

EFFLUENT

For International purchase only: Synthetic wastewater matrices with appropriate concentrations of analytes for testing water pollution or wastewater. Standards are designed to meet the requirements of the European Union Water Framework Directive. Concentrations are not compliant with US TNI Fields of Proficiency Testing table requirements for accreditation.



2015 Effluent PT Scheme Schedule

Scheme #	Opens	Closes
EF 15	Mar 4	Apr 3
EF 16	Sep 9	Oct 9

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

2016 Effluent PT Scheme Schedule

Scheme #	Opens	Closes
EF 17	Mar 9	Apr 8
EF 18	Sep 7	Oct 7

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

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CRM – Certified Reference Material

PT – Proficiency Testing

INORGANICS

Common Inorganics

CRM	PT
Cat. #1249	Cat. #1209

A 1 liter poly bottle whole-volume sample is ready to be analyzed.

Alkalinity	20-120 mg/L
Calcium	2-50 mg/L
Chloride	25-500 mg/L
Conductivity	80-1,000 µmhos/cm
Fluoride	0.25-5 mg/L
Magnesium	1-25 mg/L
pH	5-10 units
Potassium	2-50 mg/L
Sodium	5-100 mg/L
Sulfate	2-50 mg/L
Total Dissolved Solids	60-750 mg/L
Total Hardness	9-250 mg/L

Complex Nutrients in Hard Water

CRM	PT
Cat. #1241	Cat. #1201

One 15 mL screw-cap vial spiking concentrate makes up to 2 liters of sample.

Total Kjeldahl Nitrogen	1-15 mg/L
Total Nitrogen	1-20 mg/L
Total Phosphorus	0.5-5 mg/L

Solids Concentrate

CRM	PT
Cat. #1243	Cat. #1203

One 24 mL screw-cap vial concentrate makes 1 liter of sample.

Total dissolved solids	10-250 mg/L
Total suspended solids (TSS)	5-50 mg/L

Simple Nutrients

CRM	PT
Cat. #1240	Cat. #1200

Two 15 mL screw-cap vials spiking concentrate makes up to 2 liters of sample.

Ammonia (N)	1-20 mg/L
Nitrate (NO ₃)	0.5-10 mg/L
Nitrite (NO ₂)	0.5-5 mg/L
Total oxidised nitrogen	1-15 mg/L
Soluble reactive phosphorus (P)	0.5-5 mg/L

Demand

CRM	PT
Cat. #1242	Cat. #1202

One 15 mL screw-cap vial spiking concentrate makes up to 2 liters of sample.

5-day BOD	5-75 mg/L
COD	10-150 mg/L
DOC	2-40 mg/L
TOC	2-40 mg/L

Total Phenolics (4-AAP)

CRM	PT
Cat. #1250	Cat. #1210

One 2 mL flame-sealed ampule spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample.

Total phenolics by 4-AAP	0.06-5 mg/L
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METALS

Metals

CRM Cat. #1244	PT Cat. #1204
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One 15 mL screw-cap vial spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample.

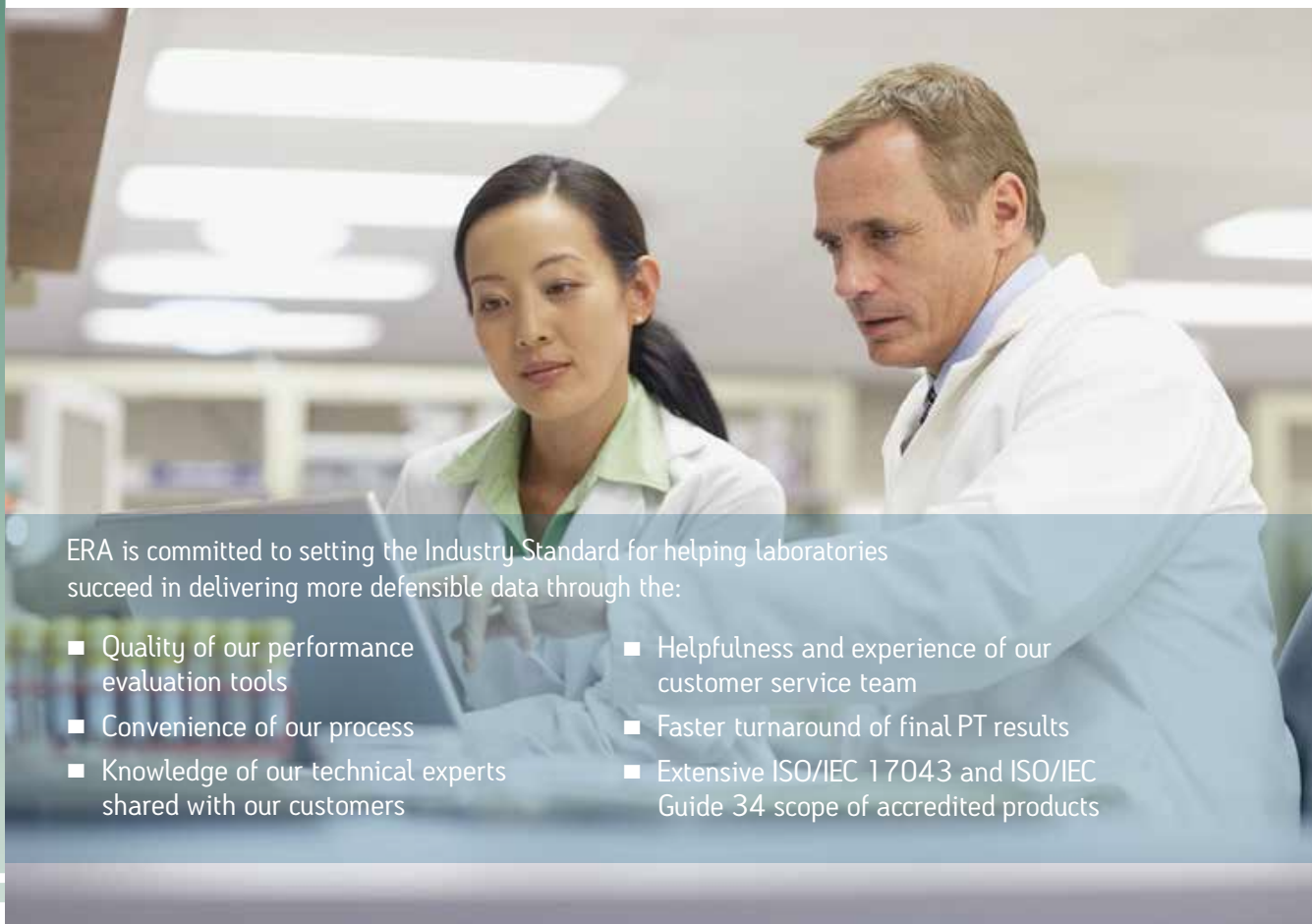
Aluminum.....	200-4,000 µg/L
Antimony.....	95-900 µg/L
Arsenic.....	70-900 µg/L
Barium.....	100-2,500 µg/L
Beryllium.....	8-900 µg/L
Boron.....	800-2,000 µg/L
Cadmium.....	8-750 µg/L
Chromium, total.....	17-1,000 µg/L
Cobalt.....	28-1,000 µg/L
Copper.....	40-900 µg/L
Iron.....	200-4,000 µg/L
Lead.....	70-3,000 µg/L
Manganese.....	70-4,000 µg/L
Molybdenum.....	60-600 µg/L
Nickel.....	80-3,000 µg/L
Selenium.....	90-2,000 µg/L
Silver.....	26-600 µg/L
Strontium.....	30-300 µg/L
Thallium.....	60-900 µg/L
Vanadium.....	55-2,000 µg/L
Zinc.....	100-2,000 µg/L

Hexavalent Chromium

CRM Cat. #1248	PT Cat. #1208
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One 15 mL screw-cap vial spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample.

Hexavalent chromium.....	10-200 µg/L
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ORGANICS

Volatiles

CRM Cat. #1251	PT Cat. #1211
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One 2 mL flame-sealed ampule spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample to be analyzed for the compounds listed below at 5-300 µg/L.

Acetone	cis-1,2-Dichloroethene
Acetonitrile	trans-1,2-Dichloroethene
Acrolein	1,2-Dichloropropane
Acrylonitrile	cis-1,3-Dichloropropene
Benzene	trans-1,3-Dichloropropene
Bromodichloromethane	Ethylbenzene
Bromoform	Hexachlorobutadiene
Bromomethane	2-Hexanone
2-Butanone (MEK)	Methylene chloride
Carbon disulfide	4-Methyl-2-pentanone (MIBK)
Carbon tetrachloride	Methyl tert-butyl ether (MTBE)
Chlorobenzene	Naphthalene
Chlorodibromomethane	Styrene
Chloroethane	1,1,1,2-Tetrachloroethane
2-Chloroethyl vinyl ether	1,1,2,2-Tetrachloroethane
Chloroform	Tetrachloroethene
Chloromethane	Toluene
1,2-Dibromo-3-chloropropane (DBCP)	1,2,4-Trichlorobenzene
1,2-Dibromoethane (EDB)	1,1,1-Trichloroethane
Dibromomethane	1,1,2-Trichloroethane
1,2-Dichlorobenzene	Trichloroethene
1,3-Dichlorobenzene	Trichlorofluoromethane (Freon 11)
1,4-Dichlorobenzene	1,2,3-Trichloropropane
Dichlorodifluoromethane	Vinyl acetate
1,1-Dichloroethane	Vinyl chloride
1,2-Dichloroethane	Xylenes, total
1,1-Dichloroethene	

PAHs

CRM Cat. #1254	PT Cat. #1214
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One 2 mL flame-sealed ampule spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample to be analyzed for the compounds listed below at 10-250 ng/L.

Acenaphthene	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene
Acenaphthylene	Benzo(a)pyrene	Naphthalene
Anthracene	Chrysene	Phenanthrene
Benzo(a)anthracene	Dibenz(a,h)anthracene	Pyrene
Benzo(b)fluoranthene	Fluoranthene	
Benzo(k)fluoranthene	Fluorene	

PCB Congeners

CRM Cat. #1255	PT Cat. #1215
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One 2 mL flame-sealed ampule spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample to be analyzed for the compounds listed below at 100-1,500 ng/L.

PCB 28	PCB 118	PCB 180
PCB 52	PCB 138	
PCB 101	PCB 153	

Organophosphorus Pesticides

CRM Cat. #1256	PT Cat. #1216
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One 2 mL flame-sealed ampule spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample to be analyzed for the compounds listed below at 100-1,500 ng/L.

Azinphos-ethyl	Diazinon	Mevinphos
Azinphos-methyl	Dichlorvos	Parathion-ethyl
Chlorfenvinphos	Fenitrothion	Parathion-methyl
Chlorpyrifos	Fenthion	
Cypermethrin	Malathion	

Organochlorine Pesticides

CRM Cat. #1253	PT Cat. #1213
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One 2 mL flame-sealed ampule spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample to be analyzed for the compounds listed below at 100-2,000 ng/L.

Aldrin	4,4'-DDD	Endrin
alpha-BHC	4,4'-DDE	Endrin aldehyde
beta-BHC	4,4'-DDT	Endrin ketone
delta-BHC	Dieldrin	Heptachlor
gamma-BHC (Lindane)	Endosulfan I	Heptachlor epoxide (beta)
alpha-Chlordane	Endosulfan II	Methoxychlor
gamma-Chlordane	Endosulfan sulfate	Pentachlorobenzene

Triazines, Urons and Acid Herbicides

CRM Cat. #1257	PT Cat. #1217
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One 2 mL flame-sealed ampule spiking concentrate and one 24 mL screw-cap vial matrix concentrate makes up to 2 liters of sample to be analyzed for the compounds listed below at 100-1,200 ng/L.

2,4-D	Diuron	MCPB
AMPA	Glyphosate	Mecoprop
Atrazine	Isoproturon	Propazine
Bentazone	Linuron	Simazine
Chlortoluron	MCPA	

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