

Biosolids Analytes: EPA approved methods*

All samples collected for the purpose of reporting to DEQ to satisfy the reporting requirements of the permit, as well as for development of all Nutrient Management plans and permit application, must be analyzed by methods approved by EPA 40CFRPart136 or EPA 40CFR Part 503. The list below includes most, but not all, methods approved by EPA for the analysis of biosolids for reporting purposes. If you are interested in using a method not identified below, please contact Christina Wood at 804-698-4263 or christina.wood@deq.virginia.gov.

DCLS has established “Fields of Certification” or FOCs. An FOC takes into consideration 3 things: the analyte or sample parameter; the sample matrix, such as solids, non-potable water or air; and the specific method of analysis. The FOCs identified below have all been established for VELAP’s “Solids and Chemical Materials” matrix. A “Y” in the column labeled VELAP FOC indicates that DCLS has established that FOC; a number indicates the only revision of those listed established as an FOC; and an “O” means that a revision other than that listed is established as an FOC. If you wish to use one of the methods for which an FOC has not been established, a request must be submitted to DCLS to develop that FOC.

VELAP FOC	Category	Analyte	Method	Rev	Date	Method Description	Notes, Required Sample Preparation, etc
	BacT	Enteric Viruses	ASTM D 4994-89		1992	Standard Practice For Recovery Of Viruses From Wastewater Sludges	
Y	BacT	Fecal Coliforms	SM 9222 D		1992, 2006	Fecal Coliforms By Quantitative Membrane Filtration	*May be used for Class B biosolids only. *analysis must be preceded by sample preparation in appendix F, EPA/625/R-92/013 *Comparability with MPN method must be demonstrated prior to using this method for compliance
	BacT	Fecal Coliforms	EPA 1681		2014	Fecal Coliforms In Sewage Sludge (Biosolids) By Multiple-Tube Fermentation, A-1 Medium	
Y	BacT	Fecal Coliforms	EPA 1680		2006	Fecal Coliforms In Sewage Sludge (Biosolids) By Multiple-Tube Fermentation, Lauryl Tryptose Broth (LTB) And EC Medium	

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Y	BacT	Fecal Coliforms	SM 9221 C E		1992, 2006	Multiple Tube Fermentation	*Analysis must be preceded by sample preparation in appendix F, EPA/625/R-92/013 *MPN calculation must be performed using SM9221-C *Quantitative analysis must be performed for monitoring purposes
	BacT	Helminth Ova	EPA 600/1-87-014		1987	Occurrence Of Pathogens In Distribution And Marketing Municipal Sludge Pb 88-154273/As	
	BacT	PREP: Fecal Coliform	EPA/625/R-92/013, Appendix F		2003	Sample Preparation For Fecal Coliform Tests And Salmonella Sp. Analysis	Must be performed prior to fecal coliform analysis using SM9221 E or SM9222 D
	BacT	Salmonella	EPA 1682		2014	Salmonella In Sewage Sludge (Biosolids) By Modified Semisolid Rappaport-Vassiliadis (MsrV) Medium	
	BacT	Salmonella	SM 9260 D		1992	Salmonella In Sewage Sludge (Biosolids) By Modified Semisolid Rappaport-Vassiliadis (MsrV) Medium	
	BacT	Salmonella & Pseudomonas Aeruginosa	pp. 2163-2171.	Vol. 46, no. 9	1974	Detection And Enumeration Of <i>Salmonella</i> And <i>Pseudomonas Aeruginos</i> , <i>Journal Of The Water Pollution Control Federation</i> , Vol. 46, No. 9, September 1974, Pp. 2163-2171.	*Analysis must be preceded by sample preparation in appendix F, EPA/625/R-92/013 A copy of the analysis procedure may be found at appendix G, EPA/625/R-92/013
Y	Inorg	Ammonia N	EPA 350.1	Rev 2	1993	Manual Distillation (at pH 9.5) followed by Automated Phenate	
O	Inorg	Ammonia N	SM 4500 NH3 D		2011	Electrode	Must be preceded by manual distillation (at pH 9.5)

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	Inorg	Ammonia N	SM 4500 NH3 E		2011	Electrode	Must be preceded by manual distillation (at pH 9.5)
Y	Inorg	Ammonia N	SM 4500 NH3 F		2011	Electrode	Must be preceded by manual distillation (at pH 9.5)
	Inorg	Ammonia N	SM 4500 NH3 G		2011	Electrode	Must be preceded by manual distillation (at pH 9.5)
O	Inorg	Ammonia N	ASTM D6919- 09			Ion Chromatography	
	Inorg	Ammonia N	SM 4500 NH3 G		-	Nesslerization	Must be preceded by manual distillation (at pH 9.5)
	Inorg	Calcium Carbonate Equivalence	AOAC 955.01			Calcium Carbonate Equivalence	
Y	Inorg	Nitrate	SW-846 9056	A		Determination Of Inorganic Anions By Ion Chromatography	For aqueous solutions
Y	Inorg	Nitrate + Nitrite	EPA 353.2	Rev. 2	1993	Automated Cadmium Reduction	Must be preceded by extraction from EPA method 1685, section 11.2, pages 11 - 12
O	Inorg	Nitrate + Nitrite	SM 4500 NO3 F		2011	Automated Cadmium Reduction	Must be preceded by extraction from EPA method 1685, section 11.2, pages 11 - 12

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Y	Inorg	pH	SW-846 9045	D		Soil And Waste pH	
	Inorg	PREP: Ammonia N	SM 4500 NH3 B		2011	Ammonia N - Preliminary Distillation Step	Manual distillation (at pH 9.5)
	Inorg	PREP: Nitrate + Nitrite	EPA 1685	Draft	2001	Sample Preparation	Sample preparation for no3 + no2 analysis must be in accordance with method 1685 section 11.2, pages 11 - 12 prior to cadmium reduction.
	Inorg	Specific Oxygen Uptake Rate	SM 2710 B	18th	1992	Specific Oxygen Uptake Rate	
	Inorg	Specific Oxygen Uptake Rate In Biosolids	EPA Method 1683			Specific Oxygen Uptake Rate In Biosolids	
	Inorg	TKN Digestion	SM 4500 Norg B		2011	Macro-Kjeldahl Method (Digestion)	Must Be Followed By Sm4500-NH3-B (distillation at pH 9.5) AND Approved SM NH3 Analysis Method
	Inorg	TKN Digestion	SM 4500 Norg C		2011	Semi-Micro-Kjeldahl Method (Digestion)	Must Be Followed By Sm4500-NH3-B distillation at pH 9.5) AND Approved SM NH3 Analysis Method
Y	Inorg	TKN - Total Kjeldal Nitrogen	EPA 351.2		1993	Semi-Automated Block Digestor Colorimetric	This is a complete procedure that includes block digestion and ammonia analysis
18	Inorg	Total Phosphorus	SM4500-P E		2011	Total phosphorus by Manual Ascorbic Acid reduction	All Samples Must Be Digested Using SM4500-P B.5, persulfate digestion

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Y	Inorg	Total Phosphorus	EPA 365.4		1974	Total phosphorus by Semi-Automated Block Digestor	
	Inorg	Total Phosphorus	EPA 365.3		1978	Manual Ascorbic Acid Reduction	
	Inorg	Total Phosphorus	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Inorg & Metals	PREP: Acid Digestion Of Sediments, Sludges, And Soils	SW-846 3050	B	1996	Acid Digestion Of Sediments, Sludges, And Soils	Use prior to metals or phosphorus analysis with FAAS; ICP-AES; or ICP-MS
	Inorg & Metals	PREP: Microwave Assisted Acid Digestion Of Sediments, Sludges, Soils, And Oils	SW-846 3051	A	1994	Microwave Assisted Acid Digestion Of Sediments, Sludges, Soils, And Oils	Use prior to metals or phosphorus analysis with FAAS; ICP-AES; or ICP-MS
	Metals	Total Aluminum	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Aluminum	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Aluminum	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis

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Y	Metals	Total Aluminum	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Arsenic	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Arsenic	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Arsenic	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis
	Metals	Total Arsenic	SW-846 7000	A	2007	Flame Atomic Absorption Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Arsenic	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Arsenic	SW-846 6020		(9/94)	Inductively Coupled Plasma-Mass Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Boron	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis

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Y	Metals	Total Boron	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Cadmium	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Cadmium	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Cadmium	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Cadmium	SW-846 7000	A	2007	Flame Atomic Absorption Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Cadmium	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Cadmium	SW-846 6020		(9/94)	Inductively Coupled Plasma-Mass Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Calcium	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis

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Y	Metals	Total Calcium	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Chromium	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Chromium	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Chromium	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Chromium	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Cobalt	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Cobalt	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Cobalt	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis

VELAP FOC	Category	Analyte	Method	Rev	Date	Method Description	Notes, Required Sample Preparation, etc
Y	Metals	Total Cobalt	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Copper	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Copper	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Copper	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Copper	SW-846 7000	A	2007	Flame Atomic Absorption Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Copper	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Copper	SW-846 6020		(9/94)	Inductively Coupled Plasma-Mass Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Iron	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis

VELAP FOC	Category	Analyte	Method	Rev	Date	Method Description	Notes, Required Sample Preparation, etc
	Metals	Total Iron	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Iron	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW- 846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Lead	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Lead	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Lead	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Lead	SW-846 7000	A	2007	Flame Atomic Absorption Spectrometry	All Samples Must Be Digested Using SW- 846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Lead	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW- 846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Lead	SW-846 6020		(9/94)	Inductively Coupled Plasma-Mass Spectrometry	All Samples Must Be Digested Using SW- 846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.

VELAP FOC	Category	Analyte	Method	Rev	Date	Method Description	Notes, Required Sample Preparation, etc
	Metals	Total Magnesium	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Magnesium	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Manganese	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Manganese	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Manganese	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Manganese	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Mercury	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Mercury	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis

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Y	Metals	Total Mercury	SW-846 7471	A or B		Mercury In Solid Or Semisolid Waste (Manual Cold-Vapor Technique)	
	Metals	Total Molybdenum	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Molybdenum	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Molybdenum	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
OM	Metals	Total Molybdenum	SW-846 6020		(9/94)	Inductively Coupled Plasma-Mass Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Nickel	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Nickel	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Nickel	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis

VELAP FOC	Category	Analyte	Method	Rev	Date	Method Description	Notes, Required Sample Preparation, etc
Y	Metals	Total Nickel	SW-846 7000	A	2007	Flame Atomic Absorption Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Nickel	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Nickel	SW-846 6020		(9/94)	Inductively Coupled Plasma-Mass Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Potassium	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Potassium	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Selenium	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Selenium	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Selenium	EPA Method 200.9	2.2	1994	Determination of Trace Elements by Stabilized Temperature Graphite Furnace Atomic Absorption	This is a complete procedure that includes digestion and analysis

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Y	Metals	Total Selenium	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
O	Metals	Total Selenium	SW-846 6020		(9/94)	Inductively Coupled Plasma-Mass Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
?	Metals	Total Sulfur	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
	Metals	Total Zinc	EPA Method 200.7	4.4	1994	Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma-Atomic Emission Spectrometry	This is a complete procedure that includes digestion and analysis
	Metals	Total Zinc	EPA Method 200.8	5.4	1994	Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry	This is a complete procedure that includes digestion and analysis
Y	Metals	Total Zinc	SW-846 7000	A	2007	Flame Atomic Absorption Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Metals	Total Zinc	SW-846 6010B	B		Inductively Coupled Plasma-Atomic Emission Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.

VELAP FOC	Category	Analyte	Method	Rev	Date	Method Description	Notes, Required Sample Preparation, etc
Y	Metals	Total Zinc	SW-846 6020		(9/94)	Inductively Coupled Plasma-Mass Spectrometry	All Samples Must Be Digested Using SW-846 Method 3050B, 3051A Or Equivalent (Using Equivalent To 1 Gram Dry Weight) Prior To Analysis By Any Of The Procedures Indicated.
Y	Org	4,4'-DDD	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	4,4'-DDE	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	4,4'-DDT	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	Aldrin	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	Benzo(A)Pyrene	SW-846 8270	C or D		Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS)	All Samples Must Be Extracted Using SW-846 3545A
Y	Org	Chlordane	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	Dieldrin	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	Dimethyl Nitrosamine	SW-846 8270	C or D		Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS)	All Samples Must Be Extracted Using SW-846 3510 C prior to GC/MS

VELAP FOC	Category	Analyte	Method	Rev	Date	Method Description	Notes, Required Sample Preparation, etc
Y	Org	Heptachlor	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	Hexachlorobenzene	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	Hexachlorobutadiene	SW-846 8270	C or D		Semivolatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS)	All Samples Must Be Extracted Using SW-846 3510C prior to GC/MS
Y	Org	Lindane	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
Y	Org	PCBs	SW-846 8082	A		Polychlorinated Biphenyls (PCBs) By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540C prior to GC
	Org	PREP: Liquid-Liquid Extraction	SW-846 3510	C	1996	Separatory Funnel Liquid-Liquid Extraction	
	Org	PREP: Pressurized Fluid Extraction (PFE)	SW-846 3545	A	(11/00)	Pressurized Fluid Extraction (PFE)	
	Org	PREP: Soxhlet Extraction	SW-846 3540	C	1996	Soxhlet Extraction	
Y	Org	Toxaphene	SW-846 8081	B		Organochlorine Pesticides By Gas Chromatography	All Samples Must Be Extracted Using SW-846 3540 prior to GC

VELAP FOC	Category	Analyte	Method	Rev	Date	Method Description	Notes, Required Sample Preparation, etc
Y	Org	Trichloroethylene	SW-846 8260	B		Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry (GC/MS)	
Y	Phys	Total Solids	SM 2540 G	18th ED	1992	Total, Fixed, And Volatile Solids In Solid And Semisolid Samples	
Y	Phys	Total Volatile Solids	SM 2540 G	18th ED	1992	Total, Fixed, And Volatile Solids In Solid And Semisolid Samples	