

# LS T1 LS Table 1

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### Approval and Periodic Review Signatures

Type	Description	Date	Version	Performed By	Notes
Approval	Lab Director	24-Jun-2024	10.0	<i>LTC James E Johnson</i> James Johnson	
Approval	Quality Assurance Officer, Review	21-Jun-2024	10.0	<i>Matthew Gigantino</i> Matthew Gigantino	
Approval	Scientific Director, Review	06-Jun-2024	10.0	<i>Dorian S. Olivera</i> Dorian Olivera	
Approval	Deputy Director, Review	05-Jun-2024	10.0	<i>Dr. Olumuyiwa Adesoye</i> Olumuyiwa Adesoye	

Signatures from prior revisions are not listed.

Approvals and periodic reviews that occurred before this document was added to the MediaLab Document Control system may not be listed.

### Version History

Version	Status	Type	Date Added	Date Effective	Date Retired
10.0	Approved and Current	Major revision	26-Feb-2024	24-Jun-2024	Indefinite

# Public Health Command Europe

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## Laboratory Sciences



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# How to use this guide

## Section I – Directory

This section is a quick reference for searching methodology by analyte type. Both the analyte text on the left and the method text on the right link to the corresponding method specification table. Methodologies are sorted by specialty, and color-coded as follows:

[Organic Chemistry](#), [Inorganic Chemistry](#), [Microbiology](#), [Molecular Biology](#), [Immuno-histology](#)

## Section II – Test Method Specification Tables

This second section provides specific details regarding each individual test method including hold times, limits of quantitation, sample parameters, and the analytes that may be measured under the method. These method specifications may be accessed by clicking the links in the Directory sections. Conversely, links at the bottom of each page will take you back to the various sections from which you came. Also, you may freely scroll through this document to browse all profiles and methods.

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<a href="#">Chlorinated Acid Herbicides</a>	<a href="#">EPA 515.4</a>
<a href="#">Di (2-ethylhexyl) adipate / Di (2-ethylhexyl) phthalate</a>	<a href="#">EPA 525.2</a>
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<a href="#">Aerobic Plate Count (APC) enumeration</a>	<a href="#">Internal Method – BA07</a>
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## Section II: Method Specifications

ORGANIC ANALYSIS					
EPA 505 (Modified)					
Atrazine and Simazine by GC/MS					
Analytes	LOQ		Hold Time	Container	Preservation
Atrazine Simazine	0.50	µg/L	14 Days from Collection	2 X 40mL amber glass vials with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 80mL	Sample vials are pre-preserved by adding 3mg sodium thiosulfate to each vial prior to sample collection. Do not rinse or overfill vials.  Chill samples immediately and store at 1-6°C.  Bottled water is exempt from preservation and storage requirements.

ORGANIC ANALYSIS					
EPA 531.2					
Carbamate Pesticides by HPLC/FLD/PCX					
Analytes	LOQ		Hold Time	Container	Preservation
Aldicarb Aldicarb Sulfone Aldicarb Sulfoxide Baygon (Propoxur) Carbaryl Carbofuran 3-Hydroxycarbofuran Methiocarb Methomyl Oxamyl (Vydate)	0.10	µg/L	28 Days from Collection	2 X 40mL amber glass vials with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 80mL  If also requesting analysis by EPA 547, one set of samples can be provided for both EPA 531.2 and EPA 547 analyses.	Sample vials are pre-preserved by adding 4.0 ± 0.5mg sodium thiosulfate and 400 ± 10mg potassium dihydrogen citrate to each vial prior to sample collection. Samples must be pH < 4. Do not rinse or overfill vials.  Chill samples immediately and store at 1-6°C, protected from light.  Bottled water is exempt from preservation and storage requirements.

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ORGANIC ANALYSIS					
EPA 547					
Carbamate Pesticides by HPLC/FLD/PCX					
Analytes	LOQ		Hold Time	Container	Preservation
Glyphosate	5.0	µg/L	14 days from collection	2 X 40mL amber glass vials with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 80mL  If also requesting analysis by EPA 531.2, one set of samples can be provided for both EPA 547 and EPA 531.2 analyses.	Sample vials are pre-preserved by adding 4.0 ± 0.5mg sodium thiosulfate and 400 ± 10mg potassium dihydrogen citrate to each vial prior to sample collection. Samples must be pH < 4. Do not rinse or overfill vials.  Store samples at 1-6°C, protected from light.  Bottled water is exempt from preservation and storage requirements.
Aminomethylphosphonic Acid (AMPA)					

ORGANIC ANALYSIS					
EPA 515.4					
Chlorinated Acid Herbicides by GC/ECD					
Analytes	LOQ		Hold Time	Container	Preservation
Bentazon	0.50	µg/L	14 Days from Collection	3 X 40mL amber glass vials with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 120mL	Sample vials are pre-preserved by adding 2mg sodium sulfite to each vial prior to sample collection. Do not rinse or overfill vials.  Chill samples immediately and store at 1-6°C.  Bottled water is exempt from preservation and storage requirements.
2,4-D					
Dichlorprop					
Dinoseb					
Pentachlorophenol					
Picloram					
2,4,5-T					
2,4,5-TP (Silvex)					

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ORGANIC ANALYSIS					
EPA 525.2					
Di (2-ethylhexyl) adipate / Di (2-ethylhexyl) phthalate by GC/MS					
Analytes	LOQ	Hold Time	Container	Preservation	
Di (2-ethylhexyl) adipate Di (2-ethylhexyl) phthalate	3.0	µg/L	14 Days from Collection	2 X 1L amber glass bottles with PTFE-lined caps OR bottled water in original, sealed bottle(s) containing ≥ 2L	Sample bottles are pre-preserved by adding 40-50mg sodium sulfite to each bottle prior to sample collection and acidified to pH <1.9 with 6N HCL. Do not rinse or overfill bottles.  Chill samples immediately and store at 1-6°C, protected from light.  Bottled water is exempt from preservation and storage requirements.

ORGANIC ANALYSIS					
EPA 552.3					
Haloacetic Acids (HAA5s) by GC/ECD					
Analytes	LOQ	Hold Time	Container	Preservation	
Dalapon Dibromoacetic Acid Dichloroacetic Acid Monobromoacetic Acid Monochloroacetic acid Trichloroacetic acid	3.0	µg/L	14 Days from Collection	3 X 40mL amber glass vials with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 120mL	Sample vials are pre-preserved by adding 5mg ammonium chloride to each vial prior to sample collection. Do not rinse or overfill vials.  Chill samples immediately and store at 1-6°C, protected from light.  Bottled water is exempt from preservation and storage requirements.
Total HAA5s	15.0	µg/L			

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ORGANIC ANALYSIS					
EPA 504.1					
Dibromochloropentane / Ethylene Dibromide by GC					
Analytes	LOQ		Hold Time	Container	Preservation
1,2-Dibromo-3-chloropropane (DBCP)	0.030	µg/L	14 Days from Collection	3 X 40mL amber glass vials with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 120mL  If also requesting analysis by EPA 505, one set of samples can be provided for both EPA 504.1 and EPA 505 analyses.	Sample vials are pre-preserved by adding 3mg sodium thiosulfate to each vial prior to sample collection. Collect sample free of air bubbles. Do not rinse or overfill vials.  Chill samples immediately and store at 1-6°C.  Bottled water is exempt from preservation and storage requirements.
1,2-Dibromoethane (EDB)					

ORGANIC ANALYSIS					
EPA 505					
Organohalide Pesticides / PCBs by GC					
Analytes	LOQ		Hold Time	Container	Preservation
Heptachlor	0.10	µg/L	7 Days from Collection	3 X 40mL amber glass vials with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 120mL  If also requesting analysis by EPA 504.1, one set of samples can be provided for both EPA 505 and EPA 504.1 analyses.	Collect sample free of air bubbles.  Sample vials are pre-preserved by adding 5mg sodium thiosulfate to each vial prior to sample collection. Do not rinse or overfill vials.  Chill samples immediately and store at 1-6°C.  Bottled water is exempt from preservation and storage requirements.
Alachlor			14 Days from Collection		
Aldrin	1.0				
Dieldrin					
Endrin					
Heptachlor Epoxide					
Hexachlorobenzene					
Hexachlorocyclopentadiene					
Lindane (gamma-BHC)					
Methoxychlor					
Chlordane					
Toxaphene					
PCB (as Aroclors)					
PCB-1016					
PCB-1221					
PCB-1232					
PCB-1242					
PCB-1248					
PCB-1254					
PCB-1260					

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ORGANIC ANALYSIS					
EPA 550					
Polycyclic Aromatic Hydrocarbons (PAHs) by HPLC / UV Fluorescence					
Analytes	LOQ	Hold Time	Container	Preservation	
Benzo[a]anthracene	0.010	µg/L	7 Days from Collection	2 X 1L amber glass or foil-wrapped bottles OR bottled water in original, sealed bottle(s) containing ≥ 2L	Sample vials are pre-preserved by adding 100mg sodium thiosulfate to each bottle prior to sample collection. Samples are acidified with 6N HCL to pH < 2 upon collection. Do not rinse or overfill bottles.  Chill samples immediately and store at 1-6°C, protected from light.  Bottled water is exempt from preservation and storage requirements.
Benzo[b]fluoranthene					
Benzo[k]fluoranthene					
Benzo[g,h,i]perylene					
Benzo[a]pyrene					
Chrysene					
Indeno[1,2,3- cd]pyrene					

ORGANIC ANALYSIS						
EPA 537.1						
Poly-Fluorinated Alkyl Substances (PFAS) by SPE/LC/MS/MS						
Analytes	LOQ	Hold Time	Container	Preservation		
N-methyl perfluorooctanesulfonamidoacetic acid (HFPO-DA/Gen X Acid)	2.0	ng/L	14 Days from Collection	3 X 250mL polypropylene bottle w/ polypropylene screw cap OR bottled water in original, sealed bottle(s) containing ≥ 750mL	Sample vials are pre-preserved by adding 1.25g Trizma crystals to each bottle prior to sample collection. Do not rinse or overfill bottles.  Chill samples immediately and store at 1-6°C.  Bottled water is exempt from preservation and storage requirements.	
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)						
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)						
Perfluorobutanesulfonic acid (PFBS)						
Perfluorodecanoic acid (PFDA)						8.0
Perfluorododecanoic acid (PFDoA)						2.0
Perfluoroheptanoic acid (PFHpA)						
Perfluorohexanesulfonic acid (PFHxS)						
Perfluorohexanoic acid (PFHxA)						
Perfluorononanoic acid (PFNA)						8.0
Perfluorooctanesulfonic acid (PFOS)						
Perfluorooctanoic acid (PFOA)						2.0
Perfluorotetradecanoic acid (PFTA)						
Perfluorotridecanoic acid (PFTrDA)						
Perfluoroundecanoic acid (PFUnA)						
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS/F53B Major)						
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS/F53B Minor)						
4,9-dioxa-3H-perfluorononanoic acid (DONA/ADONA Acid)						

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ORGANIC ANALYSIS					
EPA 524.4					
Purgeable Organic Compounds (Volatiles) by GC/MS					
Analytes	LOQ		Hold Time	Container	Preservation
1,1,1-Trichloroethane	0.50	µg/L	14 Days from Collection	3 X 40mL amber glass vials w/ Teflon-lined septa and open top screw caps. OR bottled water in original, sealed bottle containing ≥ 120mL	Sample vials are pre-preserved by adding 25mg ascorbic and 200mg maleic acid added prior to sample collection. Do not rinse or overfill vials. Avoid bubbles and minimize headspace.  The pH must be ≤ 2.  Chill samples immediately and store at 1-6°C.  Bottled water is exempt from preservation and storage requirements.
1,1,2-Trichloroethane					
1,1-Dichloroethylene					
1,2-Dichloroethane					
1,2-dichloropropane					
Benzene					
Carbon tetrachloride					
Monochlorobenzene					
Cis-1,2-dichloroethylene					
Ethylbenzene					
o-Dichlorobenzene					
p-Dichlorobenzene					
Styrene					
Tetrachloroethylene					
Toluene					
Trans-1,2-dichloroethylene					
Trichloroethylene					
Vinyl Chloride					
o-xylene					
m, p-xylene					
Xylene (total)	1.5				
1,2,4-Trichlorobenzene	0.50				
1,1,1,2-Tetrachloroethane					
1,1,2,2-Tetrachloroethane					
1,1-Dichloroethane					
1,1-Dichloropropene					
1,2,3-Trichlorobenzene					
1,2,3-Trichloropropane					
1,3-Dichloropropane					
2,2-Dichloropropane					
2-chlorotoluene					
4-chlorotoluene					
4-Isopropyltoluene					
Bromobenzene					
Bromochloromethane					
Bromomethane					
Chloroethane					
Chloromethane					
cis-1,3-Dichloropropene					
Dibromomethane					
Dichlorodifluoromethane					
Hexachlorobutadiene					
Isopropylbenzene					
m-dichlorobenzene					
Methyl tert-butyl ether (MTBE)					
Naphthalene					
n-Butylbenzene					
n-Propylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
trans-1,3-Dichloropropene					
Trichlorofluoromethane					
Bromodichloromethane					
Bromoform					

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EPA 524.4 - CONTINUED					
Purgeable Organic Compounds (Volatiles) by GC/MS					
Analytes	LOQ	Hold Time	Container	Preservation	
Chlorodibromomethane	0.50	µg/L			
Chloroform					
Total Trihalomethanes (TTHM)	2.0				
1,2,4-Trimethylbenzene	0.50				
1,3,5-Trimethylbenzene					
Dichloromethane					
1,2-Dibromo-3-chloropropane (DBCP)					
1,2-Dibromoethane (EDB)					

ORGANIC ANALYSIS					
EPA 8260D					
Purgeable Organic Compounds (Volatiles) by GC/MS					
Analytes	LOQ	Hold Time	Container	Preservation	
<b>SOILS Preserved in Water</b>					
1,1,1-Trichloroethane	0.02	mg/kg	14 days from Collection	3 X 40mL amber glass vials with Teflon-lined septa and open top screw caps	Approximately 5g of soil fully immersed in preservation liquid. Minimize headspace.  Samples with stir bars and 10mL reagent water containing sodium bisulfate (2 ± 0.2g) as preservative. If any effervescence occurs upon sampling, new samples must be collected using methanol preservation.  Chill samples immediately and store at 1-6°C.
1,1,2-Trichloroethane					
1,1-Dichloroethylene					
1,2-Dichloroethane					
1,2-Dichloropropane					
Benzene					
Carbon tetrachloride					
Monochlorobenzene					
Cis-1,2-dichloroethylene					
Ethylbenzene					
o-Dichlorobenzene					
p-Dichlorobenzene					
Styrene					
Tetrachloroethylene					
Toluene					
Trans-1,2-dichloroethylene					
Trichloroethylene					
Vinyl Chloride					
o-xylene					
m, p-xylene					
Xylenes, total	0.06				
1,2,4-Trichlorobenzene	0.02				
1,1,1,2-Tetrachloroethane					
1,1,2,2-Tetrachloroethane					
1,1-Dichloroethane					
1,1-Dichloropropene					
1,2,3-Trichlorobenzene					
1,2,3-Trichloropropane					
1,3-Dichloropropane					
2,2-Dichloropropane					
2-chlorotoluene					
4-chlorotoluene					
4-Isopropyltoluene					
Bromobenzene					
Bromochloromethane					
Bromomethane					
Chloroethane					

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EPA 8260D - CONTINUED					
Purgeable Organic Compounds (Volatiles) by GC/MS					
Analytes	LOQ		Hold Time	Container	Preservation
<b>SOILS Preserved in Water</b>					
Chloromethane	0.02	mg/kg	14 days from Collection	3 X 40mL amber glass vials with Teflon-lined septa and open top screw caps  An additional 10g of unpreserved soil in 40mL vial must be collected for each sample from the same sample source and provided for dry weight analysis.	Approximately 5g of soil fully immersed in preservation liquid. Minimize headspace.  Samples with stir bars and 10mL reagent water containing sodium bisulfate (2 ± 0.2g) as preservative. If any effervescence occurs upon sampling, new samples must be collected using methanol preservation.  Chill samples immediately and store at 1-6°C.
cis-1,3-Dichloropropene					
Dibromomethane					
Dichlorodifluoromethane					
Hexachlorobutadiene					
Isopropylbenzene					
m-dichlorobenzene					
Methyl tert-butyl ether (MTBE)					
Naphthalene					
n-Butylbenzene					
n-Propylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
trans-1,3-Dichloropropene					
Trichlorofluoromethane					
Bromodichloromethane					
Bromoform					
Chlorodibromomethane					
Chloroform					
Total Trihalomethanes (TTHM)	0.08				
1,2,4-Trimethylbenzene	0.02				
1,3,5-Trimethylbenzene					
Dichloromethane					
1,2-Dibromo-3-chloropropane (DBCP)					
1,2-Dibromoethane (EDB)					
<b>SOILS Preserved in Methanol</b>					
1,1,1-Trichloroethane	2.0	mg/kg	14 days from Collection	1 X 40mL amber glass vials with Teflon-lined septa and open top screw caps  An additional 10g of unpreserved soil in 40mL vial must be collected for each sample from the same sample source and provided for dry weight analysis.	Approximately 5g of soil fully immersed in preservation liquid. Minimize headspace.  Samples in 10mL methanol as preservative.  Chill samples immediately and store at 1-6°C.
1,1,2-Trichloroethane					
1,1-Dichloroethylene					
1,2-Dichloroethane					
1,2-Dichloropropane					
Benzene					
Carbon tetrachloride					
Monochlorobenzene					
Cis-1,2-dichloroethylene					
Ethylbenzene					
o-Dichlorobenzene					
p-Dichlorobenzene					
Styrene					
Tetrachloroethylene					
Toluene					
Trans-1,2-dichloroethylene					
Trichloroethylene					
Vinyl Chloride					
o-xylene					
m, p-xylene					
Xylenes, total					
1,2,4-Trichlorobenzene					
1,1,1,2-Tetrachloroethane					
1,1,2,2-Tetrachloroethane					
1,1-Dichloroethane					
1,1-Dichloropropene					
1,2,3-Trichlorobenzene					
1,2,3-Trichloropropane					

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EPA 8260D - CONTINUED					
Purgeable Organic Compounds (Volatiles) by GC/MS					
Analytes	LOQ		Hold Time	Container	Preservation
<b>SOILS Preserved in Methanol</b>					
1,3-Dichloropropane	2.0	mg/kg	14 days from Collection	1 X 40mL amber glass vials with Teflon-lined septa and open top screw caps  An additional 10g of unpreserved soil in 40mL vial must be collected for each sample from the same sample source and provided for dry weight analysis.	Approximately 5g of soil fully immersed in preservation liquid. Minimize headspace.  Samples in 10mL methanol as preservative.  Chill samples immediately and store at 1-6°C.
2,2-Dichloropropane					
2-chlorotoluene					
4-chlorotoluene					
4-Isopropyltoluene					
Bromobenzene					
Bromochloromethane					
Bromomethane					
Chloroethane					
Chloromethane					
cis-1,3-Dichloropropene					
Dibromomethane					
Dichlorodifluoromethane					
Hexachlorobutadiene					
Isopropylbenzene					
m-dichlorobenzene					
Methyl tert-butyl ether (MTBE)					
Naphthalene					
n-Butylbenzene					
n-Propylbenzene					
sec-Butylbenzene					
tert-Butylbenzene					
trans-1,3-Dichloropropene					
Trichlorofluoromethane					
Bromodichloromethane					
Bromoform					
Chlorodibromomethane					
Chloroform					
Total Trihalomethanes (TTHM)	8.0				
1,2,4-Trimethylbenzene	2.0				
1,3,5-Trimethylbenzene					
Dichloromethane					
1,2-Dibromo-3-chloropropane (DBCP)					
1,2-Dibromoethane (EDB)					
<b>NON-POTABLE WATER</b>					
1,1,1-Trichloroethane	0.5	µg/L	14 days from Collection	3 X 40mL amber glass vials with Teflon-lined septa and open top screw caps	Sample vials are pre-preserved by adding 25mg ascorbic and 200mg maleic acid added prior to sample collection. Do not rinse or overfill vials. Avoid bubbles and minimize headspace.  The pH must be ≤ 2.  Chill samples immediately and store at 1-6°C.
1,1,2-Trichloroethane					
1,1-Dichloroethylene					
1,2-Dichloroethane					
1,2-dichloropropane					
Benzene					
Carbon tetrachloride					
Monochlorobenzene					
Cis-1,2-dichloroethylene					
Ethylbenzene					
o-Dichlorobenzene					
p-Dichlorobenzene					
Styrene					
Tetrachloroethylene					
Toluene					
Trans-1,2-dichloroethylene					
Trichloroethylene					
Vinyl Chloride					
o-xylene					

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ORGANIC ANALYSIS					
EPA 525.2 (Modified)					
Semi-volatile Compounds (SVOCs) by GC/MS					
Analytes	LOQ	Hold Time	Container	Preservation	
Benzo[a]anthracene	0.25	µg/L	14 Days from Collection	3 X 40mL amber glass bottles with PTFE-lined caps OR bottled water in original, sealed bottle containing ≥ 120mL	Sample vials are pre-preserved by adding 40-50mg sodium sulfite prior to sample collection. Samples are acidified with 6N HCL to pH ≤ 1.9 upon collection. Do not rinse or overfill bottles.  Chill samples immediately and store at 1-6°C, protected from light.
Benzo[b]fluoranthene					
Benzo[k]fluoranthene					
Benzo[g,h,i]perylene					
Benzo[a]pyrene					
Chrysene					
Indeno[1,2,3- cd]pyrene	2.0				Bottled water is exempt from preservation and storage requirements.
Di (2-ethylhexyl) adipate (DEHA)					
Di (2-ethylhexyl) phthalate					

INORGANIC ANALYSIS					
SM 2320B (22nd) (Modified)					
Alkalinity by Metrohm					
Analytes	LOQ	Hold Time	Container	Preservation	
Alkalinity	N/A	mg/L	ASAP, NLT 14 days from collection	Sample size ≥ 50mL Glass or polyethylene bottle, filled completely and sealed. OR bottled water in original, sealed bottle containing ≥ 50mL  If also requesting analysis by EPA 150.1 (pH) and/or SM2510B (Conductivity) one sample can be provided for multiple analyses.	Unpreserved.  Store samples at 1-6°C. Avoid agitation.

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INORGANIC ANALYSIS					
ASTM D6919					
Ammonia by Ion Chromatography					
Analytes	LOQ		Hold Time	Container	Preservation
Ammonia as N	0.10	mg/L	28 days from collection	Sample size ≥ 10mL. Plastic bottles, i.e., polypropylene or polyethylene OR bottled water in original, sealed bottle containing ≥ 10mL	pH < 2 with H2SO4

INORGANIC ANALYSIS					
EPA 300.0					
Anions by Ion Chromatography					
Analytes	LOQ		Hold Time	Container	Preservation
Bromide	0.10	mg/L	28 days from collection	Sample size ≥ 10mL. Glass or plastic bottle, i.e., polypropylene or polyethylene OR bottled water in original, sealed bottle containing ≥ 10mL	Unpreserved.
Chloride	1.0				
Fluoride	0.10				
Sulfate	1.0				Store samples at 1-6°C.
Total Nitrite/Nitrate (as N)	0.10				
Nitrate as N			48 hours from collection, unless chlorinated: 14 days		Store samples at 1-6°C.
Nitrite as N	0.030		48 hours from collection		
o-Phosphate as P	0.10				

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INORGANIC ANALYSIS					
SM 4500-Cl-G (22nd)					
Total Chlorine by spectrophotometry					
Analytes	LOQ	Hold Time	Container	Preservation	
Chlorine, total	0.10	mg/L	ASAP, NLT 48 hours from collection	Sample size ≥ 20mL Plastic bottles OR bottled water in original, sealed bottle containing ≥ 20mL	Unpreserved.  Store samples at 1-6°C, protected from light.

INORGANIC ANALYSIS					
SM 2120B (22nd)					
Apparent Color by Nessler tube - <b>Sample pH affects color. For each sample sent for color analysis, a sample from the same source must be sent for the following analysis:</b>					
1. pH by <a href="#">EPA 150.1</a>					
Analytes	LOQ	Hold Time	Container	Preservation	
Color, apparent	5	CU	48 hours from collection	Sample size ≥ 100mL OR bottled water in original, sealed bottle containing ≥ 100mL	Unpreserved.  Store samples at 1-6°C.

INORGANIC ANALYSIS					
SM 2340B (22nd)					
Hardness by ICP-AES					
Analytes	LOQ	Hold Time	Container	Preservation	
Hardness, Total	1.0	mg/L	6 months from collection	Sample size ≥ 30mL OR bottled water in original, sealed bottle containing ≥ 30mL	Samples are acidified at collection or upon arrival to PHCE/LS/LOD by addition of 5mL of 2X nitric acid/L of sample.  Store preserved samples at room temperature.

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INORGANIC ANALYSIS					
SM 2510B (22nd)					
Conductivity by Metrohm					
Analytes	LOQ		Hold Time	Container	Preservation
Conductivity	5.0	µmhos /cm	28 days from collection	Sample size ≥ 50mL Glass or polyethylene bottle, filled completely and sealed OR bottled water in original, sealed bottle containing ≥ 50mL  If also requesting analysis by EPA 150.1 (pH) and/or SM 2320B (Alkalinity) one sample can be provided for multiple analyses.	Unpreserved.  Store samples at 1-6°C. Avoid agitation.

INORGANIC ANALYSIS					
Handbook of Environmental Analysis					
Langelier Saturation Index Calculation – <b>Sample pH and temperature must be recorded at collection.</b> <b>Calculation of Langelier SI requires all three analyses listed here:</b>					
1. Calcium by <a href="#">EPA 200.7</a> 2. Alkalinity by <a href="#">SM2320B (22<sup>nd</sup>) (modified)</a> 3. Total Dissolved Solids by <a href="#">SM 2540C (22<sup>nd</sup>)</a>					
Analytes	LOQ		Hold Time	Container	Preservation
Saturation Index, Langelier	N/A	SI unit	See respective requirements above.		

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INORGANIC ANALYSIS					
EPA 200.7					
Metals by ICP-MS					
Analytes	LOQ	Hold Time	Container	Preservation	
Aluminum	0.060	mg/L 14 days for unacidified samples, 6 Months from collection for acidified samples	Sample size ≥ 30mL, collected in plastic or glass bottle OR bottled water in original, sealed bottle containing ≥ 30mL	Samples are acidified at collection or upon arrival to PHCE/LS/LOD by addition of 5mL of 2X nitric acid/L of sample to pH ≤ 2.  Store preserved samples at room temperature.	
Antimony	0.030				
Arsenic	0.030				
Barium	0.0020				
Beryllium	0.0020				
Boron	0.0050				
Cadmium	0.0020				
Calcium	0.20				
Chromium	0.0020				
Cobalt	0.0060				
Copper	0.0030				
Iron	0.0050				
Lead	0.020				
Magnesium	0.10				
Manganese	0.0020				
Molybdenum	0.020				
Nickel	0.0060				
Phosphorus, Total	0.060				
Potassium	0.30				
Selenium	0.030				
Silicon	0.060				
Silver	0.0020				
Sodium	0.50				
Thallium	0.020				
Tin	0.020				
Uranium	0.060				
Vanadium	0.0020				
Zinc	0.030				
Silver (dissolved) DENTCOM	0.0020				

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INORGANIC ANALYSIS					
EPA 200.8					
Metals by ICP-MS					
Analytes	LOQ		Hold Time	Container	Preservation
Mercury	0.00025	mg/L	28 Days from Collection	Sample size ≥ 30mL, collected in plastic or glass bottle OR bottled water in original, sealed bottle containing ≥ 30mL	Samples are acidified at collection or upon arrival to PHCE/LS/LOD by addition of 5mL of 2X nitric acid/L of sample.  Store preserved samples at room temperature.
Aluminum	0.0050		14 days for unacidified samples, 6 Months from collection for acidified samples		
Antimony	0.00050				
Arsenic	0.0030				
Barium	0.0020				
Beryllium	0.00050				
Cadmium	0.00050				
Chromium	0.0020				
Cobalt	0.0020				
Copper	0.0020				
Lead	0.0010				
Manganese	0.0020				
Molybdenum	0.0030				
Nickel	0.0030				
Selenium	0.0050				
Silver	0.0030				
Thallium	0.00020				
Tin	0.0020				
Uranium	0.0020				
Vanadium	0.0020				
Zinc	0.010				

INORGANIC ANALYSIS					
SM 2150B (22nd)					
Odor by olfaction					
Analytes	LOQ		Hold Time	Container	Preservation
Odor	1	TON	48 hours from collection	Sample size ≥ 400mL in glass with Teflon-lined caps, OR bottled water in original, sealed bottle containing ≥ 400mL	Unpreserved.  Store samples at 1-6°C.

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INORGANIC ANALYSIS					
EPA 150.1					
pH by Metrohm					
Analytes	LOQ	Hold Time	Container	Preservation	
pH	0.10	pH unit	ASAP, NLT 7 days from collection	Sample size ≥ 100mL Glass or poly-ethylene bottle OR bottled water in original, sealed bottle containing ≥ 100mL  If also requesting analysis by SM2510B (Conductivity) and/or SM 2320B (Alkalinity) one sample can be provided for multiple analyses.	Unpreserved.  Fill bottle completely and seal. Store samples at 1-6°C. Avoid agitation.

INORGANIC ANALYSIS					
SM 2540C (22nd)					
Total Dissolved Solids by dried weight					
Analytes	LOQ	Hold Time	Container	Preservation	
Total Dissolved Solids	50	mg/L	ASAP, NLT 7 days from collection	≥ 150 mL, duplicate needed for each 10 samples.	Unpreserved.  Store samples at 1-6°C.

INORGANIC ANALYSIS					
SM 2540D (22nd)					
Total Suspended Solids by filtered dried weight					
Analytes	LOQ	Hold Time	Container	Preservation	
Total Suspended Solids	2.0	mg/L	ASAP, NLT 7 days from collection	≥ 1 liter, duplicate needed for each 10 samples	Unpreserved.  Store samples at 1-6°C.

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INORGANIC ANALYSIS					
EPA 180.1					
Turbidity by Turbidometer					
Analytes	LOQ	Hold Time	Container	Preservation	
Turbidity	0.50	NTU	ASAP, NLT 48 hours from collection	Sample size ≥ 100mL	Unpreserved. Store samples at 1-6°C.

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MICROBIOLOGICAL ANALYSIS					
Internal Method – BA05					
Coliform enumeration by Petri-film					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Canned Infant Formula	10	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-8°C.  Frozen samples maintain -15°C to -25°C.  Room-temp samples maintain at room temp.
Cottage and Ricotta cheese					
Buttermilk – As “Grade A Past. Milk and/or Milk Products”					
Chilled yogurt, yogurt drinks, and frozen yogurt (flavored)					
Sour cream					
Butter					
Condensed/concentrated milk					
Eggnog – As “Grade A Past. Milk and/or Milk Products”					
Milk and cream, Pasteurized and Ultra-Pasteurized, including Flavored					
Ice cream, flavored ice cream mix, and ice cream novelties					
Kimchee					
<b>SURFACE SWABS</b>					
Surface Swabs	10	cfu/50cm <sup>2</sup>	72 hours	Swab tube with Hi-CAP Neutralizing Broth	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer’s insert.
Escherichia coli enumeration by Petri-film					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Hard, soft, natural, and processed cheeses	10	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-8°C.  Frozen samples maintain -15°C to -25°C.  Room-temp samples maintain at room temp.
Bagged salad, fresh or processed fruits and vegetables					
Kimchee					
Raw beef					
Raw clams, oysters, mussels, and scallops (fresh or frozen)					
<b>SURFACE SWABS</b>					
Surface Swabs	1	cfu/50cm <sup>2</sup>	72 hours	Swab tube with Hi-CAP Neutralizing Broth	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer’s insert.

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MICROBIOLOGICAL ANALYSIS					
Internal Method – BA07					
Aerobic Plate Count (APC) and Standard Plate Count (SPC) enumeration by Petri-film					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Canned Infant Formula	100	cfu/g	Item expiration date	Sealed original packaging or for prepared foods, sterile container.	Refrigerated samples maintain 1-8°C.
Milk and cream, Pasteurized and Ultra-Pasteurized, including Flavored	2500				Frozen samples maintain -15°C to -25°C.
Ice cream, flavored ice cream mix, and ice cream novelties	1000			Sample must be ≥ 100g.	Room-temp samples maintained at room temp.
Raw beef					
Raw clams, oysters, mussels, and scallops (fresh or frozen)					
<b>SURFACE SWABS</b>					
Surface Swabs	10	cfu/50cm <sup>2</sup>	72 hours	Swab tube with Hi-CAP Neutralizing Broth	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer's insert.

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA09					
Listeria monocytogenes enrichment and isolation by VIDAS					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Canned infant formula	Non-detect	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-8°C.
Hard, soft, natural, and processed cheeses					Frozen samples maintain -15°C to -25°C.
Bagged salad, fresh or processed fruits and vegetables					Room-temp samples maintain at room temp.
Kimchee					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat fish (bulk is fish)					
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

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Internal Method – BA09 - CONTINUED				
Listeria monocytogenes enrichment and isolation by VIDAS				
Matrices	LOQ	Hold Time	Container	Preservation
<b>SURFACE SWABS</b>				
Environmental Swabs	Qualitative	24 hours	Swab tube not containing Hi-CAP Neutralizing Broth	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer's insert.
<b>SPONGE STICKS</b>				
Sponge Sticks	Qualitative	72 hours	Sponge Stick in original pouch	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer's insert.

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA10					
Bacillus cereus enumeration by MYP agar and VITEK 2					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Canned infant formula	100	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	
Hard, soft, natural, and processed cheeses	1000				Refrigerated samples maintain 1-6°C.  Dehydrated foods may be maintained at room temperature and shipped without refrigeration.
Kimchee					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

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MICROBIOLOGICAL ANALYSIS					
Internal Method - BA11					
Identification of Micro-organisms Using VITEK					
Analytes	LOQ		Hold Time	Container	Preservation
<b>WATER</b>					
Escherichia coli	N/A	N/A	N/A	N/A	N/A
Total Coliforms					
Pseudomonas aeruginosa					
Enterococcus spp.					
Clostridium perfringens					
<b>FOOD</b>					
Bacillus cereus	N/A	N/A	N/A	N/A	N/A
Staphylococcus aureus					
Escherichia coli O157:H7					
Listeria monocytogenes					
Salmonella ssp.					
Clostridium perfringens					
Campylobacter jejuni					
<b>SURFACE SWABS</b>					
Listeria ssp.	N/A	N/A	N/A	N/A	N/A
Salmonella ssp.					
<b>SPONGE STICKS</b>					
Escherichia coli O157:H7	N/A	N/A	N/A	N/A	N/A
Listeria spp.					
Salmonella spp.					

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MICROBIOLOGICAL ANALYSIS					
Internal Method - BA12					
Identification of Micro-organisms Using Vidas					
Analytes	LOQ	Hold Time	Container	Preservation	
<b>WATER</b>					
Listeria spp.	N/A	N/A	N/A	N/A	N/A
Salmonella spp.					
<b>FOOD</b>					
Escherichia coli O157:H7	N/A	N/A	N/A	N/A	N/A
Salmonella spp.					
Campylobacter jejuni					
Listeria monocytogenes					
Listeria spp.					
<b>SURFACE SWABS</b>					
Listeria spp.	N/A	N/A	N/A	N/A	N/A
Salmonella spp.					
<b>SPONGE STICKS</b>					
Listeria spp.	N/A	N/A	N/A	N/A	N/A
Salmonella spp.					
Escherichia coli O157:H7					

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA13					
Salmonella spp. Enrichment and isolation by VIDAS SLM					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Canned infant formula	Non-detect	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-6°C.
Hard, soft, natural, and processed cheeses					Frozen samples maintain as frozen.
Ice cream, flavored ice cream mix, and ice cream novelties					Room-temp samples maintain at room temp.
Kimchee					
Juices, nectars, and smoothies					
Eggs					

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MICROBIOLOGICAL ANALYSIS					
Internal Method – BA14					
Escherichia coli O157:H7 Enrichment and Isolation by VIDAS					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Canned infant formula	Non-detect	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-8°C.  Frozen samples maintain -15°C to -25°C.  Room-temp samples maintain at room temp.
Hard, soft, natural, and processed cheeses					
Bagged salad, fresh or processed fruits and vegetables					
Juices, nectars, and smoothies					
Raw beef					
Ready to eat beef (bulk is beef)					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
<b>SPONGE STICKS</b>					
Sponge Stick	Qualitative	72 hours	Sponge Stick in original pouch	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer's insert.	

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MICROBIOLOGICAL ANALYSIS					
Internal Method – BA16					
Staphylococcus aureus enumeration by Petri-film					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Canned Infant Formula	1000	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-8°C.
Hard, soft, natural, and processed cheeses					Frozen samples maintain -15°C to -25°C.
Bagged salad, fresh or processed fruits and vegetables					Room-temp samples maintain at room temp.
Kimchee					
Cured, salted, smoked fish					
Raw fin-fish and shellfish (fresh or frozen)					
Raw clams, oysters, mussels, and scallops (fresh or frozen)					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat fish (bulk is fish)					
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

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MICROBIOLOGICAL ANALYSIS					
Internal Method – BA17					
Enumeration of Clostridium perfringens in Foods by TSC Agar					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Cured, salted, smoked fish	100	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-8°C.
Raw pork, poultry, lamb, goat (not beef or fish)					Frozen samples maintain -15°C to -25°C.
Ready to eat beef (bulk is beef)					Room-temp samples maintain at room temp.
Ready to eat meat other than beef or fish (bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					
<b>WATER</b>					
Bottled water	1	cfu / mL	Expiration date	In original, sealed bottle	Store samples at room temperature.
Potable water			30 hours from collection	In sterile container	Store samples at < 10°C.

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA18					
Yeast and mold enumeration by Petri-film					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Cottage and Ricotta cheeses	10	cfu/g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-8°C.
Chilled yogurt, yogurt drinks, and frozen yogurt (flavored)					Frozen samples maintain -15°C to -25°C.
Sour cream					Room-temp samples maintain at room temp.

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MICROBIOLOGICAL ANALYSIS					
APHA Standard Methods for the Examination of Water and Wastewater 9215D/9222 (Modified) – BA24					
Enumeration of Total Coliforms by Milliflex PLUS Pump					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>WATER</b>					
Bottled water	0	cfu/100 mL	Expiration date	In original, sealed bottle	Store samples at room temperature.
Ice		cfu/250 mL		100mL CONUS source 250mL OCONUS source	Maintain ice as frozen.
Potable water	0	cfu/100 mL	30 hours from collection	in sterile container  Sample must be ≥ 100mL.	Store samples at < 10°C.
Non-potable water					
Dental water					

MICROBIOLOGICAL ANALYSIS					
APHA Standard Methods for the Examination of Water and Wastewater 9215 (Modified) – BA24					
Heterotrophic Plate Count (HPC) by TGE Agar					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>WATER</b>					
Bottled water	1	cfu/mL	Expiration date	In original, sealed bottle ≥ 100mL.	Store samples at room temperature.
Potable water			30 hours from collection	in sterile container Sample must be ≥ 100mL.	Store samples at < 10°C.
Non-potable water					
Ice			Expiration date	In original or sterile container ≥ 100mL.	Maintain ice as frozen.

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MICROBIOLOGICAL ANALYSIS					
APHA Standard Methods for the Examination of Water and Wastewater 9230C (Modified) – BA24					
Enumeration of Enterococcus spp. by Milliflex PLUS Pump					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>WATER</b>					
Bottled water	0	cfu/ 100 mL  cfu/ 250 mL	Expiration date	In original, sealed bottle	Store samples at room temperature
				100mL CONUS source	
				250mL OCONUS source	
Ice				In original or sterile container	Maintain ice as frozen.
				100mL CONUS source	
				250mL OCONUS source	
Potable water		cfu/ 100 mL	30 hours from collection	in sterile container ≥ 100mL.	Store samples at < 10°C.
Non-potable water					

MICROBIOLOGICAL ANALYSIS					
EPA 1603 (Modified) – BA24					
Enumeration of Escherichia coli by Milliflex PLUS Pump					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>WATER</b>					
Bottled water	0	cfu/ 100 mL  cfu/ 250 mL	Expiration date	In original, sealed bottle	Store samples at room temperature.
				100mL CONUS source	
				250mL OCONUS source	
Ice				In original or sterile container	Maintain ice as frozen.
				100mL CONUS source	
				250mL OCONUS source	
Potable water		cfu/ 100 mL	30 hours from collection	in sterile container ≥ 100mL.	Store samples at < 10°C.
Non-potable water					

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MICROBIOLOGICAL ANALYSIS					
APHA Standard Methods for the Examination of Water and Wastewater section 9213E (Modified) – BA24					
Enumeration of Pseudomonas aeruginosa by Milliflex PLUS Pump					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>WATER</b>					
Bottled water	0	cfu/ 100 mL  cfu/ 250 mL	Expiration date	In original, sealed bottle	Store samples at room temperature.
				100mL CONUS source  250mL OCONUS source	
Ice				In original or sterile container  100mL CONUS source  250mL OCONUS source	Maintain ice as frozen.
Potable water		cfu/ 100 mL	30 hours from collection	in sterile container ≥ 100mL.	Store samples at < 10°C.
Non-potable water					

MICROBIOLOGICAL ANALYSIS					
Internal Method – BA38					
Campylobacter jejuni enrichment and isolation by VIDAS					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Raw pork, poultry, lamb, goat (not beef or fish)	Non- detect	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-8°C
Ready to eat beef (bulk is beef)					Frozen samples maintain -15°C to -25°C
Ready to eat meat other than beef or fish (bulk is meat)					Room-temp samples maintain at room temp.
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					

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MICROBIOLOGICAL ANALYSIS					
AOAC RI 071401 – BA42					
Bacillus cereus enumeration by TEMPO					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Ready to eat beef (bulk is beef)	50	cfu/ g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-6°C.
Ready to eat meat other than beef or fish (bulk is meat)					Frozen samples maintain as frozen.
Tofu					Room-temp samples maintain at room temp.
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					

MICROBIOLOGICAL ANALYSIS					
SM 9215E – BA43					
Heterotrophic Plate Count (HPC) by Idexx SimPlate					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>WATER</b>					
Dental Water	2	MPN/ mL	30 hours from collection	In sterile container ≥ 100mL.	Store samples at < 10°C.  Chlorinated samples must be preserved with sodium thiosulfate. Bottles with preservative are available with kit orders.

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MICROBIOLOGICAL ANALYSIS					
Internal Method – BA46					
Salmonella spp. Enrichment and Isolation by VIDAS SPT Kit					
Matrices	LOQ	Hold Time	Container	Preservation	
<b>FOODS</b>					
Bagged salad, fresh or processed fruits and vegetables	Non-detect	In 25g	Item expiration date	Sealed original packaging or use a sterile container for prepared foods.  Sample must be ≥ 100g.	Refrigerated samples maintain 1-6°C.  Frozen samples maintain as frozen.  Room-temp samples maintain at room temp.
Raw beef					
Cured, salted, smoked fish					
Raw fin-fish and shellfish (fresh or frozen)					
Raw clams, oysters, mussels, and scallops (fresh or frozen)					
Raw pork, poultry, lamb, goat (not beef or fish)					
Ready to eat beef (bulk is beef)					
Ready to eat fish (bulk is fish)					
Ready to eat meat other than beef or fish ((bulk is meat)					
Tofu					
Ready to eat products with beef (bulk is not meat)					
Ready to cook products with beef (bulk is not meat)					
Ready to eat products without beef (bulk is not meat)					
Ready to cook products without beef (bulk is not meat)					
<b>SURFACE SWABS</b>					
Environmental Swab	Qualitative	72 hours	Swab tube with Hi-CAP Neutralizing Broth	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer's insert.	
<b>SPONGE STICKS</b>					
Sponge Stick	Qualitative	72 hours	Sponge Stick in original pouch	Should be stored at 1-4°C, unless otherwise specified. Refer to manufacturer's insert.	

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MOLECULAR ANALYSIS					
Internal Method - BA35					
Arthropod Vector-borne disease detection by RT rt-PCR					
Analytes	LOQ		Hold Time	Container	Preservation
<b>MOSQUITOES</b>					
Chikungunya virus	100	copies	N/A	5 mosquitoes pooled to create 1 sample	Vectors preserved in EtOH in an Eppendorf tube (either 1.5 or 2mL)
Dengue fever virus					
West Nile fever virus					
Zika virus					
<b>SAND FLIES</b>					
Sicilian Sand fly fever virus	100	copies	N/A	5 sand flies pooled to create 1 sample	Vectors preserved in EtOH in an Eppendorf tube (either 1.5 or 2mL)
<b>TICKS</b>					
Crimean Congo haemorrhagic fever virus	100	copies	N/A	1 tick = 1 sample	Vectors preserved in EtOH in an Eppendorf tube (either 1.5 or 2mL)
Tick-borne Encephalitis virus					

MOLECULAR ANALYSIS					
Internal Method - BA35					
Arthropod Vector-borne disease detection by rt-PCR					
Analytes	LOQ		Hold Time	Container	Preservation
<b>MOSQUITOES</b>					
Plasmodium spp. (Malaria)	100	copies	N/A	5 mosquitoes pooled to create 1 sample	Vectors preserved in EtOH in an Eppendorf tube (either 1.5 or 2mL)
<b>SAND FLIES</b>					
Leishmania spp.	100	copies	N/A	5 sand flies pooled to create 1 sample	Vectors preserved in EtOH in an Eppendorf tube (either 1.5 or 2mL)
<b>TICKS</b>					
Anaplasma phagocytophilum	100	copies	N/A	1 tick = 1 sample	Vectors preserved in EtOH in an Eppendorf tube (either 1.5 or 2mL)
Borrelia spp. (Lyme disease)					
Ehrlichia spp.					
Rickettsia spp.					

MOLECULAR ANALYSIS					
Internal Method - BA48					
Rabies detection by rt-PCR					
Analytes	LOQ		Hold Time	Container	Preservation
Rabies viral transcript in brain tissue	Qualitative		N/A	Submit whole head	Keep samples frozen until analysis.

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