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Sample Presevation and Holding Time

Analysis	Matrix*	Method	Holding Time	Container	Preservative	Bottle
Acidity	Water	305.1	14 days	P, G	4°C	250 ml
Alkalinity	Water	310.1/ 310.2	14 days	P, G	4°C	250 ml
Ammonia	Water	350.1	28 days	P, G	H2SO4(pH<2),4°C	500 ml
Bicarbonate	Water	Call LRS	14 days	P, G	4°C	500mL
BNA	Water	3510	7 days (Ext)	G	4°C	2, 1 liter ambers
BOD	Water	E405.1	48 hours	P, G	4°C, check CL	1 liter
BTEX	Water	SW8260/5030	14 days	G	HCL (pH<2), 4°C check for CL	2 HCL Vials
BTEX	Soil	SW8260/5035	48 hours, 14 days after pres.	Pre-weighed vials or Encore*	Sodium Bisulfate, methanol, 4°C	*call LRS
TPH-DRO	Water	SW8015B	14 days (Ext)	G	4°C	2, 1 liter ambers
TPH-DRO	Soil	SW8015B	14 days (Ext)	G	4°C	4oz soil jar
TPH-GRO	Water	SW8015B	14 days	G	HCL (pH<2), 4°C check for CL	2 HCL Vials
TPH-GRO	Soil	SW8015B	48 hours, 14 days after pres.	Pre-weighed vials or Encore*	Sodium Bisulfate, methanol, 4°C	
Carbonate	Water	Call LRS	14 days	P, G	4°C	*call LRS
Chloride, Total	Water	300/ 9056	28 days	P, G	None	500 mL
Chloride, Total	Soil	9056	28 days	P, G	None	4oz soil jar
Chloride, Tot. Residual	Water	330.5	Immediately	P, G	None	250 ml
Chlorophyll a	Water	SM 10200	48 hours (Filtration)	G	4°C, amber bottle	1 liter amber
COD	Water	E410.4	28 days	P, G	H2SO4(pH<2),4°C	250 ml
Coliform, Fecal (sw/ww)	Water	SM9222D	8 hours	P, sterilized	4°C, Na Thiosulfate	100 ml
Coliform, Total (sw/ww)	Water	SM 9222B	8 hours	P, sterilized	4°C, Na Thiosulfate	100 ml
Color	Water	110.2	48 hours	P, G	4°C	250 ml
Conductivity	Water	120.1	28 days	P, G	4°C	250 ml
Corrosivity	Waste	SW9045C	14 days	G	None	4oz glass
CTAS	Water	Call LRS	48 hours	P, G	4°C	*call LRS
Cyanide, Amenable	Water	335.1/ 9012/ 9014	14 days	P, G	NaOH(pH>12),4°C	500 ml
Cyanide, Amenable	Soil	9012/ 9014	14 days	P, G	4°C	4oz soil jar
Cyanide, Reactive	Waste	SW 7.3.3.2	7 days	P, G	4°C, amber	500mL amber
Cyanide, Total	Water	335.2/ 335.4	14 days	P, G	NaOH(pH>12),4°C	500 ml
Cyanide, Total	Soil	9012/ 9014	14 days	P, G	NaOH(pH>12),4°C	4oz soil jar
Flash Point/Ignitability	Liquid	SW1010	14 days	P, G	None	250 ml
Flash Point/Ignitability	Solid	SW1010	14 days	G	None	4oz soil jar
Fluoride	Water	300/ 9056	28 days	P, G	None	500 ml
Hardness	Water	SM 2340 B	6 months	P, G	HNO3/H2SO4 (pH<2)	500 ml
Herbicides	Water	SW8151	7 days (Ext)	G	4°C	2, 1 liter ambers
Herbicides	Soil	SW8151	14 days (Ext)	G	4°C	4oz soil jar
Hexavalent Chromium	Water	SW7196	24 hours	P, G	4°C	500 ml

Hexavalent Chromium	Soil	SW7196	30 Days (Ext)	P, G	4°C	4oz soil jar
Lead	Air	N7300	6 months	**	None	Cassette
Lead	Wipe	NIOSH 7082M	6 months	***	None	Wipe
Lead	Paint chips	N7082	6 months	N/A	None	Glass/plastic
MBAS	Water	425.1	48 hours	P, G	4°C	2, l liter ambers
Mercury	Liquid	SW7470	28 days	P, G	HNO3(pH<2)	250 ml
Mercury	Soil	SW7471	28 days	P, G	4°C	4oz soil jar
Mercury	Drinking	245.1	28 days	P, G	HNO3(pH<2)	250 ml
Metals	Water	6010B/ 6020/ 200.7/ 200.8	6 months	P, G	HNO3(pH<2)	250 ml
Metals	Soil	6010B/ 6020/ 200.7/ 200.8	6 months	P, G	None	4oz soil jar
Nitrate	Water	300	48 hours	P, G	4°C	500 ml
Nitrate	Soil	353.2	28 days	P, G	4°C	4oz soil jar
Nitrate-Nitrate	Water	353.2	28 days	P, G	H2SO4(pH<2),4°C	250 ml
Nitrate-Nitrate	Soil	353.2	28 days	P, G	4°C	4oz soil jar
Nitrite	Water	300	48 hours	P, G	4°C	500 ml
Nitrite	Soil	353.2	28 days	P, G	4°C	4oz soil jar
Oil and Grease	Water	E1664	28 days	G, wide	H2SO4(pH<2),4°C	2, l liter ambers
Oil and Grease	Soil	SW9071B	28 days	G	4°C	4oz soil jar
PAH	Water	SW8270C	7 days (Ext)	G	4°C	2, l liter ambers
PAH	Soil	SW8270C	14 days (Ext)	G	4°C	4oz soil jar
PCB	Water	SW8082	7 days (Ext)	G	4°C	2, l liter ambers
PCB	Soil	SW8082	14 days (Ext)	G	4°C	4oz soil jar
Pesticides, Chlorinated	Water	SW8081	7 days (Ext)	G	4°C	2, l liter ambers
Pesticides, Chlorinated	Soil	SW8081	14 days (Ext)	G	4°C	4oz soil jar
Pesticides, Special	Water	8270	7 days (Ext)	G	4°C	2, l liter ambers
Pesticides, Special	Soil	8270	14 days (Ext)	G	4°C	4oz soil jar
pH	Water	E150.1	Immediately	P, G	None	250 ml
pH	Soil	SW9045C	28 days	P, G	None	4oz soil jar
Phenolics	Water	E420.1	28 days	G	H2SO4(pH<2),4°C	2, l liter ambers
Phosphorus, Ortho	Water	E365.1	48 hours	P, G	4°C	250 ml
Phosphorus, Total	Water	E365.1	28 days	P, G	H2SO4(pH<2),4°C	250 ml
Phosphorus, Total	Soil	E365.1	28 days	P, G	4°C	4oz soil jar
Semi-Volatiles	Water	625/ SW8270C	7 days (Ext)	G	4°C	2, l liter ambers
EDB,DCBP	Water	SW8011	14 days (Ext)	40 ml VOA	4°C	2, 40ml Vials, unpreserved
Semi-Volatiles	Soil	SW8270C	14 days (Ext)	G	4°C	4oz soil jar
Solids, Settleable	Water	E160.5	48 hours	P	4°C	1 liter
Solids, Total	Water	160.3	7 days	P	4°C	500 ml
Solids, Total Dissolved	Water	E160.1	7 days	P	4°C	500 ml
Solids, Total Suspended	Water	E160.2	7 days	P	4°C	500 ml
Sulfate	Water	300	28 days	P, G	4°C	500 ml
Sulfide	Water	376.1/ 9034	7 days	P, G	2N Zn Acetate, NaOH(pH>12), 4°C	500 ml
Sulfide	Soil	9034	28 days	P, G	4°C	4oz soil jar
Sulfide, Reactive	Waste	7.3.4.2	7 days	P (opaque), G (amber)	4°C	250 ml
Sulfite	Water	377.1	Immediately	P, G	4°C	500 ml
TCLP Extraction	Liquid/ Solid	1311	7 days	G	4°C	*call LRS
Temperature	Water	170.1	Immediately	P, G	None	250 ml
TKN	Water	351.2	28 days	P, G	H2SO4(pH<2),4°C	500 ml
TKN	Soil	351.2	28 days	P, G	4°C	4oz soil jar

Total Organic Carbon	Soil	9060	28 days	P, G	4°C	4oz soil jar
Total Organic Carbon	Water	9060/ 415.1	28 days	P, G	H2SO4(pH<2),4°C	250 ml
TOX	Water	9020B	7 days	P, G	H2SO4(pH<2),4°C	
TPH	Water	1664	14 days	G	H2SO4(pH<2),4°C	2, 1 liter ambers
TPH	Soil	9071	14 days	G	4°C	4oz soil jar
Turbidity	Water	180.1	48 hours	P, G	4°C	250 ml
Volatile Solids	Water/Soil	160.4	7 days	P, G	4°C	500 ml
Volatile Organics	Water	624/ 8260	14 days	G	HCL (pH<2), 4°C	2 HCL Vials
Volatile Organics	Soil	8260	48 hours, 14 days after pres.	Pre-weighed vials or Encore*	Sodium Bisulfate, methanol, 4°C	*call LRS
TCLP ZHE Extraction	Liquid/Soil	1311	14 days	G	None	*call LRS

* Encore Samplers/Terra Core samplers are approved by EPA and allow Volatile soil organics to transported to the laboratory without preservative, Encore Samplers will not be allowed by the Florida DEP effective April 2002. If the enore sampler is not used, the soil samples must be weighed in the field and preserved with sodium bisulfate or the samples must be weighed in the field and preserved in Methanol (5 ml). This will raise the detection limits considerably. See EPA SW-846 method 5035 for further information.

** Lead in air is usually sampled with a cartridge device that attaches to an air pump which samples an area for a certain measured amount of time. There are several types of cartridges approved by NIOSH, but all are self-contained and require no special treatment.

*** Lead wipes are usually a 1 to 2 inch square piece of material that is free of lead at the time of sampling. A specfied area, usually 1 sq foot, is "wiped" with this material. The wipe is placed in some type of non-contaminating (non-metal) container to ship to laboratory.

P-Plastic Container

G-Glass Container

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Acidity	Water	305.1	14 days	P, G	4℃	250 ml
Alkalinity	Water	310.1/ 310.2	14 days	P, G	4℃	250 ml
Ammonia	Water	350.1	28 days	P, G	H2SO4(pH<2),4℃	500 ml
Bicarbonate	Water	Call LRS	14 days	P, G	4℃	500mL
BNA	Water	3510	7 days (Ext)	G	4℃	2, 1 liter ambers
BOD	Water	E405.1	48 hours	P, G	4℃, check CL	1 liter
BTEX	Water	SW8260/5030	14 days	G	HCL (pH<2), 4℃ check f or CL	2 HCL Vials
BTEX	Soil	SW8260/5035	48 hours, 14 days after pres.	Pre-weighed vials or Encore*	Sodium Bisulfate, methanol, 4℃	*call LRS
TPH-DRO	Water	SW8015B	14 days (Ext)	G	4℃	2, 1 liter ambe rs
TPH-DRO	Soil	SW8015B	14 days (Ext)	G	4℃	4oz soil jar
TPH-GRO	Water	SW8015B	14 days	G	HCL (pH<2), 4℃ check fo r CL	2 HCL Vials
TPH-GRO	Soil	SW8015B	48 hours, 14 days after pres.	Pre-weighed vials or Encore*	Sodium Bisulfate, methanol, 4℃	
Carbonate	Water	Call LRS	14 days	P, G	4℃	*call LRS
Chloride, Total	Water	300/ 9056	28 days	P, G	None	500 mL
Chloride, Total	Soil	9056	28 days	P, G	None	4oz soil jar
Chloride, Tot. Residual	Water	330.5	Immediately	P, G	None	250 ml
Chlorophyll a	Water	SM 10200	48 hours (Filtration)	G	4°C, amber bottle	1 liter amber
COD	Water	E410.4	28 days	P, G	H2SO4(pH<2),4℃	250 ml
Coliform, Fecal (sw/ww)	Water	SM9222D	6 hours	P, sterilized	4℃, Na Thiosulfate	100 ml
Coliform, Total (sw/ww)	Water	SM 9222B	6 hours	P, sterilized	4℃, Na Thiosulfate	100 ml
Color	Water	110.2	48 hours	P, G	4℃	250 ml
Conductivity	Water	120.1	28 days	P, G	4℃	250 ml
Corrosivity	Waste	SW9045C	14 days	G	None	4oz glass
CTAS	Water	Call LRS	48 hours	P, G	4℃	*call LRS
Cyanide, Amenable	Water	335.1/ 9012/ 9014	14 days	P, G	NaOH(pH>12),4℃	500 ml
Cyanide, Amenable	Soil	9012/ 9014	14 days	P, G	4℃	4oz soil jar
Cyanide, Reactive	Waste	SW 7.3.3.2	7 days	P, G	4℃, am ber	500mL amber
Cyanide, Total	Water	335.2/ 335.4	14 days	P, G	NaOH(pH>12),4℃	500 ml
Cyanide, Total	Soil	9012/ 9014	14 days	P, G	NaOH(pH>12),4℃	4oz soil jar
Flash Point/Ignitability	Liquid	SW1010	14 days	P, G	None	250 ml
Flash Point/Ignitability	Solid	SW1010	14 days	G	None	4oz soil jar

Analysis	Matrix*	Method	Holding Time	Container	Preservative	Bottle
Fluoride	Water	300/ 9056	28 days	P, G	None	500 ml
Ferroas Iron	Water	SM3500	24 hours	P	HCL	250ml amber
Hardness	Water	SM 2340 B	6 months	P, G	HNO3/H2SO4 (pH<2)	500 ml
Herbicides	Water	SW8151	7 days (Ext)	G	4℃	2, 1 liter amb ers
Herbicides	Soil	SW8151	14 days (Ext)	G	4℃	4oz soil jar
Hexavalent Chromium	Water	SW7196	24 hours	P, G	4℃	500 ml
Hexavalent Chromium	Soil	SW7196	30 Days (Ext)	P, G	4℃	4oz soil jar
Lead	Air	N7300	6 months	**	None	Cassette
Lead	Wipe	NIOSH 7082M	6 months	***	None	Wipe
Lead	Paint chips	N7082	6 months	N/A	None	Glass/plastic
MBAS	Water	425.1	48 hours	P, G	4℃	2, l liter ambers
Mercury	Liquid	SW7470	28 days	P, G	HNO3(pH<2)	250 ml
Mercury	Soil	SW7471	28 days	P, G	4℃	4oz soil jar
Mercury	Drinking	245.1	28 days	P, G	HNO3(pH<2)	250 ml
Metals	Water	6010B/ 6020/200.7/ 200.8	6 months	P, G	HNO3(pH<2)	250 ml
Metals	Soil	6010B/ 6020 200.7/ 200.8	6 months	P, G	None	4oz soil jar
Nitrate	Water	300	48 hours	P, G	4℃	500 ml
Nitrate	Soil	353.2	28 days	P, G	4℃	4oz soil jar
Nitrate-Nitrate	Water	353.2	28 days	P, G	H2SO4(pH<2),4℃	250 ml
Nitrate-Nitrate	Soil	353.2	28 days	P, G	4℃	4oz soil jar
Nitrite	Water	300	48 hours	P, G	4℃	500 ml
Nitrite	Soil	353.2	28 days	P, G	4℃	4oz soil jar
Oil and Grease	Water	E1664	28 days	G, wide	H2SO4(pH<2),4℃	2, l liter ambers
Oil and Grease	Soil	SW9071B	28 days	G	4℃	4oz soil jar
PAH	Water	SW8270C	7 days (Ext)	G	4℃	2, l liter ambers
PAH	Soil	SW8270C	14 days (Ext)	G	4℃	4oz soil jar
PCB	Water	SW8082	7 days (Ext)	G	4℃	2, l liter ambers
PCB	Soil	SW8082	14 days (Ext)	G	4℃	4oz soil jar
Pesticides, Chlorinated	Water	SW8081	7 days (Ext)	G	4℃	2 , l liter ambers
Pesticides, Chlorinated	Soil	SW8081	14 days (Ext)	G	4℃	4oz soil jar
Pesticides, Special	Water	8270	7 days (Ext)	G	4℃	2, l li ter ambers
Pesticides, Special	Soil	8270	14 days (Ext)	G	4℃	4oz soil jar
pH	Water	E150.1	Immediately	P, G	None	250 ml
pH	Soil	SW9045C	28 days	P, G	None	4oz soil jar
Phenolics	Water	E420.1	28 days	G	H2SO4(pH<2),4℃	2, l lit er ambers
Phosphorus, Ortho	Water	E365.1	48 hours	P, G	4℃	250 ml
Phosphorus, Total	Water	E365.1	28 days	P, G	H2SO4(pH<2),4℃	250 ml
Phosphorus, Total	Soil	E365.1	28 days	P, G	4℃	4oz soil jar
Semi-Volatiles	Water	625/ SW8270C	7 days (Ext)	G	4℃	2, l liter ambers
EDB,DCBP	Water	SW8011	14 days (Ext)	40 ml VOA	4℃	2, 40ml Vials, unpreserved
Semi-Volatiles	Soil	SW8270C	14 days (Ext)	G	4℃	4oz soil jar
Solids, Settleable	Water	E160.5	48 hours	P	4℃	1 liter
Solids, Total	Water	160.3	7 days	P	4℃	500 ml

Analysis	Matrix*	Method	Holding Time	Container	Preservative	Bottle
Solids, Total Dissolved	Water	E160.1	7 days	P	4℃	500 ml
Solids, Total Suspended	Water	E160.2	7 days	P	4℃	500 ml
Sulfate	Water	300	28 days	P, G	4℃	500 ml
Sulfide	Water	376.1/ 9034	7 days	P, G	2N Zn Acetate, NaOH(pH>12), 4℃	500 ml
Sulfide	Soil	9034	28 days	P, G	4℃	4oz soil jar
Sulfide, Reactive	Waste	7.3.4.2	7 days	P (opaque), G (amber)	4℃	250 ml
Sulfite	Water	377.1	Immediately	P, G	4℃	500 ml
TCLP Extraction	Liquid/ Solid	1311	7 days	G	4℃	*call LRS
Temperature	Water	170.1	Immediately	P, G	None	250 ml
TKN	Water	351.2	28 days	P, G	H2SO4(pH<2),4℃	500 ml
TKN	Soil	351.2	28 days	P, G	4℃	4oz soil jar
Total Organic Carbon	Soil	9060	28 days	P, G	4℃	4oz soil jar
Total Organic Carbon	Water	9060/ 415.1	28 days	P, G	H2SO4(pH<2),4℃	250 ml
TOX	Water	9020B	7 days	P, G	H2SO4(pH<2),4℃	
TPH	Water	1664	14 days	G	H2SO4(pH<2),4℃	2, 1 liter amber s
TPH	Soil	9071	14 days	G	4℃	4oz soil jar
Turbidity	Water	180.1	48 hours	P, G	4℃	250 ml
Volatile Solids	Water/Soil	160.4	7 days	P, G	4℃	500 ml
Volatile Organics	Water	624/ 8260	14 days	G	HCL (pH<2), 4℃	2 HCL Vials
Volatile Organics	Soil	8260	48 hours, 14 days after pres.	Pre-weighed vials or Encore*	Sodium Bisulfate, methanol, 4℃	*call LRS
TCLP ZHE Extraction	Liquid/Soil	1311	14 days	G	None	*call LRS
Total Toxic Organics (TTO)	Water	E625/608	7/14 days	G	None	4 1-liter ambers
Total Toxic Organics (TTO)	Water	E624	14 days	40 ml VOA	HCL	3

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