



Analyte - Aqueous	Method (s)	Holding Time	Minimum Volume	Containers	Preservation**
TPH (g/ss/pt/ms/av)-MTBE-BTEX	E8015 / 8021 / 8260	7d if unpresv, 14d	40mL	2 V	0-6°C, HCL, ZHS
TPH (d/jf/k/mo) / Large Volume Ext.	E8015	7d	40mL / 1aL	2 aV / 1 L aG	0-6°C
TRPH / O&G-HEM	E418 / 1664	28d if presv/4h if NP	40mL / 1aL	2 V / 1 L aG	0-6°C, HCL
EDB, DBCP, 123TCP	E8260 / 524.3 / SRL524	14d	40mL	2 aV	0-6°C, AA + MA, ZHS
HVOCs-Aromatics	E8260	14d	40mL	2 V	0-6°C, HCL, ZHS
VOCs (DW)	E524.2	14d	40mL	2 aV	0-6°C, AA + HCL, ZHS
	E524.3	14d	40mL	2 aV	0-6°C, AA + MA, ZHS
VOCs except AAC	E8260 / 624.1	14d	40mL	2 V	0-6°C, HCL, ZHS
Acrolein, Acrylonitrile, 2-CEVE	E8260 / 624.1	3d	40mL	2 V	0-6°C, ZHS
SVOCs (DW)	E525.2 / 525.3	14d	1 L	1 L G	0-6°C, Na2SO3
SVOCs	E8270 / 625.1	7d	1 L	1 L G	0-6°C
PNAs/PAHs	E8270 / 8310 / 610	7d	500mL	1 L G	0-6°C, HCL
Dioxins & Dibenzofurans	E1613 / 1668 / 8290	365d	500mL	2 L aG	0-6°C, if pH>9 adjust 7-9
Carbamates	E531.1	28d	40mL	2 aV	pH~3.8, <6°C, MAI P
	E8318	7d	40mL	2 aV	pH<4-5, 6°C, CH3COOH
Chlorinated Herbicides	E515.3	14d	40mL	2 aV	0-6°C, Na2S2O3
	E8151	7d	1 L	1 L aG	0-6°C
Chlorinated Pesticides / PCBS	505	14d	40mL	2 V	0-6°C, Na2S2O3
	E608.3	7d	1 L	1 L aG, NM	0-6°C
	E8081 / 8082	7d	40mL	2 aV	0-6°C
Diquat & Paraquat	E549.2	7d	500mL	500mL aHDPE	0-6°C, Na2S2O3 + H2SO4
Endothall	E548.1	7d	500mL	500mL aG	0-6°C, Na2S2O3
Glyphosate	E547	14d	40mL	2 aV	0-6°C, Na2S2O3
Organo-Nitrogen/Phosphorus Pesticides	E8141 / 507	7d	500mL	1 L aG	0-6°C, Na2S2O3
Aldehydes / Carbonyls / Formaldehyde	E8315	3d	40mL	1 L aG	0-6°C
Haloacetic Acids (HAAs)	E552.2	14d	40mL	2 V	0-6°C, NH4CL
Methane, Ethane, Ethene	RSK 175	14d	40mL	2 aV	0-6°C, H2SO4
Nitroaromatics / Explosives	E8330	7d	1 L	1 L aG	0-6°C
ICP/MS Metals incl. Hg & Hardness	E200.8 / 6020 / SM2340B	180d, Hg 28d	200mL	250mL HDPE	HNO3, pH<2
Mercury, trace level	E1631E	90d if presv/2d if NP	100mL	500mL G, Pre-Cl	add HCl < 2d, dbl.-bagged
Hexachrome	E218.6	28d if presv	20mL	125mL HDPE	0-6°C, NH42SO4 + NH4OH
Organic Lead	8270 - MAI	14d	200mL	2 aV	0-6°C
Organic Tin	MAI	7d	200mL	1 L aG	0-6°C, ZHS
Anions (nitrite, nitrate, phosphate)	E300.1	2d	20mL	125mL HDPE	0-6°C, phosphate filter <12h
Anions (bromide, chloride, fluoride, sulfate)	E300.1	28d	20mL	125mL HDPE	0-6°C
Anions DBP (bromate, chlorate, chlorite)	E300.1SPE	28d	50mL	250mL aG	purge if ClO2g, 0-6°C, EDA
Perchlorate	E314.0	28d	50mL	125mL HDPE	0-6°C
Acidity / Alkalinity	SM2310B / SM2320B	14d	20mL	250mL HDPE	0-6°C
Ammonia as N	E350.1	28d	100mL	250mL aG	0-6°C, H2SO4
BOD/cBOD	SM5210 B	2d	500mL	500m L HDPE	0-6°C, ZHS
Chlorine, residual / forms	SM4500Cl DE	field / ASAP	200mL	1 L aG	0-6°C
COD	E410.4	28d	20mL	2 aV	0-6°C, H2SO4
Color	SM2120B	2d	50mL	250mL HDPE	0-6°C
Conductivity	E120.1 / SM2510	28d	20mL	250mL HDPE	0-6°C
Cyanide, Amenable or Total	Kelada / E335.4 / 9012 / SM4500CN	14d	100mL	250mL aHDPE	0-6°C, NaOH
Dissolved Oxygen	E360.1	field / ASAP	250mL	250mL HDPE	ZHS
Ferrous iron	SM3500 Fe B4c	field / 2d	40mL	2 aV	Concentrated (1.6M) HCl, ZHS
MBAS (Anionic Surfactants)	SM5540C / E425.1	NS / 2d	100mL	1 L HDPE	0-6°C
Nitrogen, TKN or Organic	E351.2 / SM4500N	28d	100mL	250mL aG	0-6°C, H2SO4
Nitrogen/ Carbon Dioxide / Inorganic Carbon	E415.3	28d	40mL	2 V	0-6°C, HCL
Odor	E140.1 / SM2150	1d / NS	200mL	500mL G	0-4 °C, ZHS
ORP (Oxidation-Reduction Potential)	SM2580	NS / ASAP	50mL	125mL HDPE	0-6°C, ZHS
pH	SM4500H+B, E9045	ASAP	20mL	125mL HDPE	0-6°C
Phenolics, Total	E420.1 / 420.4	28d	50mL	250mL aG	0-6°C, H2SO4
Phosphorous, Ortho / Dissolved	E365.3	28d	50mL	500mL HDPE	0-6°C, add H2SO4 < 2d
Phosphorous, Total / Organic	E365.1 / 365.5	28d	50mL	500mL aG	0-6°C, H2SO4
RCI - Reactivity, Corrosivity, Ignitability	SW846 Chpt. 7	NS	100mL	250mL HDPE	0-6°C, Dark, ZHS
Settleable Solids	E160.5 / SM2540F	2d	1 L	1 L HDPE	0-6°C
Sulfide	SM4500S2D	7d	100mL	250mL HDPE	0-6°C, NaOH+ZnAc
TDS	SM2540C	7d	100mL	500mL HDPE	0-6°C
TOC	E415.3	28d	40mL	2 V	pH<2, 6°C, HCL
TSS	SM2540D	7d	500mL	1 L HDPE	0-6°C
Turbidity	SM2130B	2d	20mL	125mL HDPE	0-6°C
UV254	SM5910B	2d	40mL	2 V	0-6°C, ZHS

Abbreviations: V = 40ml VOA vial; L = Liter; P = plastic; a/G = amber/glass; ZHS=zero head space; HS=head space; NS=not specified; AA=ascorbic acid, MA=malic acid

** All treated water samples that are to be tested for organics, bacteria & cyanide MUST be dechlorinated at time of collection prior to addition of preservative. Regulations do not address dechlorination for O&G, wet chemistry (except cyanide), anions & metals. Aquatic Toxicity effluent samples are not to be dechlorinated.



Table with 6 columns: Analyte - Soil and Solid, Method (s), Holding Time, Minimum Volume, Containers, Preservation. Rows include various chemical and biological analytes like TPH, Oil & Grease, VOCs, SVOCs, PNA/PAHs, etc.

Abbreviations: V = 40ml VOA vial; L = Liter; P = plastic; a/G = amber/glass; ZHS=zero head space; HS=head space; NS=not specified; AA=ascorbic acid, MA=malic acid

* 2 minimum or 4 nominal 5g Encores or 40ml Voas should be collected for Encore style sampling. Encores & empty VOAs have a 2d HT. Preserved VOAs (1 aq. Acid, 1 solvent) have 14d HT. Do not acidify for AAC analysis.