



IAS — ENVIRO CHEM
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EnviroChem

INDUSTRIAL - WATER - WASTE - SOIL - GEOCHEMICAL - FIRE ASSAY - QA/QC

Sample Handling Requirements

Inorganic/Physical

Parameter	Method	Sample Vol. Required	Container Type	Preservative	Holding Time
Acidity	EPA 305.1	100ml	250ml P	Cool 4 C	14 Days
Alkalinity	EPA 310.1	100ml	250ml P	Cool 4 C	14 Days
Ammonia	EPA 350.1/2	100ml	500ml P	Cool 4 C H2SO4 to pH <2	28 Days
BOD	EPA 405.1	500ml	500ml P	Cool 4 C	48 Hours
Bromide	EPA 300.0	100ml	500ml P	None	28 Days
COD	EPA 410.4	50ml	125ml P	Cool 4 C H2SO4 to pH <2	28 Days
Chloride	EPA 300.0	50ml	125ml P	None	28 Days
Chlorine (Total / Residual)	EPA 330.5	200ml	500ml P	None	Immediately
Color	EPA 110.1	50ml	125ml P	Cool 4 C	48 Hours
Cyanide (Total & Amenable)	EPA 335.2	500ml 10g	1L P BR 500ml BR	NaOH to pH 12/0.6g Ascorbic Acid	14 Days 14 Days
Fluoride	EPA 300.0	300ml	500ml P	None	28 Days
Hardness	EPA 130.1	100ml	250ml P	HNO or H2SO4 to pH <2	6 Months
Hydrogen ion (pH)	EPA 150.1	125ml	250ml P	None	Immediately
Kjeldahl & Organic Nitrogen	EPA 351.2	500ml	500ml P	Cool 4 C H2SO4 to pH <2	28 Days
Mercury	EPA 245.1	100ml	250ml P	HNO3 to pH <2	28 Days
	SW 7470	10g	8oz.CWM		28 Days
Metals (not Chromium VI/Hg)	200 Series/1620	500ml	500ml P		6 Months
	SM3111/3120B	10g	16 oz. P	HNO3 to pH <2	6 Months
	SW7000/6010				6 Months
Nitrate	EPA 300.0	100ml	250ml P	Cool 4 C	48 Hours
Nitrate-Nitrite	EPA 300.0	100ml	250ml P	Cool 4 C	28 Days
Nitrite	EPA 300.0	100ml	250ml P	Cool 4 C	48 Hours
Odor	EPA 140.1	1L or 10g	1L CWM	None	Immediately
Oil & grease	EPA 413.1/.2	1000ml	1000ml AG	Cool 4 C H2SO4 to pH <2	28 Days
Orthophosphate:P	EPA 365.3/365.1	100ml	250ml P	Filter & Cool 4 C	48 Hours
	300.0	100ml	250ml P	Filter & Cool 4 C	48 Hours
Oxygen Dissolved (Probe)	EPA 360.1	300ml	Glass	None	Immediately
Phosphorus (Elemental)	EPA 365.3	50ml	125ml P	Cool 4 C	48 Hours
Phosphorus (Total)	EPA 365.1/.2/.4	100ml	250ml P	Cool 4 C H2SO4 to pH <2	28 Days
Radium (Total)	SW 9515/9320	1L	2L P	HNO3 to pH <2	6 Months
Residue (Filterable)	EPA 160.1	200ml	500ml P/G	Cool 4 C	7 Days
Residue (Non-Filterable)	EPA 160.2	200ml	500ml P/G	Cool 4 C	7 Days
Residue (Settleable)	EPA 160.5	1L	1L P/G	Cool 4 C	48 Hours
Residue (Total)	EPA 160.3	100ml	250ml P/G	Cool 4 C	7 Days
Residue (Volatile)	EPA 160.4	100ml	500ml P/G	Cool 4 C	7 Days
Radiological, Gross Alpha & Beta, Rad 226/228	EPA 900 SERIES	1L	2L P	HNO3 to pH <2	6 Months
	EPA 900 SERIES	1L	2L P	HNO3 to pH <2	6 Months
Silica	EPA 200.7		125ml P	Cool 4 C	28 Days
Specific Conductance	EPA 120.1	100ml	250ml P	Cool 4 C	28 Days
Sulfate	EPA 375.3/300.0	100ml	250ml P	Cool 4 C	28 Days
Sulfide	SW 9030	100g	1L P BR	ZnAc plus NaOH to pH 9	7 Days
Sulfite	EPA 377.1	500ml	P	None	Immediately
Surfactants (MBAS)	EPA 425.1	250ml	P	Cool 4 C	48 Hours
TCLP Extraction	SW1311	200g	Glass w/T	None	7 Days till ex. 40 Days after ex.
Temperature	EPA 170.1	1L	P	None	Immediately
Total Organic Carbon	EPA 415.2	25ml		Cool 4 C HCl/H2SO4 to pH <2	28 Days
Total Organic Carbon	SW 9060	10g	P		28 Days
Turbidity	EPA 180.1	100ml	P	Cool 4 C	48 Hours

Organic

Acrolein & Acrylonitrile	EPA 603 SW 8030	40mls/5g		0.008% Na ₂ S ₂ O ₃ to pH4.5	14 Days
Chlorinated Herbicides	EPA 515.1	1L/50g	Glass w/T	Cool 4 C	7 Days till ex. 28 Days after ex.
Chlorinated Hydrocarbons	EPA 612 SW8120	1L/50g	Glass w/T	Cool 4 C	14 Days till ex. 28 Days after ex.
Dioxins and Furans	EPA 613/1613	2L	Glass w/T	Cool 4 C	14 Days till ex. 28 Days after ex.
EDB/DBCP	EPA 504.1	40ml	Glass w/T	Cool 4 C	7 Days till ex. 28 Days after ex.
Nitroaromatics/Isophorone	EPA 609 SW 8090	1L 10g	Glass w/T	Cool 4 C	7 Days till ex. 28 Days after ex.
Nonhalogenated Volatile Organics	EPA 502.2 SW 8015	40ml 5g	Glass w/T	Cool 4 C, 4 drops HCl	14 Days
Pesticides, Chlorinated & PCB's	EPA 608/505/508 /508A SW 8080	1L 50g	Glass w/T	Cool 4 C pH 5-9	7 Days till ex. 28 Days after ex.
Phenolics, Total Recoverable	EPA 420.1	500ml	Glass	Cool 4 C H ₂ SO ₄ to pH <2	28 Days
Phenols	EPA 604 SW 8040	1L 10g	Glass	Cool 4 C	7 Days till ex. 28 Days after ex.
Phthalate Esters	EPA 606/506 SW 8060	1L 10g	Glass w/T	Cool 4 C	7 Days till ex. 28 Days after ex.
Polynuclear Aromatic Hydrocarbons	EPA 610/611 SW8100	1L 10g	Glass w/T	Cool 4 C	7 Days till ex. 28 Days after ex.
Purgeable Aromatic Hydrocarbons	EPA 602/503.1 SW 8020	40ml 5g	Glass w/T	HCl to pH <2	14 Days
Purgeable Halocarbons	EPA 601/502.2/.1 SW 8010	40ml 5g	Glass w/T	Cool 4 C	14 Days
THM	EPA 501.1	1L 10g	Glass w/T	Cool 4 C H ₂ SO ₄ to pH <2	14 Days
TPH/Modified	8015.Mod	1L 10g	Glass w/T	Cool 4 C	7 Days till ex. 14 Days after ex.
Total Petroleum Hydrocarbon	EPA 418.1	1L	Glass w/T	Cool 4 C H ₂ SO ₄ to pH <2	7 Days till ex. 14 Days after ex.

Microbiology

Coliform, Total	SM 9223B	100ml	150ml sterilized	Cool 4 C 0.008% Na ₂ S ₂ O ₃	30 Hours
Coliform, Fecal	SM 9223B	100ml	150ml sterilized	Cool 4 C 0.008% Na ₂ S ₂ O ₃	30 Hours
Coliform, e Coli in Water	SM 9223B	100ml	150ml sterilized	Cool 4 C 0.008% Na ₂ S ₂ O ₃	30 Hours
Coliform, e Coli in Waste Water	SM 9223B	100ml	150ml sterilized	Cool 4 C 0.008% Na ₂ S ₂ O ₃	6 Hours