CRM Cat. #980	PT Q Cat. #900	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
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Turbidity

CRM Cat. #699	PT M Cat. #592	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
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UV 254 Absorbance

CRM Cat. #662	PT Q Cat. #904	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
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DISINFECTION BY-PRODUCTS

Chloral Hydrate

CRM

Cat. #676

PT*

Cat. #853

QR

Cat. #676QR

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.

* ERA WS Chloral Hydrate PTs open in January and July.

Haloacetic Acids (HAA)

CRM

Cat. #684

PT M

Cat. #852

QR

Cat. #684QR

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

VOLATILE ORGANICS

Gasoline Additives

CRM

Cat. #909

PT Q

Cat. #905

QR

Cat. #909QR

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 M

Cat. #842

QR

Cat. #702QR

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 M

Cat. #840

QR

Cat. #703QR

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 M

Cat. #841

QR

Cat. #683QR

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	Fluorotrchloromethane	1,2,4-Trimethylbenzene
4-Chlorotoluene	Hexachlorobutadiene	1,3,5-Trimethylbenzene
Dibromomethane	Isopropylbenzene	

All ERA WS PTs open monthly (M) or quarterly (Q) unless otherwise noted.

PESTICIDES

Pesticides

CRM	PT M	QR
Cat. #709	Cat. #850	Cat. #709QR

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		

Chlordane

CRM	PT M	QR
Cat. #705	Cat. #845	Cat. #705QR

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	PT M	QR
Cat. #700	Cat. #844	Cat. #700QR

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.

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Carbamate/Carbamoxyl oxime Pesticides

CRM	PT M	QR
Cat. #707	Cat. #846	Cat. #707QR

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		

EDB/DBCP/TCP

CRM	PT M	QR
Cat. #706	Cat. #847	Cat. #706QR

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)

SEMIVOLATILE ORGANICS

Dioxin

CRM

Cat. #663

PT **Q**

Cat. #857

QR

Cat. #663QR

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 **Q**

Cat. #839

QR

Cat. #708QR

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 1242	Aroclor 1254
Aroclor 1221	Aroclor 1248	Aroclor 1260
Aroclor 1232		

Semivolatiles #1

CRM

Cat. #690

PT **M**

Cat. #848

QR

Cat. #690QR

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 35) for this compound in the EPA/NELAC range.

HERBICIDES

Chlorinated Acid Herbicides

CRM

Cat. #704

PT **M**

Cat. #851

QR

Cat. #704QR

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
Bentazone	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 **M**

Cat. #849

QR

Cat. #691QR

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		



CUSTOMERS ARE RESPONDING ABOUT FASTER PT RESULTS...

“Quick feedback is always good. Confirms a job well done for lab staff and allows for quick troubleshooting if there was a problem identified.”

- Lab Manager, Tennessee

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