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**LETTER OF INTEREST**

**LETTRE D'INTÉRÊT**

Comments - Commentaires

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Terrasses de la Chaudière 5e étage

10 Wellington Street,

10, rue Wellington,

Gatineau

Québec

K1A 0S5

<b>Title - Sujet</b> Chemical Residue Testing Food Product	
<b>Solicitation No. - N° de l'invitation</b> 39903-200178/C	<b>Date</b> 2020-06-19
<b>Client Reference No. - N° de référence du client</b> 39903-200178	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$\$ZH-151-38048
<b>File No. - N° de dossier</b> 151zh.39903-200178	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2020-08-31</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Cole, Heather	<b>Buyer Id - Id de l'acheteur</b> 151zh
<b>Telephone No. - N° de téléphone</b> (613) 858-8648 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> CANADIAN FOOD INSPECTION AGENCY 1400 MERIVALE ROAD OTTAWA Ontario K1A0Y9 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**Appendix 1 to ANNEX "A"**  
**Chemical Residues of Interest to CFIA**

Chemical Residue of Interest	Reference	Basis	Mandatory	Eligible Food Group <sup>a</sup>	Analytes	Required LOD <sup>b</sup> (mg/kg), unless otherwise specified	Required LOQ <sup>b</sup>	Confirmation Procedure <sup>c</sup>	Turn Around Time (days)	Reporting
Part A										
<b>Veterinary drugs</b>										
<b>Antimicrobials</b>										
Multi-class antibiotics	CFIA Saskatoon method: CVDR-M-3031.11	Target residues are extracted from tissue with water/ acetonitrile. Following centrifugation, the supernatant is defatted with hexane. The sample is centrifuged again, the hexane layer removed and the remaining extract evaporated to 0.5 mL under nitrogen. The extract is transferred into a microcentrifuge tube and made to 1.5 mL volume with water. The extract is microcentrifuged at high speed and an aliquot GHP filtered prior to analysis by LC-MS/MS.		Meat (muscle & kidney for all species except poultry; muscle and liver for poultry) Meat (Cooked & Processed Foods)	Anoxicillin	0.005	0.015	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications.  Banned substances are considered to have an MRL of '0' and ANY POSITIVES must be confirmed as per Banned Substances. See Tasks/Technical Specifications. (Chloramphenicol)  Note: The reference method indicates that the following compounds did not meet the criteria for quantitation: Ciprofloxacin (in poultry muscle and liver - all species); Clindamycin (in kidney, liver); Danofloxacin; Desethylene ciprofloxacin; Desfuroyl cefitofur cystine disulfide Dicloxacillin Doxycycline Enrofloxacin Erythromycin Florfenicol Gamithromycin Josamycin (in kidney and liver); Lincomycin (in liver); Neospiramycin; Novobiocin; Oleandomycin (in poultry muscle);	30	The "ANALYTE" is to be reported as "Multi-class Antibiotics Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg
					Ampicillin	0.005	0.015			
					Cefazolin	0.005	0.015			
					Cephalexin	0.005	0.015			
					Chloramphenicol	0.0002	0.001			
					Chlortetracycline	0.005	0.015			
					Ciprofloxacin	0.005	0.015			
					Clindamycin	0.005	0.015			
					Cloxacillin	0.005	0.015			
					Danofloxacin	0.005	0.015			
					Desacetyl Cephapirin	0.005	0.015			
					Desethylene-ciprofloxacin	0.005	0.015			
					Desfuroyl cefitofur cystine disulfide	0.005	0.05			
					Dicloxacillin	0.005	0.015			
					Doxycycline	0.005	0.015			
					Enrofloxacin	0.005	0.015			
					Erythromycin	0.005	0.05			
					Florfenicol	0.005	0.015			
					Gamithromycin	0.005	0.015			
					Josamycin	0.005	0.015			
	USDA: Screening and confirmation of animal drug residues by UHPLC-	Animal drug residues are extracted from tissue using dispersive SPE for both extraction and sample clean up. The extracted residues are examined using UHPLC-MS-MS using a triple			Lincomycin	0.005	0.015			

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	MS-MS (http://www.fsis.usda.gov/wps/wcm/connect/b9d45c8b-74d4-4e99-8eda-5453812eb237/CLG_MRM1.pdf?MOD=AJPERES)	quadrupole mass spectrometer under electrospray ionization (ESI) conditions. Analytes are identified by comparison against matrix matched standards.			Nafcillin	0.005	0.015	Sarafloxacin (in poultry muscle and liver – all species); Spiramycin; Tildipirosin; Tilmicosin (<0.015 mg/kg TE); Tulathromycin; Tylosin (in kidney and liver).		
					Neospiramycin	0.005	0.05			
					Norfloxacin	0.005	0.015			
					Novobiocin	0.005	0.015	If the Offeror validation has similar findings, the quantitation and confirmation must be completed using an alternate quantitative method.		
					Ofloxacin	0.005	0.015	All positives for florfenicol above the laboratory LOQ for the method must be confirmed using a method that determines florfenicol amine. Positive results are to be reported as florfenicol amine.		
					Oleandomycin	0.005	0.05			
					Oxacillin	0.005	0.015			
					Oxytetracycline	0.005	0.015			
					Penicillin G	0.005	0.015	Confirmations of all positives > 0.2 mg/kg for Doxycycline, Oxytetracycline, and Tetracycline and all positives for chlortetracycline > 0.05 mg/kg may be confirmed using the method submitted for TETRACYCLINES in this table, at the Offeror's discretion		
					Pirlimycin	0.005	0.015			
					Sarafloxacin	0.005	0.015			
					Spiramycin	0.005	0.05			
					Sulfabenzamide	0.005	0.015			
					Sulfacetamide	0.005	0.015			
					Sulfachloropyridazine	0.005	0.015			
					Sulfadiazine	0.005	0.015	All positives above the values listed for LOD of macrolides may be confirmed using the method submitted for MACROLIDES/ LINCOSAMIDES in this table at the discretion of the Offeror		
					Sulfadimethoxine	0.005	0.015			
					Sulfadoxine	0.005	0.015			
					Sulfathoxypyridazine	0.005	0.015			
					Sulfaguanidine	0.005	0.015			
					Sulfamerazine	0.005	0.015			
					Sulfamethazine	0.005	0.015			
					Sulfamethoxypyridazine	0.005	0.015			

Chemical Residue of Interest	Reference	Basis	Mandatory	Eligible Food Group <sup>a</sup>	Analytes	Required LOD <sup>b</sup> (mg/kg), unless otherwise specified	Required LOQ <sup>b</sup>	Confirmation Procedure <sup>c</sup>	Turn Around Time (days)	Reporting	
Multi-class antibiotics	Development and validation of a multiclass method for the analysis of antibiotic residues in eggs by liquid chromatography-tandem mass spectrometry; J Chromatogr A. 2011 Mar 18;1218(1):1443-51	Sample is mixed with diatomaceous earth containing EDTA, extracted into solvent and analyzed by LC-MS/MS		Egg Dairy	Sulfanilamide	0.005	0.015	All positives of tiamulin must be confirmed using a method that determines 8-alpha-hydroxymultin	30	The "ANALYTE" is to be reported as "Multi-class Antibiotics Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.	
					Sulfanilamran	0.005	0.015				
					Sulfathiazole	0.005	0.015				
					Tetracycline	0.005	0.015				
					Thiamphenicol	0.005	0.015				
					Tiamulin	0.005	0.015				
					Tildipirosin	0.05	0.1				
					Tilmicosin	0.005	0.05				
					Trimethoprim	0.005	0.015				
					Tulathromycin (parent)	0.005	0.015				
					Tylosin	0.005	0.05	All positives for Tulathromycin above the laboratory LOQ for the method must be confirmed using a method that determines CP-60.300. Confirmed results are to be reported as tulathromycin equivalents			
					Sulfadimethoxine	0.01	0.03				Confirmation using an acceptable MS technique is required See Tasks/Technical Specifications
					Sulfapyridine	0.01	0.03				
					Sulfamethoxazole	0.01	0.03				
					Sulfathiazole	0.01	0.03				
					Sulfamerazine	0.01	0.03				
					Sulfadiazine	0.01	0.03				
					Sulfamethazine	0.01	0.03				
					Sulfisoxazole	0.01	0.03				
					Sulfamethizole	0.01	0.03				
					Sulfadoxine	0.01	0.03				
					sulfamonomethoxine	0.01	0.03				
					sulfamethoxypyridazine	0.01	0.03				
					sulfachloropyridazine	0.01	0.03				
					Trimethoprim	0.01	0.03				
					Amoxicillin	0.01	0.03				
					Ampicillin	0.01	0.03				
					Penicillin G	0.01	0.03				
					Penicillin V	0.01	0.03				
					Oxacillin	0.01	0.03				
					Cloxacillin	0.01	0.03				
					Dicloxacillin	0.01	0.03				
					Sarafloxacin	0.01	0.03				
					Norfloxacin	0.01	0.03				
					Danofloxacin	0.01	0.03				
					Marbofloxacin	0.01	0.03				

Chemical Residue of Interest	Reference	Basis	Mandatory	Eligible Food Group <sup>a</sup>	Analytes	Required LOD <sup>b</sup> (mg/kg), unless otherwise specified	Required LOQ <sup>b</sup>	Confirmation Procedure <sup>c</sup>	Turn Around Time (days)	Reporting
Multi-class antibiotics	Multiclass Determination and Confirmation of Antibiotic Residues in Honey Using LC-MS/MS; J. Agric. Food Chem. 2008, 56, 1553–1559	Sample is dissolved in water, a portion taken off for streptomycin analysis. The remainder is cleaned up with SPE and eluted and evaporated, reconstituted and analyzed by LC-MS/MS	The SOP must demonstrate the work is completed under special lighting to reduce degradation	Honey	Difloxacin	0.01	0.03	Confirmation using an acceptable MS technique is required See Tasks/Technical Specifications  Banned substances are considered to have an MRL of '0' and ANY POSITIVES must be confirmed as per Banned Substances. See Tasks/Technical Specifications. (Chloramphenicol)	90	The "ANALYTE" is to be reported as "Multi-class Antibiotics Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
					Flumequine	0.01	0.03			
Bacitracin	CFIA Saskatoon Method: BAC-SP01	Sample is homogenized in acidic methanol-water and centrifuged. The eluate is cleaned up by SPE. Instrumental analysis for bacitracin A is by LC/MS detection.	The SOP must include the use of an acid and dithizone solution to prevent the chemical degradation of the bacitracin.	Dairy Egg Meat (liver, muscle)	Oxolinic acid	0.01	0.03	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Bacitracin A" and the numerical value as the "AMOUNT" in mg/kg
					Ciprofloxacin	0.01	0.03			
Carbadox	CFIA Saskatoon method: CVDR-M-3015.05	Samples are digested with formic acid to deactivate natural enzymes. Following overnight hydrolysis with protease the sample is acidified centrifuged and filtered	The SOP must include a step for digested with formic	Meat (liver & muscle)	Enrofloxacin	0.01	0.03	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	30	The "ANALYTE" is to be reported as "Carbadox Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a
					Oxytetracycline	0.01	0.03			
					Tetracycline	0.01	0.03			
					Chlortetracycline	0.01	0.03			
					Doxycycline	0.01	0.03			
					Tylosin	0.01	0.03			
					Spiramycin	0.01	0.03			
					Erythromycin	0.01	0.03			
					Josamycin	0.01	0.03			
					Tilmicosin	0.01	0.03			
					Lincomycin	0.01	0.03			
					Sulfathiazole	0.0003	0.001			
					Oxytetracycline	0.0006	0.002			
					Tetracycline	0.0003	0.001			
					chlortetracycline	0.0012	0.004			
					Doxycycline	0.002	0.006			
					Ciprofloxacin	0.0012	0.004			
					danofloxacin	0.0006	0.002			
					enrofloxacin	0.0006	0.002			
					sarafloxacin	0.0006	0.002			
					difloxacin	0.0006	0.002			
					Tylosin	0.0012	0.004			
					Desmecosin (Calculated as Tylosin)	0.0012	0.004			
					Erythromycin	0.0006	0.002			
					Lincomycin	0.0003	0.001			
					Streptomycin	0.003	0.01			
					Chloramphenicol	0.00003	0.0001			
					Fumagillin	0.002	0.006			
					Monensin	0.001	0.004			
					Bacitracin A	0.05	0.1			

Chemical Residue of Interest	Reference	Basis	Mandatory	Eligible Food Group <sup>a</sup>	Analytes	Required LOD <sup>b</sup> (mg/kg), unless otherwise specified		Confirmation Procedure <sup>c</sup>	Turn Around Time (days)	Reporting
							Required LOQ <sup>b</sup>			
Ceftiofur	CFIA Saskatoon method: CEF-SP07 CFIA Calgary Method: ACC-073v1.1	Sample is incubated in a solution where ceftiofur and metabolites convert to a common moiety. This is derivatized to DCA. Clean-up involves SPE. Instrumental analysis is by gradient LC/UV detection.	acid to deactivate natural enzymes and another for overnight enzymatic hydrolysis.  The SOP must include a step for incubation in a solution of dithioerythritol (DTE) in order to cleave ceftiofur and its metabolites to a common moiety and derivatized to DCA.	Dairy Egg Meat (muscle & kidney for all species except poultry; muscle only for poultry)	QCA MQCA	0.0005	0.0005	Specifications	90	positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed in mg/kg
						0.05	0.075	Confirmation using an LC/MS technique is required. See Tasks/Technical Specifications		
Fluoroquinolones	CFIA Saskatoon method: CVDR-M-3007	Samples are extracted with acidic solution and clean up with SPE. Drugs are eluted and concentrated. The extract is analyzed by LC/Fluorescence detection		Dairy Egg Honey Meat (liver & muscle)	Enrofloxacin Ciprofloxacin Sarafloxacin Danofloxacin Ofloxacin Norfloxacin Difloxacin Marbofloxacin Ofloroxacin Sparfloxacin Flumequine Oxolinic acid Nalidixic acid Pipemidic acid Enoxacin	0.002	0.010	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Fluoroquinolones Screen" and the "AMOUNT" is to be "0" for a negative and a "-1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed in mg/kg.
						0.002	0.01	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications		
Glycosides	http://www.fsis.usda.gov/wps/wcm/connect/c7d71fc0/7-6359-4d64-959b-1931596be19a/CLG-AMG2.pdf?MOD=AJPERES CFIA Calgary Method: ACC-078v1.1	Aminoglycoside residues are extracted from tissue using buffer containing trichloroacetic acid as a protein precipitant. The extract is neutralized and cleanup accomplished by passage through a weak cation exchange solid-phase extraction cartridge followed by elution with acidic methanol. The methanol extract is evaporated and reconstituted in aqueous ion-pair reagent. It is analyzed by ion-pair reversed-phase LC/MS.		Meat (liver & muscle)  Dairy Egg Honey Meat (kidney & muscle for all species except poultry; muscle only for poultry)	Desethyleneciprofloxacin Spectinomycin Hygromycin Streptomycin Dihydrostreptomycin Amikacin Kanamycin Apramycin Tobramycin Gentamicin Neomycin OPTIONAL: Kasugamycin	0.002	0.01	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Glycosides Screen" and the "AMOUNT" is to be "0" for a negative and a "-1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
						0.01	0.01	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications		

Chemical Residue of Interest	Reference	Basis	Mandatory	Eligible Food Group <sup>a</sup>	Analytes	Required LOD <sup>b</sup> (mg/kg), unless otherwise specified	Required LOQ <sup>b</sup>	Confirmation Procedure <sup>c</sup>	Turn Around Time (days)	Reporting
Macrolides / Lincosamides	CFIA Saskatoon method: CVDR-3029.04	Sample is made basic and extracted with ethyl acetate. Analytes are then partitioned into an acidic buffer and further cleaned up by extraction of the buffer solution with an organic solvent. The buffer is then made basic and analytes are re-extracted into ethyl acetate, evaporated to dryness, redissolved in mobile phase, and analyzed by HPLC/MS.		Dairy Egg Honey Meat (liver & muscle)	Clindamycin Erythromycin Josamycin Lincomycin Oleandomycin Pirlimycin Spiramycin Tyrosin Tilmicosin Desmicosin Neospiramycin CP-60,300 expressed as Tulathromycin equivalents	0.005	0.01	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications  All positives for Tulathromycin above the laboratory LOQ for the method must be confirmed using a method that determines CP-60,300. Confirmed results are to be reported as tulathromycin equivalents	90	The "ANALYTE" is to be reported as "Macrolides/Lincosamides Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
				Meat (liver & muscle); Optional for Dairy, Egg, Honey	Gamithromycin Tildipirosin Tyvalosin Optional for Dairy, Egg, honey	0.01	0.01			

Nitrofurans	CFIA Saskatoon method: CVDR-M-3014.13 CFIA Calgary method: ACC-070v1.4	Samples are pre-extracted with methanol and ethanol to remove interference. Side chains of protein bound metabolites are freed by acid hydrolysis followed by overnight derivatization. Extraction with ETOAc, evaporate, hexane wash of aqueous solution is followed by instrumental analysis by LC/MS/MS.	The SOP must include a step for acid hydrolysis and overnight incubation with 2-nitrobenzaldehyde in order to free the protein bound drug metabolites for derivatization, with the exception for the analysis in honey.	Dairy Egg Honey Meat (Liver & muscle)	AMOZ (Furaltadone Metabolite) AOZ (Furazolidone Metabolite) AHD (Nitrofurantoin Metabolite) SEM (Nitrofurazone metabolite) DNSAH (Nitrosol metabolite)	0.0005  0.0005	0.0005	Confirmation using an acceptable MS technique is required See Tasks/Technical Specifications  Banned substances are considered to have an MRL of '0' and ANY POSITIVES must be confirmed as per Banned Substances. See Tasks/Technical Specifications.	90	The "ANALYTE" is to be reported as "Nitrofurans Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Nitroimidazoles	JOURNAL OF AOAC INTERNATIONAL VOL. 90, NO. 3, 2007 J. Chromatogr. A 882 (2000) 89–98	The sample plus internal standard is extracted with ETOAc. The combined ETOAc layers are evaporated to dryness and partitioned between hexane:CCl4 and aqueous formic acid. Instrumental analysis is by HPLC/MS.	The SOP must include steps to demonstrate the solutions and extracts are protected from light, due to the light sensitive nature of the nitroimidazole s.	Dairy Egg Honey Meat (Liver & muscle)	Dimetridazole Hydroxy dimetridazole Metronidazole Ronidazole Tinidazole Ipnidazole Hydroxy metronidazole Hydroxy pronicidazole	0.001  0.003	0.001	Confirmation using an acceptable MS technique is required See Tasks/Technical Specifications  Banned substances are considered to have an MRL of '0' and ANY POSITIVES must be confirmed as per Banned Substances. See Tasks/Technical Specifications.	90	The "ANALYTE" is to be reported as "Nitroimidazoles Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Penicillins	http://www.isis.usda.gov/wps/wcm/connect/1c66a017-215e-4844-9fb1-29163b8a252/CLG_BLAC_03.pdf?MO D=AJPERS CFIA Calgary Method: ACC-063v2.	The internal standard is added to the sample followed by extraction with buffer and cleanup by SPE. Elute, evaporate, dissolve in ammonium acetate and analyze by LC/MS.		Dairy Egg Honey Meat (muscle and kidney for all species except poultry; muscle and liver for poultry)	Amoxicillin Ampicillin Penicillin G Oxacillin Cloxacillin Dicloxacillin Penicillin V Nafcillin	0.002  0.005	0.002	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	30	The "ANALYTE" is to be reported as "Penicillins Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg
Phenicolis	CFIA Saskatoon Method: CVDR-M-	Sample is extracted with ETOAc, dried and re-dissolved in water. Solution is washed,		Dairy Egg	Chloramphenicol Florfenicol	0.0002 0.001	0.0002	Confirmation using an acceptable MS	90	The "ANALYTE" is to be reported as "Phenicolis Screen"



3013.04 CFIA Calgary Method: ACC-062v2.3	cleaned with SPE cartridge, eluted with methanol, dried then re-dissolved in acidic water for instrumental analysis by HPLC/MS.		Honey	Thiamphenicol	0.001		<p>technique is required. See Tasks/Technical Specifications</p> <p>Banned substances are considered to have an MRL of '0' and ANY POSITIVES must be confirmed as per Banned Substances. See Tasks/Technical Specifications.</p> <p>(Chloramphenicol) Liver: all positives <math>\geq 0.1</math> mg/kg must be confirmed using a method that determines florfenicol amine. Muscle: all positives <math>\geq 0.05</math> mg/kg to be confirmed using a method for florfenicol amine.</p> <p>All positives for florfenicol above the laboratory LOQ for the method must be confirmed using a method that determines florfenicol amine. Positive results are to be reported as florfenicol amine</p>	<p>and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg</p> <p>In the event that florfenicol amine is tested and reported, the "florfenicol" as determined by the original method will not be reported, and the "florfenicol amine" will be reported in its place.</p>
Florfenicol Amine USDA, FSIS CLG-FLOR1.04 Determination and Confirmation of Florfenicol	Florfenicol and related metabolites in bovine and poultry liver and muscle and catfish muscle homogenate are converted to florfenicol amine (FA) salts by acid-catalyzed hydrolysis. The hydrolysate is partitioned with ethyl acetate to remove lipids and other neutral interferences, and then made strongly basic to convert the salts to free FA. This solution is then applied to a diatomaceous earth column and the FA is extracted from the absorbed liquid with ethyl acetate. The organic extract is evaporated to dryness and the residue dissolved in an aqueous buffer and analyzed	This SOP must provide for a step that converts all the residues of florfenicol and its metabolites to florfenicol amine.	Meat (liver & muscle)	Chloramphenicol Florfenicol Thiamphenicol Florfenicol amine	0.0002 0.001 0.001 0.5 0.03	1.0 0.7		
			Meat (liver) Meat (muscle)					

Sulfonamides	CFIA Calgary Method ACC- 056v4.1	Sample, containing protein (egg and dairy), are cleaned up by protein precipitation, extraction with acetonitrile followed by SPE clean-up. Samples high in sugars are extracted with dilute acid and allowed to stand overnight to free sulfa drugs from sugar complexes. Instrumental analysis is by LC/MSD.	The SOP for the honey food group must include a step for extraction with dilute acid and standing overnight in order to free sulfa drugs from sugar complexes.	Dairy Egg Honey	Sulfabenzamide, Sulfacetamide, Sulfachloropyridazine Sulfadiazine Sulfadimethoxine Sulfadoxine Sulfaethoxypyridazine, Sulfaguanidine Sulfamerazine Sulfamerter Sulfamethazine Sulfamethizole Sulfamethoxazole Sulfamethoxypyridazine Sulfamonomethoxine Sulfamoxole Sulfanilamide Sulfaphenazole Sulfapyridine Sulfaquinoxaline Sulfathiazole Sulfisoxazole Dapsone Ormetoprim Trimethoprim	See Appendix A of the reference method	See Appendix A of the reference method	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	60	The "ANALYTE" is to be reported as "Sulfa Screen" and the "AMOUNT" is to be "Q" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
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Sulfonamides-M	CFIA Saskatoon Method: SULLC-SP03	Meat samples are partitioned into buffer and extracted into methylene chloride and analysed by LC with fluorescence detection.		Meat (muscle and kidney for all species except poultry; muscle and liver for poultry)	Sulfacetamide Sulfachloropyridazine Sulfadiazine Sulfadimethoxine Sulfadoxine Sulfathoxypyridazine Sulfamerazine Sulfamethoxypyridazine Sulfapyridine Sulfaquinoxaline Sulfathiazole Dapsone Ornithoprim Sulfabenzamide Sulfamer Sulfamethizole Sulfamethoxazole Sulfamonomethoxine Sulfaphenazole Sulfisomidine Sulfisoxazole Trimethoprim <b>Optional:</b> Sulfaguanidine Sulfamoxole Sulfanilamide	0.01	0.05	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	60	The "ANALYTE" is to be reported as "Sulfa Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Tetracyclines	CFIA Saskatoon Method: CVDR-M-3011.15 CFIA Calgary Method: ACC-042	The sample is extracted with buffer and filtered. The filtrate is passed through a SPE column, which is rinsed with water prior to elution with methanolic oxalic acid. Honey samples are dissolved in an aqueous buffer. After filtration of the solution, the tetracyclines are extracted on a polymeric reversed-phase SPE column. The extracted tetracyclines are eluted with absolute methanol, concentrated, and reconstituted in water. The instrumental analysis is by HPLC/PDA detection or MS detection.		Dairy Egg Honey Meat (muscle and kidney for all species except poultry; muscle and liver for poultry)	Chlortetracycline Doxycycline Epi-Chlortetracycline Epi-Oxytetracycline Epi-Tetracycline Oxytetracycline Tetracycline	0.005	0.015	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	30	The "ANALYTE" is to be reported as "Tetracyclines Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Tiamulin	Journal of AOAC International 1993; 76(2):451-8.	Alkaline hydrolysis of tiamulin metabolites in liver to yield a major metabolite 8-alpha-hydroxy-mutlin and cleaned up and analysed	The SOP must include a step to convert all residues of tiamulin to the marker residue 8-alpha-hydroxy-mutlin	Meat (liver and muscle)	8-alpha-hydroxymutlin	0.01	0.03	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "8-alpha-hydroxymutlin" and the numerical value as the "AMOUNT", in mg/kg.

Virginiamycin	CFIA Saskatoon Method: CVDR-M-3026.03	The sample is homogenized in acetonitrile-methanol and centrifuged. The supernatant is passed through a SPE cartridge and eluted with buffer. The eluant is partitioned against chloroform and the aqueous upper layer is removed by aspiration. Chloroform is removed and residue is re-constituted in mobile phase solvent. Instrumental analysis is by LC/MS.	Dairy Egg Meat (muscle)	Virginiamycin M	0.005	0.015	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Virginiamycin M" and the numerical value as the "AMOUNT", in mg/kg.
<b>Antiparasitic</b>									
Benzimidazoles	FSIS Method BNZ-6	The sample is extracted with ETOAc. Solution is evaporated to dryness, washed with solvent to remove fat, before residue is dissolved in mobile phase for instrumental HPLC/UV detection	Dairy Egg Meat (liver, muscle)	Thiabendazole 5-hydroxythiabendazole 2-aminosulfone Albendazole Albendazole sulfoxide Albendazole sulphone Oxfendazole Mebendazole Fenbendazole Carbendazim Fenbendazole sulfone (Meat) Levamisole Albendazole Flubendazole Oxibendazole	0.005	0.005	Confirmation using an LC/MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Benzimidazoles Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed in mg/kg
Endectocides	CFIA Saskatoon method: CVDR-M-3005.10 CFIA Calgary Method: ACC-071v1.0	The sample is extracted with acetonitrile, centrifuged and supernatant is passed through alumina column. Further cleanup with SPE, derivatization precedes analysis by HPLC/Fluorescence detection.	Dairy Egg Meat (liver & muscle)	Abamectin Doramectin Ivermectin Epinomectin Moxidectin Emamectin Total	0.001	0.002	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Endectocides Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed in mg/kg.
Morantel/Pyrantel	<a href="http://www.isis.usda.gov/wps/wcm/connect/c4dc705e46-a779-4d53-bfdd-77fac591f6fe/Morantel.pdf?MOD=AJPERES">http://www.isis.usda.gov/wps/wcm/connect/c4dc705e46-a779-4d53-bfdd-77fac591f6fe/Morantel.pdf?MOD=AJPERES</a>	Tissues that may contain morantel or pyrantel and their metabolites are hydrolyzed. The breakdown product is extracted, derivatized re-extracted and analyzed by GC/ECD.	Dairy Egg Meat (liver and muscle)	N-methyl-1,3 propane diamine	0.5	0.5	Confirmation using a GC/MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "N-Methyl-1,3-propanediamine" and the numerical value as the "AMOUNT" in mg/kg
<b>COCCIDIOSTATS</b>									
		The SOP must include a hydrolysis step to convert morantel, pyrantel and all the metabolites of both to N-methyl-1,3 propane diamine. Confirmation using a GC technique, preferably MS, on all positives							

Coccidiostats	Development and validation of a multi-residue liquid chromatography–tandem mass spectrometry confirmatory method for eleven coccidiostats in eggs Analytica Chimica Acta 700(2011) 167-176	The sample was extracted with acetonitrile, defatted with hexane and cleaned-up on a silica SPE cartridge. The analytes were identified and quantified by liquid chromatography–tandem mass spectrometry (LC–MS/MS).	Egg Dairy Meat (liver and muscle)	Lasalocid Monensin Maduramicin Narasin Salinomycin Decoquinone Diclazuril Haloftuginone Nicarbazin Robenidine Amprolium, Clotidol Dinitolmide Bunquinolate Toltrazuril sulfone	0.002	0.01	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Coccidiostats Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Ionophores	CFIA Calgary method ACC-057v3.0	Sample is homogenized with water/methanol, sonicated and centrifuged. The supernatant is mixed with NaOH solution and extracted with hexane:toluene. Instrumental analysis is by LC/MS.	Honey	Lasalocid Monensin Narasin Salinomycin Also desired: Maduramicin	0.005	0.005	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Ionophores Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value in mg/kg
B-Agonists	CFIA Saskatoon method: CVDR-M-3033.02 USDA FSIS CLG-AGON1.05 <a href="http://www.fsis.usda.gov/mes/wcm/connec/c/c4a34027-7084-49c5-a16c-663b35ebab7e/CLG-AGON1.pdf?MOD=AJPERES">http://www.fsis.usda.gov/mes/wcm/connec/c/c4a34027-7084-49c5-a16c-663b35ebab7e/CLG-AGON1.pdf?MOD=AJPERES</a>	Free Residues of B-agonists are extracted with a mixture of acetonitrile and isopropanol. Salts are used to precipitate proteins and dehydrate the extract, which is evaporated, reconstituted, filtered and analysed by LC-MS/MS	Antinflammatory / Steroids / Hormones / Tranquillizer / Growth Promoter Dairy Egg Meat (liver and muscle)	SOP must include a step that does not allow the sample to evaporate to dryness  Brombuterol Clenbuterol Clenbuterol Clenbuterol Hydroxyclenbuterol Isoxsuprine Mabuterol Ritodrine Sabitamol Terbutaline Tulobuterol Ractopamine Free Zilpaterol Free <b>OPTIONAL:</b> Clenpropol Fenoterol Formoterol Mapenterol Metaproterenol	0.0005 0.0001 0.0001 0.001	0.002 0.0005 0.0005 0.003	All positive > 0.0025 mg/kg zilpaterol in bovine must be confirmed and quantitated using the method for free zilpaterol.  Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications  Banned substances are considered to have an MRL of '0' and ANY POSITIVES must be confirmed as per Banned Substances. See Tasks/Technical Specifications.	90	The "ANALYTE" is to be reported as "B-Agonists Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed in mg/kg





Pesticides / Environmental Pollutants									
ALAR	Pest Management Regulatory Agency Method: P-RE-057-97(1)-AMO  * Alternatively, the Offeror may opt to provide the method identified under "Polar Pesticides"	Daminozide is converted to UDMH, which is distilled from the sample. The UDMH is derivatized with salicylaldehyde and the resulting hydrazone is analyzed by GC/MS/SIM.	The SOP must include an alkaline hydrolysis step to convert daminozide and its metabolites to unsymmetrical dimethylhydrazine (UDMH). This step is mandatory only if submitting using a GC based method.	Fresh F&V Honey	Daminozide	0.01	0.04	Further confirmation of the analytical result is not required for this test.	The "ANALYTE" is to be reported as "Daminozide" and the numerical value as the "AMOUNT" in mg/kg
Amitraz	CFIA Calgary Method: CSP-006-v1.0	Amitraz and its metabolites are converted to 2,4-dimethylaniline, which is then extracted by iso-octane. The 2,4-dimethylaniline is derivatized with heptafluorobutyric anhydride and analyzed by GC/ECD detection	The SOP must include an acid hydrolysis step to convert amitraz and its metabolites to 2,4-dimethylaniline for quantitation as amitraz.	Fresh F&V Honey	Amitraz	0.01	0.1	See Tasks/Technical Specifications	The "ANALYTE" is to be reported as "Amitraz" and the numerical value as the "AMOUNT" in mg/kg
EBDC(DC(CS2))	Pesticide Management Regulatory Agency Method P-RE-053-95-EBDC	The sample is digested with HCl and the CS2 evolved is derivatized and quantitated by measurement of the absorbance at 435 nm. A calculation quantitates the CS2 as zineb. Note this method measures total dithiocarbamates and is not specific for EBDCs.	The SOP must use an HCl digestion to liberate CS2, followed by quantitation of the CS2 to determine zineb equivalence.	Fresh F&V Honey	CS <sub>2</sub> expressed as zineb equivalents	0.03 zineb equivalents	0.1 zineb equivalents	Not Required	The "ANALYTE" is to be reported as "Dithiocarbamate" and the numerical value as the "AMOUNT" in mg/kg
EBDC(EDA)	CFIA Calgary Method: SPR-002v2.9	The sample is hydrolyzed with HCl to liberate EDA, which is purified by ion exchange chromatography and derivatized for analysis by HPLC/Fluorescence detection.	The SOP must include a hydrolysis step to liberate ethylene diamine (EDA) prior to quantitation of the EDA.	Fresh F&V Honey	Ethylene Diamine	0.04	0.08	Not Required	The "ANALYTE" is to be reported as "EDA" and the numerical value as the "AMOUNT" in mg/kg



EDBC(ETU)	CFIA Calgary Method: SPR-008v1.2 or P-RE-060-97(1)-ETU The determination of ETU in Fruits and vegetables * Alternatively, the Offeror may opt to provide the method identified under "Polar Pesticides"	Sodium sulfite is added to the sample prior to the extraction with water. Further cleanup by extraction, partitioning, drying re-dissolving in preparation for HPLC/UV analysis	The SOP must provide for a step indicating the addition of sodium sulfite during the extraction to prevent loss of the ETU residue due to oxidation.	Fresh F&V Processed Foods Honey	Ethylene thiourea	0.02	0.05	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "ETU" and the numerical value as the "AMOUNT" in mg/kg
Carbamates	None provided			Dairy Egg Meat (liver & muscle)	3-OH Carbofuran Aldicarb Aldicarb Sulfone Aldicarb sulfonide Bendocarb Bufencarb Carbaryl Carbofuran Dioxacarb Isoprocarb Methiocarb Methiocarb Sulfonide Methomyl Oxamyl Promecarb Propoxur	0.005	0.01	Confirmation using an LC/MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Carbamates Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed in mg/kg
Pesticides-GC	CFIA Calgary Method: PMR-001v1.11 CFIA Calgary Method: PMR-005v1.7	A representative sample is blended with acetonitrile and sodium chloride (NaCl) and the layers are separated by centrifugation. An aliquot of the acetonitrile phase is evaporated for cleaned up on an Envi-Carb SPE cartridge which is connected in series with an aminopropyl sep-pak. The pesticides are eluted from the cleanup column with acetonitrile: toluene 3:1. The eluant is concentrated and solvent exchanged to hexane		Fresh F&V Processed Foods Honey	See Table 2A of Appendix 2 to Annex A	See Table 2A of Appendix 2 to Annex A	See Table 2A of Appendix 2 to Annex A	Confirmation using an acceptable MS technique, is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Pesticide Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Pesticides-LC	CFIA Calgary Method: PMR-016v1.0	A representative sample acidified acetonitrile, sodium acetate and magnesium sulphate are added. A portion is transferred to a centrifuge tube containing (PSA) and magnesium sulphate. An aliquot of which is evaporated, brought back to volume and analysed by LC-MS/MS.		Fresh F&V Processed Foods Honey	See Table 2B of Appendix 2 to Annex A	See Table 2B of Appendix 2 to Annex A	See Table 2B of Appendix 2 to Annex A	Confirmation using an acceptable MS technique, is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Pesticide Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.

Pesticides-DEM	USDA: Screening for pesticides by LC/MS/MS AND GC/MS/MS <a href="http://www.fs.is.usda.gov/wps/wcm/connect/499a8e9e-49bd-480a-b8b6-d1867f96c39d/CLG-PST5.pdf?MOD=AJPERES">http://www.fs.is.usda.gov/wps/wcm/connect/499a8e9e-49bd-480a-b8b6-d1867f96c39d/CLG-PST5.pdf?MOD=AJPERES</a>			Dairy Egg Meat (liver, muscle)	See Table 3 of Appendix 2 to Annex A	See Table 3 of Appendix 2 to Annex A	See Table 3 of Appendix 2 to Annex A	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Pesticide Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Synthetic Pyrethrins	CFIA Saskatoon Method: PYR-SP02	Sample is extracted with hexane, partitioned acetonitrile and hexane, sodium sulfate is added and back extraction with hexane leads to Florisil column cleanup. Eluant is dried, residue is dissolved in iso-octane for instrumental analysis by GC/ECD detection.		Dairy Egg Meat (Fat, muscle)	Cis-Permethrin Trans-Permethrin Cyfluthrin Cypermethrin Deltamethrin Fenvalerate Flucythrinate lambda-Cyhalothrin Tau-Fluvalinate	0.015	0.05	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Synthetic Pyrethrins Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Diquat/Paraquat	<a href="http://www.cfl-pesticides.eu/librairie/docs/sim/meth_040pe.pdf">http://www.cfl-pesticides.eu/librairie/docs/sim/meth_040pe.pdf</a> or EPA 549.2 * Alternatively, the Offeror may opt to provide the method identified under "Polar Pesticides"	A sample is extracted with acidified methanol, followed by thermal treatment and centrifugation. The extract is filtered and analysed by HPLC	The SOP must contain a thermal treatment of at least 15 minutes at 80 °C in a water bath	Fresh F&V Processed Foods	Diquat  Paraquat	0.01	0.02	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Quat Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Glyphosate	Canadian Grain Commission GS-2c: Determination of Glyphosate in Cereal and Oiled Crops Using Pre-Column Derivatization and LC/MS/MS Detection  * Alternatively, the Offeror may opt to provide the method identified under "Polar Pesticides"	Ground samples are extracted using a biphasic extraction with dichloromethane and water. The sample is centrifuged and 0.5mL of the aqueous layer is derivatized with FMOC-CI and subjected to further clean up with an Oasis HLB solid-phase extraction (SPE) cartridge. Analytes are eluted with methanol and the extract evaporated to dryness and reconstituted in HPLC water. Determinations are made by LC-ES/MS/MS in the negative ion mode using two precursor-product ion transitions. This method utilizes isotopic labeled surrogate standards to correct for method deficiencies in obtaining accurate results.		Fresh F&V Honey Meat (muscle, liver or kidney) Processed Foods	Glyphosate AMPA (aminomethyl phosphonic acid) Glufosinate  Optional: N-acetyl AMPA N-acetylgllyphosate N-acetyl-glufosinate	0.003 0.003 0.003  0.003 0.003 0.003	0.01 0.01 0.01  0.01 0.01 0.01	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Glyphosate Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed in mg/kg.



Chlorinated Phenols	CFIA Saskatoon method: PCP-SP08	Acidified sample is extracted with hexane/isopropanol. Chlorinated phenols are extracted with acidified methanol. Concentrated sulfuric acid wash removes impurities. Methylation precedes the analysis by GC/ECD.		Dairy Egg Meat (liver & muscle)		2,3,4,5-Tetrachlorophenol 2,3,4,6-Tetrachlorophenol 2,3,5,6-Tetrachlorophenol Pentachlorophenol	Optional				90	The "ANALYTE" is to be reported as "Chlorinated Phenols Screen" and the "AMOUNT" is to be "0" for a negative and a "-1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed in mg/kg
							Triclopyr	0.01	0.02			
							Picloram	0.01	0.02			
							Clpyralid	0.01	0.02			
							Bromoxynil	0.01	0.02			
							Dinoseb	0.01	0.03			
Metals	None provided.  Note: The provided detection limits are to be demonstrated in matrix and not instrument detection limits	Detection limits must be demonstrated in matrix for the following analytes to be considered having met the requirement. As, Be, Cd, Cr, Hg, Mo, Ni, Pb, Sb, Se, Sn,	Dairy Egg Fresh F&V Processed Foods Honey Meat (muscle)	Al, As, B, Be, Cd, Cr, Cu, Fe, Hg, Mg, Mo, Mn, Ni, Pb, Sb, Se, Sn, Ti Optional: Iodine (I)	As per Appendix 2 to Annex A, Table 1	See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as the individual metal (e.g. Cu) and the numerical value as the "AMOUNT" in mg/kg.				
Mycotoxin	CFIA Dartmouth method: SOM-DAR-CHE-041-06	A sample of liquid milk, powdered milk or cheese is thoroughly blended with 50 mL of DIW. Following centrifugation, the supernatant is cleaned up with SPE. Eluent is evaporated to 0.5 mL under nitrogen then reconstituted in DIW. Instrumental analysis is by LC/Fluorescence detection.	Dairy	Aflatoxin M1	0.01 µg/kg	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	30	The "ANALYTE" is to be reported as "Aflatoxin M1" and the numerical value as the "AMOUNT" in µg/kg.				
Part B Melamine		A sample is extracted with acidic acetonitrile followed by centrifugation. The extract is defatted with hexane and subjected to cation exchange SPE. The melamine is eluted with an ammonia methanol solution, evaporated and reconstituted in acetonitrile:water. The extract is analysed by HPLC-MS/MS.	The SOP must include the cation exchange step to remove interferences prior to the instrumental step.	Dairy	Melamine	0.10	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Melamine" and the numerical value as the "AMOUNT" in mg/kg.			

3-MCPD	CFIA Burnaby method BFCL-026 "Determination of 3-monochloropropane diol in Food and Food Ingredients using GC/MS"	Samples are enzyme digested, extracted and analyzed on ICP-MS		Processed Foods (Soy sauce, vegetable fats and oils, bread products)	3-monochloropropane-1,2-diol	0.01		Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "3-MCPD" and the numerical value as the "AMOUNT" in mg/kg.
Arsenic Species	CFIA Dartmouth method: SOM-CHE-053-04		The SOP must provide for a protease digestion for all samples other than juices. The SOP must include a control sample or certified reference material for each batch analysed. The resolution of Standard 2 peaks of AsC and AsB as per the reference method (0.1 ng/mL AsC; 0.05 ng/mL AsB) must have a resolution of 0.9 or greater	Egg, Fresh F&V Processed Foods Meat (muscle)	Arsenocholine (AsC as As) Arsenobetaine (AsB as As) Monomethylarsenic Acid (MMA as As) Cacodylic acid (DMA as As) Arsenious acid (As III) Arsenic acid (As V)	10 µg/kg 10 µg/kg 10 µg/kg 10 µg/kg 10 µg/kg 10 µg/kg		See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Arsenic Species Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in µg/kg, as arsenic equivalents.
BPA		Sample is de-proteinated, cleaned up by SPE and derivatized with acetic anhydride. The extract is run on GC/MS. Alternatively, a non-derivatized sample is analysed by LC-MS/MS. The points for this test will not be counted towards a minimum test requirement to qualify for the food group.	The SOP must include a step that conditions any glassware used in sample preparation to eliminate any environmental BPA that may be present.	Processed Foods (canned foods and infant formula)	Bisphenol A (BPA) Bisphenol S (BPS) Bisphenol F (BPF) Bisphenol A Diglycidyl ether (BADGE)	0.005	0.01	Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Bisphenol A Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Food colours (Water)	CFIA Longueuil LCAQ 111-04 : DETERMINATION OF WATER-SOLUBLE COLOURS BY HPLC-UV-VISIBLE (DAD) IN	Ion pair chromatography is performed by adding a counter ion to the mobile phase; thereby, forming a reversible complex with the water-soluble colours containing one or more functional groups, such as acidic or salt acidic moieties. The neutral complex thus formed is then separated by reverse-phase chromatography.	The submitted SOP must include an enzymatic digestion with alpha amylase for all samples containing one	Processed Foods (candy, beverages, etc)	Permitted Food Colours Tartrazine Amaranth Indigo Carmine Sunset Yellow FCF Allura Red Ponceau SX Fast Green FCF		0.025	See Tasks/Technical Specifications	90	The "ANALYTE" is to be reported as "Water Soluble colour Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive

	FOODSTUFFS		of the ingredients mentioned in the reference SOP (8.1) or if the information is not available.		Brilliant Blue FCF Erythrosin B Chlorophyllin Subsidiary dyes Ponceau 4R (New Cocine) Fast Red E Bordeaux R Erythrosin Yellowish (2,4,5-triiodo) 4,5-diodofluorescein Crocein Orange G Orange II 2,4,7-triiodofluorescein Non-permitted water-soluble dyes Orange GGN Azorubine (Carmoisine) Lissamine Green Quinoline Yellow1 Eosin Y Patent Blue VF Patent Blue Violet Calcium Chrysoidine G Rhodamine B								Is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.
Food Colours (Fat)	CFIA Longueuil; LCAQ-107-06; DETERMINATION OF FAT-SOLUBLE DYES IN FOODS BY HPLC	The fat-soluble dyes are extracted from the food samples by three (3) successive liquid-liquid extractions using tetrahydrofuran (THF). Following a manual Vortex mixing, sonication, Vortex mixing by plates, centrifugation and filtration, the liquid extract is concentrated by evaporation under a stream of nitrogen, re-dissolved in a minimum of THF, filtered and analyzed by HPLC with a diode-array detector	Processed Foods (beverages, sauces, etc)		Sudan I Sudan II Sudan III Sudan IV Sudan Red B Sudan Red 7B Sudan Red G Sudan Orange G Sudan Blue II Solvent Blue 59 Toluidine Red Para Red Methyl Yellow Metanil Yellow * Orange II * Rhodamine B * Sudan Black B Citrus Red 2 *Water-soluble dyes Ethyl carbamate	4 µg/kg	0.025	See Tasks/Technical Specifications	90		The "ANALYTE" is to be reported as "Fat Soluble colour Screen" and the "AMOUNT" is to be "0" for a negative and a "1" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in mg/kg.		
Ethyl carbamate	CFIA Calgary method: PMR-012		Processed Foods (alcoholic beverages)		Ethyl carbamate	4 µg/kg		Confirmation using an acceptable MS technique is required See Tasks/Technical Specifications	90		The "ANALYTE" is to be reported as "Ethyl carbamate" and the numerical value as the "AMOUNT" in µg/kg.		
Alternaria	Alternaria mycotoxins	Sample, with or without SPE cleanup, is diluted with water-acetonitrile acetic acid	Processed Foods (Juice,		Alternariol	1.0 µg/kg	5.0 µg/kg	Confirmation using an acceptable MS	90		The "ANALYTE" is to be reported as "Alternaria Screen"		

	CFIA Burnaby method : BFCL-048 http://www.ingentac onnect.com/content/ aocac/jaoac/2001/00 000084/000000006/ar 100022	solution. The clear supernatant after centrifugation is analysed by high performance liquid chromatography with tandem mass spectrometric detection (HPLCMS/MS).		wine, grains) Honey	Alternariol Monomethyl ether <b>Alternuene</b>  <b>L-tenuazonic acid</b>	 <b>1.0 µg/kg</b>  <b>5.0 µg/kg</b>	 <b>5.0 µg/kg</b>  <b>15.0 µg/kg</b>	technique is required. See Tasks/Technical Specifications		and the "AMOUNT" is to be "0" for a negative and a "+" for a positive for one or more of the analytes. In the event of a positive, the analyte(s) found to be positive is/are to be reported as a separate entry and the amount as the actual value confirmed, in µg/kg.
Ochratoxin A		The sample is extracted with acetonitrile- methanol-water. The extract is diluted with phosphate buffered saline (PBS) and cleaned up by immunoaffinity column (IAC). OTA is eluted with methanol and the eluate is evaporated to dryness. The residue is dissolved in the LC injection solution and analysed by high performance liquid chromatography (HPLC) with tandem mass spectrometric detection (MS/MS) or with fluorescence detection (FLD).	This SOP must include a clean-up step using an immunoaffinity column.	Processed Foods (cereals)	Ochratoxin A	1 µg/kg		Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	<b>90</b>	The "ANALYTE" is to be reported as "Ochratoxin A" and the numerical value as the "AMOUNT" in µg/kg.
Deoxynivalenol		Deoxynivalenol is extracted from a sample by blending with water and polyethylene glycol (PEG). The aqueous extract is cleaned up via an immunoaffinity column specific for DON. The eluate is analysed by high performance liquid chromatography (HPLC) with tandem mass spectrometric detection (MS/MS).	This SOP must include a clean-up step using an immunoaffinity column.	Processed Foods (cereals)	Deoxynivalenol	20 µg/kg		Confirmation using an acceptable MS technique is required. See Tasks/Technical Specifications	<b>90</b>	The "ANALYTE" is to be reported as "Deoxynivalenol" and the numerical value as the "AMOUNT" in µg/kg.
Polycyclic Aromatic Hydrocarbons (PAHs)	No method reference provided. Extension to additional matrices			Dairy (including cheese) Egg Honey Meat Fresh F&V Processed Foods (high fat) Processed Foods, alcoholic beverages)	Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene	0.15 µg/kg 0.24 µg/kg 0.24 µg/kg 0.36 µg/kg 0.30 µg/kg 0.30 µg/kg 0.20 µg/kg 0.40 µg/kg 0.20 µg/kg 0.20 µg/kg 0.20 µg/kg 0.16 µg/kg 0.50 µg/kg 0.16 µg/kg 0.20 µg/kg 0.16 µg/kg	Confirmation is not required since only high- resolution MS methods will be considered.	<b>90</b>	All Analytes are to be reported in (units) using the MS Excel template provided in µg/kg as illustrated in Appendix 3 to Annex A	

Dioxins PCB	None Provided			Dairy Egg Meat Processed Products	See Appendix 4c to Annex A	See Appendix 4a, 4b to Annex A	Confirmation is not required since only high- resolution MS methods will be considered.	90	All Analytes are to be reported in (units) using the MS Excel template provided in ng/kg as illustrated in Appendix 4c to Annex A. 1. Per Fat Basis: Meat and meat products, Raw milk and dairy products (including butter), Eggs and egg products 2. Per Wet Weight: Fish and fish products, Cereals, Fruits and vegetables including fresh herbs
Dioxin and Dioxin- Like Congeners	None Provided			Dairy Egg Meat Processed Products	See Appendix 4d to Annex A	See Appendix 4a, 4b to Annex A	Confirmation is not required since only high- resolution MS methods will be considered.	90	All Analytes are to be reported in (units) using the MS Excel template provided in ng/kg as illustrated in Appendix 4d to Annex A

#### Chemical Residues of Interest to CFIA

- a: SOP provided must clearly indicate the method has been validated in the specified food group
- b: The SOP provided must clearly indicate the stated level of detection/quantification , otherwise it will be rejected
- c: Any stated confirmation procedures must provide for a minimum of 4 identification points as described in the Official Journal of the European Communities, "COMMISSION DECISION of 12 August 2002 implementing Council Directive 96/23/EC concerning the performance of analytical methods and the interpretation of results" <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2002:221:0008:0036:EN:PDF>
- d: Pesticides that consist of two or more isomers shall be reported as the total, as opposed to the individual isomers, according the residue definitions provided by Health Canada at: <http://www.hc-sc.gc.ca/cps-spc/pest/pest/protect-proteger/food-nourriture/mri-definitions-lmr/index-eng.php> unless requested otherwise by the Technical Authority or designate.



## Appendix 2 to Annex A

**Table 1**

**Method Detection Limits required for Metals (mg/kg)**

<b>Residue</b>	<b>DL</b>
AL	0.02
AS	0.005
B	0.05
BE	0.05
CD	0.005
CR	0.02
CU	0.05
FE	0.5
HG	0.0001
I (optional)	0.05
MG	0.05
MO	0.05
MN	0.05
NI	0.02
PB	0.005
SB	0.05
SE	0.02
SN	0.2
TI	0.05
ZN	0.2

Appendix 2 to Annex A

**Table 2A**  
**Residues and Required LODs for Pesticides-GC**

No	Analyte	Fresh fruit & vegetable		Processed fruit & vegetable and Honey	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
1	Acephate	0.01	0.03	0.01	0.03
2	Acibenzolar-s-methyl	0.003	0.01	0.03	0.09
3	Acrinathrin	0.02	0.04	0.02	0.04
4	Alachlor	0.002	0.01	0.01	0.03
5	Aldrin	0.003	0.01	0.01	0.03
6	Allethrin-d-trans	0.003	0.01	0.01	0.04
7	Allidochlor	0.003	0.01	0.01	0.03
8	Ametryn	0.003	0.01	0.01	0.03
9	Aminocarb	0.01	0.03	0.01	0.04
10	Aramite	0.005	0.01	0.01	0.03
11	Aspon	0.006	0.01	0.01	0.03
12	Atrazine	0.003	0.01	0.01	0.03
13	Atrazine-desethyl	0.01	0.03	0.01	0.04
14	Azinphos-ethyl	0.007	0.01	0.05	0.08
15	Azinphos-methyl	0.006	0.02	0.05	0.08
16	Azoxystrobin	0.003	0.01	0.01	0.04
17	Benalaxyl	0.003	0.01	0.01	0.04
18	Bendiocarb	0.005	0.015	0.01	0.03
19	Benfluralin	0.01	0.03	0.01	0.04
20	Benodanil	0.004	0.01	0.005	0.03
21	Benzoylprop-ethyl	0.004	0.01	0.01	0.04
22	BHC Alpha	0.003	0.01	0.01	0.04
23	BHC beta	0.003	0.01	0.01	0.04
24	BifenoX	0.003	0.01	0.01	0.04
25	Bifenthrin	0.003	0.01	0.01	0.04
26	Biphenyl	0.003	0.01	0.01	0.04
27	Bromacil	0.005	0.03	0.01	0.04
28	Bromophos	0.003	0.01	0.03	0.06
29	Bromophos-ethyl	0.005	0.015	0.03	0.06
30	Bromopropylate	0.003	0.015	0.01	0.04
31	Bupirimate	0.003	0.015	0.01	0.04
32	Buprofezin	0.002	0.01	0.01	0.04
33	Butachlor	0.003	0.01	0.01	0.04
34	Butralin	0.003	0.02	0.01	0.04
35	Butylate	0.003	0.01	0.01	0.04
36	Captafol	0.008	0.05	0.05	0.08

37	Captan	0.004	0.02	0.05	0.08
38	Carbetamide	0.015	0.04	0.02	0.05
39	Carbofenthion	0.004	0.01	0.01	0.04
40	Carboxin	0.003	0.01	0.01	0.04
41	Chlorbenside	0.003	0.01	0.01	0.04
42	Chlorbromuron	0.01	0.05	0.01	0.04
43	Chlorbufam	0.003	0.02	0.03	0.06
44	Chlordane - Total	0.003	0.01	0.01	0.04
45	Chlordimeform	0.004	0.01	0.01	0.04
46	Chlorfenapyr	0.01	0.05	0.01	0.05
47	Chlorfenson	0.003	0.01	0.03	0.06
48	Chlorfenvinphos (e+z)	0.006	0.01	0.03	0.06
49	Chlorflurenol-methyl	0.005	0.01	0.01	0.04
50	Chloridazon	0.01	0.02	0.01	0.04
51	Chlormephos	0.004	0.01	0.03	0.06
52	Chlorobenzilate	0.005	0.01	0.01	0.04
53	Chloroneb	0.003	0.01	0.01	0.04
54	Chloropropylate	0.003	0.01	0.02	0.08
55	Chlorothalonil	0.01	0.04	0.01	0.04
56	Chlorpropham	0.003	0.01	0.01	0.04
57	Chlorpyrifos	0.003	0.01	0.01	0.04
58	Chlorpyrifos-methyl	0.003	0.01	0.01	0.04
59	Chlorthal-dimethyl (Dacthal)	0.003	0.01	0.01	0.04
60	Chlorthiamid	0.01	0.04	0.01	0.04
61	Chlorthion	0.005	0.03	0.01	0.04
62	Chlorthiophos	0.003	0.01	0.01	0.04
63	Chlozolate	0.003	0.01	0.01	0.04
64	Clomazone	0.003	0.01	0.01	0.04
65	Coumaphos	0.006	0.015	0.01	0.04
66	Crotoxyphos	0.006	0.02	0.01	0.04
67	Crufomate	0.006	0.015	0.01	0.04
68	Cyanazine	0.017	0.01	0.01	0.04
69	Cyanophos	0.002	0.02	0.01	0.04
70	Cycloate	0.005	0.02	0.03	0.06
71	Cyfluthrin (I,II,III,IV)	0.008	0.02	0.06	0.18
72	Cyhalothrin-lambda	0.003	0.01	0.01	0.04
73	Cypermethrin	0.005	0.02	0.01	0.04
74	Cyprazine	0.003	0.01	0.01	0.04
75	Cyproconazole	0.006	0.02	0.01	0.04
76	Cyprodinil	0.003	0.01	0.01	0.04
77	Deltamethrin	0.005	0.02	0.01	0.04
78	Demeton-O	0.005	0.02	0.01	0.04
79	Demeton-S	0.005	0.02	0.01	0.04

80	Demeton-S-methyl	0.005	0.02	0.01	0.04
81	Desmetryn	0.005	0.02	0.01	0.04
82	Di-allate	0.003	0.01	0.01	0.04
83	Diazinon	0.003	0.01	0.01	0.04
84	Diazinon o analogue	0.003	0.01	0.01	0.04
85	Dichlobenil	0.003	0.01	0.01	0.04
86	Dichlofenthion	0.01	0.03	0.01	0.03
87	Dichlofluanid	0.007	0.03	0.01	0.04
88	Dichlormid	0.004	0.02	0.01	0.04
89	Dichlorvos	0.004	0.02	0.01	0.04
90	Diclobutrazole	0.003	0.01	0.01	0.04
91	Diclofop-methyl	0.002	0.01	0.01	0.04
92	Dicloran	0.01	0.03	0.01	0.03
93	Dicofol	0.007	0.02	0.01	0.04
94	Dicrotophos	0.007	0.02	0.01	0.04
95	Dieldrin	0.007	0.02	0.01	0.04
96	Diethatyl-ethyl	0.002	0.01	0.01	0.04
97	Dimethachlor	0.002	0.01	0.01	0.04
98	Dimethoate	0.003	0.02	0.01	0.04
99	Dinitramine	0.003	0.015	0.01	0.04
100	Dioxathion	0.003	0.04	0.01	0.04
101	Diphenamid	0.008	0.01	0.01	0.04
102	Diphenylamine	0.004	0.01	0.01	0.04
103	Disulfoton	0.003	0.01	0.01	0.04
104	Disulfoton sulfone	0.003	0.01	0.01	0.04
105	Edifenphos	0.003	0.01	0.01	0.04
106	Endosulfan-alpha	0.004	0.02	0.01	0.04
107	Endosulfan-beta	0.004	0.02	0.01	0.04
108	Endosulfan sulphate	0.003	0.01	0.01	0.04
109	Endrin	0.004	0.01	0.01	0.04
110	EPN	0.007	0.02	0.01	0.04
111	EPTC	0.006	0.02	0.01	0.04
112	Erbon	0.003	0.02	0.01	0.04
113	Esfenvalerate	0.003	0.01	0.01	0.04
114	Etaconazole	0.003	0.01	0.01	0.04
115	Ethalfuralin	0.004	0.02	0.01	0.04
116	Ethion	0.003	0.01	0.01	0.04
117	Ethofumesate	0.003	0.01	0.01	0.04
118	Ethoprophos	0.01	0.01	0.01	0.04
119	Ethylan	0.003	0.01	0.01	0.04
120	Etridiazole	0.003	0.01	0.01	0.04
121	Etrimfos	0.003	0.01	0.01	0.04
122	Fenamiphos	0.006	0.02	0.01	0.04

123	Fenamiphos sulfone	0.006	0.02	0.01	0.04
124	Fenamiphos sulfoxide	0.006	0.02	0.01	0.04
125	Fenarimol	0.004	0.015	0.01	0.04
126	Fenbuconazole	0.003	0.01	0.01	0.04
127	Fenchlorophos (Ronnel)	0.003	0.01	0.01	0.04
128	Fenfuram	0.003	0.01	0.01	0.04
129	Fenitrothion	0.003	0.01	0.01	0.04
130	Fenpropathrin	0.003	0.01	0.01	0.04
131	Fenpropimorph	0.01	0.01	0.01	0.04
132	Fenson	0.003	0.01	0.01	0.04
133	Fensulfothion	0.005	0.02	0.01	0.04
134	Fenthion	0.006	0.02	0.01	0.04
135	Fenvalerate	0.005	0.02	0.01	0.04
136	Fipronil	0.02	0.06	0.02	0.06
137	Fipronil Sulfone	0.02	0.06	0.02	0.06
138	Flamprop-isopropyl	0.003	0.01	0.01	0.04
139	Flamprop-methyl	0.006	0.02	0.01	0.04
140	Fluchloralin	0.003	0.01	0.01	0.04
141	Fludioxonil	0.003	0.01	0.01	0.04
142	Flufenacet	0.02	0.06	0.02	0.06
143	Flumetralin	0.003	0.01	0.01	0.04
144	Fluorochloridone	0.003	0.01	0.01	0.04
145	Fluorodifen	0.008	0.02	0.01	0.04
146	Flusilazole	0.003	0.01	0.01	0.04
147	Fluvalinate	0.007	0.02	0.01	0.04
148	Folpet	0.02	0.04	0.01	0.04
149	Fonofos	0.003	0.01	0.01	0.04
150	HCH-delta (delta-lindane)	0.01	0.03	0.01	0.04
151	Heptachlor	0.003	0.01	0.01	0.04
152	Heptachlor epoxide endo	0.007	0.02	0.01	0.04
153	Heptenophos	0.007	0.02	0.01	0.04
154	Hexachlorobenzene	0.007	0.02	0.01	0.04
155	Hexaconazole	0.003	0.01	0.01	0.04
156	Hexazinone	0.003	0.01	0.01	0.04
157	Hexythiazox	0.02	0.06		
158	Imazalil	0.015	0.04	0.01	0.04
159	Iodofenphos	0.003	0.01	0.01	0.04
160	Iprobenfos	0.003	0.01	0.01	0.04
161	Iprodione	0.009	0.03	0.01	0.04
162	Isazophos	0.003	0.01	0.01	0.04
163	Isofenphos	0.003	0.01	0.01	0.04
164	Isopropalin	0.003	0.01	0.01	0.04
165	Isoprothiolane	0.004	0.01	0.01	0.04

166	Kresoxim-methyl	0.003	0.01	0.01	0.04
167	Leptophos	0.003	0.01	0.01	0.04
168	Lindane (gamma-BHC)	0.003	0.01	0.01	0.04
169	Linuron	0.01	0.04	0.01	0.04
170	Malaoxon	0.003	0.01	0.01	0.04
171	Malathion	0.003	0.01	0.01	0.04
172	Mecarbam	0.003	0.01	0.01	0.04
173	Metalaxyl	0.003	0.01	0.01	0.04
174	Metazachlor	0.003	0.01	0.01	0.04
175	Methamidophos	0.005	0.02	0.01	0.04
176	Methidathion	0.01	0.015	0.01	0.04
177	Methoprotryne	0.004	0.01	0.01	0.04
178	Methoxychlor	0.004	0.01	0.01	0.04
179	Methyl - trithion	0.005	0.015	0.01	0.04
180	Metobromuron	0.004	0.02	0.01	0.04
181	Metolachlor	0.003	0.01	0.01	0.04
182	Metribuzin	0.006	0.02	0.01	0.04
183	Mevinphos-cis	0.003	0.01	0.01	0.04
184	Mevinphos-trans	0.006	0.02	0.01	0.04
185	Mexacarbate	0.01	0.01	0.01	0.04
186	Mirex	0.003	0.01	0.01	0.04
187	Monocrotophos	0.01	0.02	0.01	0.04
188	Monolinuron	0.01	0.04	0.01	0.04
189	Myclobutanil	0.003	0.01	0.01	0.04
190	Naled	0.004	0.01	0.01	0.04
191	Nitralin	0.003	0.01	0.01	0.04
192	Nitrapyrin	0.003	0.01	0.01	0.04
193	Nitrofen	0.003	0.01	0.01	0.04
194	Nitrothal-isopropyl	0.003	0.01	0.01	0.04
195	Norflurazon	0.003	0.01	0.01	0.04
196	Nuarimol	0.003	0.01	0.01	0.04
197	o,p'-DDD (o,p'-TDE)	0.003	0.01	0.01	0.04
198	o,p'-DDT	0.003	0.01	0.01	0.04
199	Octhilinone	0.007	0.02	0.01	0.04
200	Omethoate	0.01	0.04	0.01	0.04
201	Ortho-phenylphenol	0.003	0.01	0.01	0.04
202	Oxadiazon	0.004	0.015	0.01	0.04
203	Oxadixyl	0.01	0.015	0.01	0.04
204	Oxycarboxin	0.02	0.04	0.01	0.04
205	Oxychlordan	0.025	0.04	0.01	0.04
206	Oxyfluorfen	0.003	0.01	0.01	0.04
207	p,p'-DDD (p,p'-TDE)	0.003	0.01	0.01	0.04
208	p,p'-DDE	0.003	0.01	0.01	0.04

209	p,p'-DDT	0.003	0.01	0.01	0.04
210	Paraoxon	0.015	0.04	0.01	0.04
211	Parathion	0.01	0.01	0.01	0.04
212	Parathion-methyl	0.01	0.01	0.01	0.04
213	Pebulate	0.003	0.01	0.01	0.04
214	Penconazole	0.003	0.01	0.01	0.04
215	Pendimethalin	0.003	0.01	0.01	0.04
216	Pentachloroaniline	0.01	0.03	0.01	0.04
217	Permethrin	0.003	0.01	0.01	0.04
218	Phenthoate	0.003	0.01	0.01	0.04
219	Phorate	0.003	0.01	0.01	0.04
220	Phorate sulfone	0.003	0.01	0.01	0.04
221	Phosalone	0.003	0.01	0.01	0.04
222	Phosmet	0.003	0.01	0.01	0.04
223	Phosphamidon	0.003	0.01	0.01	0.04
224	Piperonyl butoxide	0.003	0.01	0.01	0.04
225	Pirimicarb	0.003	0.01	0.01	0.04
226	Pirimiphos-ethyl	0.003	0.01	0.01	0.04
227	Pirimiphos-methyl	0.003	0.01	0.01	0.04
228	Prochloraz	0.005	0.015	0.01	0.04
229	Procymidone	0.003	0.01	0.01	0.04
230	Profenofos	0.003	0.01	0.01	0.04
231	Profluralin	0.003	0.01	0.01	0.04
232	Promecarb	0.01	0.03	0.01	0.03
233	Prometon	0.003	0.01	0.01	0.04
234	Prometryne	0.003	0.01	0.01	0.04
235	Pronamide	0.003	0.01	0.01	0.04
236	Propachlor	0.003	0.02	0.01	0.04
237	Propanil	0.003	0.01	0.01	0.04
238	Propargite	0.008	0.02	0.01	0.04
239	Propazine	0.003	0.01	0.01	0.04
240	Propetamphos	0.007	0.03	0.01	0.04
241	Propham	0.006	0.02	0.01	0.04
242	Propiconazole	0.007	0.02	0.01	0.04
243	Prothiophos	0.003	0.01	0.01	0.04
244	Pyracarbolid	0.003	0.01	0.01	0.04
245	Pyrazophos	0.003	0.01	0.01	0.04
246	Pyridaben	0.003	0.01	0.01	0.04
247	Quinomethionate	0.02	0.06	0.01	0.04
248	Quintozene	0.003	0.01	0.01	0.04
249	Secbumeton	0.003	0.01	0.01	0.04
250	Simazine	0.003	0.01	0.01	0.04
251	Simetryn	0.003	0.01	0.01	0.04

252	Sulfallate	0.003	0.01	0.01	0.04
253	Sulfotep	0.003	0.01	0.01	0.04
254	Sulprophos	0.003	0.01	0.01	0.04
255	TCMTB	0.006	0.02	0.01	0.04
256	Tebuconazole	0.003	0.01	0.01	0.04
257	Tecnazene	0.003	0.01	0.01	0.04
258	Terbacil	0.003	0.01	0.01	0.04
259	Terbufos	0.008	0.02	0.01	0.04
260	Terbumeton	0.003	0.01	0.01	0.04
261	Terbutryne	0.003	0.01	0.01	0.04
262	Terbutylazine	0.003	0.01	0.01	0.04
263	Tetrachlorvinphos	0.003	0.01	0.01	0.04
264	Tetradifon	0.008	0.02	0.01	0.04
265	Tetraiodoethylene	0.027	0.1	0.01	0.04
266	Tetramethrin	0.003	0.01	0.01	0.04
267	Tetrasul	0.006	0.02	0.01	0.04
268	Thiobencarb	0.003	0.01	0.01	0.04
269	Tolclofos-methyl	0.003	0.01	0.01	0.04
270	Tolyfluanid	0.01	0.01	0.01	0.04
271	Triadimefon	0.003	0.01	0.01	0.04
272	Triadimenol	0.005	0.015	0.01	0.04
273	Tri-allate	0.003	0.01	0.01	0.04
274	Triazophos	0.005	0.015	0.01	0.04
275	Tribufos	0.003	0.01	0.01	0.04
276	Tricyclazole	0.01	0.02	0.01	0.04
277	Trifloxystrobin	0.003	0.01	0.01	0.04
278	Triflumizole	0.01	0.03	0.01	0.04
279	Trifluralin	0.003	0.01	0.01	0.04
280	Vernolate	0.006	0.02	0.01	0.04
281	Vinclozolin	0.003	0.01	0.01	0.04

**Table 2B**  
**Residues and Required LODs for Pesticides-LC**

No	Analyte	Fresh fruit & vegetable		Processed fruit & vegetable and Honey	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)



No	Analyte	Fresh fruit & vegetable		Processed fruit & vegetable and Honey	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
1	3-hydroxyCarbofuran	0.01	0.03	0.01	0.04
2	ABAMECTIN	0.01	0.01	0.01	0.01
3	Acetochlor	0.01	0.03	0.01	0.04
4	Aclonifen	0.01	0.03	0.01	0.04
5	Aldicarb	0.01	0.03	0.01	0.04
6	Aldicarb Sulfone	0.01	0.03	0.01	0.04
7	Aldicarb sulfoxide	0.01	0.03	0.01	0.04
8	Anilofos	0.01	0.03	0.01	0.04
9	Azaconazole	0.01	0.03	0.01	0.04
10	Benoxacor	0.01	0.03	0.05	0.1
11	Bitertanol	0.01	0.03	0.01	0.04
12	Bromuconazole	0.01	0.03	0.01	0.04
13	Butafenacil	0.01	0.03	0.01	0.04
14	Butocarboxim	0.01	0.03	0.01	0.04
15	Butocarboxim sulfoxide	0.01	0.03	0.01	0.04
16	Cadusafos	0.01	0.03	0.01	0.04
17	CARBARYL	0.01	0.03	0.01	0.04
18	Carbendazim	0.01	0.03	0.01	0.04
19	Carbetamide	0.015	0.04	0.02	0.05
20	Carbofuran	0.01	0.03	0.01	0.04
21	Carbosulfan	0.01	0.03	0.01	0.04
22	Carfentrazone-ethyl	0.01	0.03	0.01	0.04
23	Chlorantraniliprole	0.01	0.03	0.01	0.04
24	Chlorbromuron	0.01	0.05	0.01	0.04
25	Chloridazon	0.01	0.02	0.01	0.04
26	Chlorimuron-ethyl	0.01	0.03	0.01	0.04
27	Chloroxuron	0.01	0.03	0.01	0.04
28	Chlorpropham	0.003	0.01	0.01	0.04
29	Chlortoluron	0.01	0.03	0.01	0.04
30	Clodinafop-propargyl	0.01	0.03	0.01	0.04
31	Cloquintocet-mexyl	0.01	0.03	0.01	0.04
32	Clofentezine	0.005	0.01	0.005	0.01
33	Clothianidin	0.01	0.03	0.01	0.04
34	Cyanofenphos	0.01	0.03	0.01	0.04
35	Cyazofamid	0.005	0.01	0.005	0.01
36	Cycloxydim	0.01	0.03	0.01	0.04
37	Cycluron	0.01	0.03	0.01	0.04
38	Cyromazine	0.01	0.03	0.01	0.04
39	Demeton-O	0.005	0.02	0.01	0.04
40	Demeton-S	0.005	0.02	0.01	0.04

No	Analyte	Fresh fruit & vegetable		Processed fruit & vegetable and Honey	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
41	Demeton-S-methyl	0.005	0.02	0.01	0.04
42	Demeton-s-methyl sulfone	0.01	0.03	0.01	0.04
43	Demeton-s-methyl sulfoxide	0.01	0.03	0.01	0.04
44	Desmedipham	0.01	0.03	0.01	0.04
45	Dialofos	0.01	0.015	0.01	0.04
46	Diclocymet	0.01	0.03	0.01	0.04
47	Diethofencarb	0.01	0.03	0.01	0.04
48	Difenoconazole	0.01	0.03	0.01	0.04
49	Dimethametryn	0.01	0.03	0.01	0.04
50	Dimethomorph	0.01	0.03	0.01	0.04
51	Dimetilan	0.01	0.03	0.01	0.04
52	Dimoxystrobin	0.01	0.03	0.01	0.04
53	Diniconazole	0.01	0.03	0.01	0.04
54	Dinotefuran	0.005	0.01	0.005	0.01
55	Dioxacarb	0.01	0.03	0.01	0.04
56	Dioxathion	0.003	0.04	0.01	0.04
57	Dipropetryn	0.01	0.03	0.01	0.04
58	Diuron	0.01	0.01	0.01	0.04
59	Dodemorph	0.01	0.01	0.01	0.04
60	Eamectin Total	0.01	0.01	0.01	0.04
61	Epoxiconazole	0.01	0.01	0.01	0.04
62	Ethiofencarb	0.01	0.01	0.01	0.04
63	Ethiofencarb sulfone	0.01	0.01	0.01	0.04
64	Ethiofencarb sulfoxide	0.01	0.01	0.01	0.04
65	Ethiprole	0.01	0.01	0.01	0.04
66	Ethirimol	0.01	0.01	0.01	0.04
67	Ethoprop	0.01	0.01	0.01	0.04
68	Etofenprox	0.01	0.01	0.01	0.04
69	Etoxazole	0.01	0.01	0.01	0.04
70	Famoxadone	0.025	0.1	0.025	0.1
71	Fenamidone	0.01	0.01	0.01	0.04
72	Fenazaquin	0.01	0.01	0.01	0.04
73	Fenhexamid	0.01	0.01	0.01	0.04
74	Fenoxanil	0.01	0.01	0.01	0.04
75	Fenoxycarb	0.005	0.01	0.005	0.01
76	Fenpropidin	0.01	0.01	0.01	0.04
77	Fenpropimorph	0.01	0.01	0.01	0.04
78	Fenpyroximate	0.01	0.01	0.01	0.04
79	Fentrazamide	0.01	0.01	0.01	0.04
80	Fluazifop-butyl	0.01	0.01	0.01	0.04

No	Analyte	Fresh fruit & vegetable		Processed fruit & vegetable and Honey	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
81	Flubendiamide	0.01	0.01	0.01	0.01
82	Flucarbazone-sodium	0.01	0.01	0.01	0.04
83	Fluoxastrobin	0.01	0.01	0.01	0.04
84	Fluroxypyr	0.05	0.1	0.05	0.1
85	Flutolanil	0.01	0.01	0.01	0.04
86	Flutriafol	0.01	0.01	0.01	0.04
87	Forchlorfenuron	0.01	0.01	0.01	0.04
88	Formetanate	0.01	0.01	0.01	0.04
89	Fosthiazate	0.01	0.01	0.01	0.04
90	Fuberidazole	0.01	0.01	0.01	0.04
91	Furathiocarb	0.01	0.01	0.01	0.04
92	Griseofulvin	0.01	0.01	0.01	0.04
93	Haloxypop	0.01	0.01	0.01	0.04
94	Imazamethabenz-methyl	0.01	0.01	0.01	0.04
95	Imidacloprid	0.01	0.01	0.01	0.04
96	Indoxacarb	0.01	0.01	0.01	0.04
97	Ipconazole	0.01	0.01	0.01	0.04
98	Iprovalicarb	0.01	0.01	0.01	0.04
99	Isocarbamide	0.01	0.01	0.01	0.04
100	Isoprocarb	0.01	0.01	0.01	0.04
101	Isoproturon	0.005	0.01	0.005	0.01
102	Isoxadifen-ethyl	0.01	0.01	0.01	0.04
103	Isoxathion	0.01	0.01	0.01	0.04
104	Linuron	0.01	0.04	0.01	0.04
105	Mandipropamid	0.01	0.01	0.01	0.04
106	Mepanipyrim	0.01	0.01	0.01	0.04
107	Mephosfolan	0.01	0.01	0.01	0.04
108	Methabenzthiazuron	0.01	0.01	0.01	0.04
109	Methidathion	0.01	0.015	0.01	0.04
110	Methiocarb	0.01	0.01	0.01	0.04
111	Methiocarb sulfone	0.01	0.01	0.01	0.04
112	Methiocarb Sulfoxide	0.01	0.01	0.01	0.04
113	Methomyl	0.01	0.01	0.01	0.04
114	Methoxyfenozide	0.01	0.01	0.01	0.04
115	Metolcarb	0.01	0.01	0.01	0.04
116	Metosulam	0.01	0.01	0.01	0.04
117	Metoxuron	0.01	0.01	0.01	0.04
118	Mexacarbate	0.01	0.01	0.01	0.04
119	Molinate	0.01	0.01	0.01	0.04
120	Monocrotophos	0.01	0.02	0.01	0.04

No	Analyte	Fresh fruit & vegetable		Processed fruit & vegetable and Honey	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
121	Napropamide	0.01	0.01	0.01	0.04
122	Naptalam	0.01	0.01	0.01	0.04
123	Neburon	0.01	0.01	0.01	0.04
124	Nicotine	0.025	0.1	0.025	0.1
125	Norflurazon	0.003	0.01	0.01	0.04
126	Novaluron	0.005	0.01	0.005	0.01
127	Ofurace	0.01	0.01	0.01	0.04
128	Oxadixyl	0.01	0.015	0.01	0.04
129	Oxamyl	0.01	0.01	0.01	0.04
130	Oxamyl oxime	0.01	0.01	0.01	0.04
131	Oxycarboxin	0.02	0.04	0.01	0.04
132	Paclobutrazol	0.01	0.01	0.01	0.04
133	Pencycuron	0.01	0.01	0.01	0.04
134	Penoxsulam	0.01	0.01	0.01	0.04
135	Picolinafen	0.01	0.01	0.01	0.04
136	Picoxystrobin	0.01	0.01	0.01	0.04
137	Piperophos	0.01	0.01	0.01	0.04
138	Pretilachlor	0.01	0.01	0.01	0.04
139	Primisulfuron-methyl	0.01	0.01	0.01	0.04
140	Prodiamine	0.01	0.01	0.01	0.04
141	Propamocarb	0.01	0.01	0.01	0.04
142	Propoxur	0.01	0.01	0.01	0.04
143	Pymetrozine	0.01	0.01	0.01	0.04
144	Pyraclostrobin	0.01	0.01	0.01	0.04
145	Pyraflufen-ethyl	0.01	0.01	0.01	0.04
146	Pyridalyl	0.01	0.01	0.01	0.04
147	Pyridaphenthion	0.01	0.01	0.01	0.04
148	Pyridate	0.01	0.01	0.01	0.04
149	Pyrifenoxy	0.01	0.01	0.01	0.04
150	Pyrimethanil	0.01	0.01	0.01	0.04
151	Pyriproxyfen	0.01	0.01	0.01	0.04
152	Pyroquilon	0.01	0.01	0.01	0.04
153	Pyroxsulam	0.01	0.01	0.01	0.04
154	Quinoxifen	0.01	0.01	0.01	0.04
155	Quizalofop	0.01	0.01	0.01	0.04
156	Quizalofop-ethyl	0.01	0.01	0.01	0.04
157	Schradan	0.01	0.015	0.01	0.04
158	Simeconazole	0.01	0.01	0.01	0.04
159	Spinosyn A	0.01	0.01	0.01	0.04
160	Spinosyn D	0.01	0.01	0.01	0.04

No	Analyte	Fresh fruit & vegetable		Processed fruit & vegetable and Honey	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
161	Spirodiclofen	0.01	0.01	0.01	0.04
162	Spiromesifen	0.01	0.01	0.01	0.04
163	SPIROTETRAMAT	0.01	0.01	0.01	0.04
164	Spiroxamine	0.01	0.01	0.01	0.04
165	Sulfentrazone	0.01	0.01	0.01	0.04
166	Tebufenozide	0.01	0.01	0.01	0.04
167	Tebufenpyrad	0.01	0.01	0.01	0.04
168	Tebupirimfos	0.01	0.01	0.01	0.04
169	Tepraloxydim	0.01	0.01	0.01	0.04
170	Tetraconazole	0.01	0.01	0.01	0.04
171	Thiabendazole	0.01	0.01	0.01	0.04
172	Thiacloprid	0.01	0.01	0.01	0.04
173	Thiamethoxam	0.01	0.01	0.01	0.04
174	Thiazopyr	0.01	0.01	0.01	0.04
175	Thiodicarb	0.01	0.01	0.01	0.04
176	Thiofanox	0.01	0.01	0.01	0.04
177	Thiofanox sulfone	0.01	0.01	0.01	0.04
178	Thiofanox sulfoxide	0.01	0.01	0.01	0.04
179	Thiophanate methyl	0.01	0.01	0.01	0.04
180	Tolfenpyrad	0.01	0.01	0.01	0.04
181	Tolyfluanid	0.01	0.01	0.01	0.04
182	Tralkoxydim	0.01	0.01	0.01	0.04
183	Trichlorfon	0.01	0.01	0.01	0.04
184	Tricyclazole	0.01	0.02	0.01	0.04
185	Trietazine	0.01	0.01	0.01	0.04
186	Trifloxysulfuron	0.01	0.01	0.01	0.04
187	Triforine	0.01	0.01	0.01	0.04
188	Trimethacarb	0.01	0.01	0.01	0.04
189	Zinophos	0.01	0.01	0.01	0.04
190	Zoxamide	0.01	0.01	0.01	0.04

**Appendix 2 to Annex A**

**Table 3**

**Pesticide Residues and Required LODs for PESTICIDES-DEM**

Compound #	Analyte	Meat		Dairy		Egg	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
1	Alachlor	0.0002	0.0005	0.0003	0.001	0.003	0.01
2	Alachlor metabolite (2-chloro-2',6'-diethylanilide)	0.0002	0.0005	0.008	0.03	0.008	0.03
3	Aldrin	0.025	0.08	0.003	0.01	0.003	0.01
4	Benoxacor	0.005	0.02	0.003	0.01	0.003	0.01
5	BHC Alpha	0.003	0.01	0.003	0.01	0.003	0.01
6	BHC beta	0.003	0.01	0.003	0.01	0.003	0.01
7	Bifenthrin	0.002	0.005	0.0006	0.002	0.0003	0.001
8	Boscalid	0.003	0.01	0.003	0.01	0.0006	0.002
9	Buprofezin	0.025	0.08	0.003	0.01	0.003	0.01
10	Carfentrazone ethyl	0.005	0.02	0.002	0.005	0.003	0.01
11	Chlordane cis	0.005	0.02	0.003	0.01	0.003	0.01
12	Chlordane trans	0.005	0.02	0.003	0.01	0.003	0.01
13	Chloroneb	0.01	0.04	0.003	0.01	0.003	0.01
14	Chlorpropham	0.03	0.10	0.003	0.01	0.003	0.01
15	Chlorpyrifos	0.0075	0.03	0.003	0.01	0.003	0.01
16	Chlorpyrifos methyl	0.005	0.02	0.003	0.01	0.003	0.01
17	Cyfluthrin (I,II,III,IV)	0.005	0.02	0.01	0.05	0.003	0.01
18	L-Cyhalothrin	0.002	0.005	0.015	0.05	0.0003	0.001
19	Cypermethrin	0.003	0.01	0.002	0.005	0.001	0.003
20	DDD-op (TDE-op)	0.03	0.10	0.008	0.02	0.003	0.01
21	DDD-pp (TDE-pp)	0.03	0.10	0.003	0.01	0.003	0.01
22	DDE-op	0.03	0.10	0.003	0.01	0.003	0.01
23	DDE-pp	0.03	0.10	0.003	0.01	0.003	0.01
24	DDT-op	0.03	0.10	0.008	0.02	0.003	0.01
25	DDT-pp	0.03	0.10	0.003	0.01	0.003	0.01
26	Deltamethrin	0.001	0.004	0.002	0.005	0.0006	0.002
27	Dichlorvos (DDVP)	0.001	0.004	0.0006	0.002	0.003	0.01
28	Dicofol	0.003	0.01	0.01	0.05	0.003	0.01
29	Dieldrin	0.025	0.08	0.003	0.01	0.003	0.01
30	Difenoconazole	0.002	0.005	0.0003	0.001	0.002	0.005
31	Endosulfan alpha	0.003	0.01	0.003	0.01	0.003	0.01
32	Endosulfan beta	0.003	0.01	0.003	0.01	0.003	0.01
33	Endosulfan sulfate	0.003	0.01	0.003	0.01	0.003	0.01
34	Endrin	0.003	0.01	0.003	0.01	0.003	0.01
35	Fenchlorophos (Ronnel)	0.003	0.01	0.003	0.01	0.003	0.01
36	Fenoxaprop-ethyl	0.01	0.04	0.0006	0.002	0.003	0.01
37	Fenpropathrin	0.025	0.08	0.003	0.01	0.003	0.01
38	Fenvalerate	0.01	0.04	0.003	0.01	0.003	0.01
39	Fipronil	0.005	0.02	0.003	0.01	0.003	0.01

Compound #	Analyte	Meat		Dairy		Egg	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
40	Fipronil desulfinyl	0.01	0.04	0.003	0.01	0.003	0.01
41	Fipronil sulfide	0.01	0.04	0.003	0.01	0.003	0.01
42	Fluridone	0.025	0.08	0.003	0.01	0.003	0.01
43	Fluvalinate	0.01	0.04	0.003	0.01	0.003	0.01
44	Heptachlor	0.006	0.02	0.003	0.01	0.003	0.01
45	Heptachlor epoxide endo	0.006	0.02	0.003	0.01	0.003	0.01
46	Hexachlorobenzene	0.003	0.01	0.003	0.01	0.003	0.01
47	Hexazinone	0.003	0.01	0.003	0.01	0.003	0.01
48	Lindane (gamma-BHC)	0.003	0.01	0.003	0.01	0.003	0.01
49	Malathion	0.04	0.15	0.003	0.01	0.003	0.01
50	Methoxychlor	0.003	0.01	0.009	0.05	0.003	0.01
51	Metolachlor	0.01	0.04	0.003	0.01	0.003	0.01
52	Metribuzin	0.05	0.15	0.003	0.01	0.003	0.01
53	Mirex	0.01	0.04	0.009	0.05	0.003	0.01
54	Nonachlor trans	0.005	0.02	0.003	0.01	0.003	0.01
55	Oxychlorane	0.01	0.04	0.003	0.01	0.003	0.01
56	Permethrin (cis & trans)	0.003	0.01	0.009	0.05	0.003	0.01
57	Piperonyl butoxide	0.03	0.01	0.003	0.01	0.003	0.01
58	Pronamide	0.005	0.02	0.003	0.01	0.003	0.01
59	Propachlor	0.01	0.04	0.003	0.01	0.003	0.01
60	Propanil	0.025	0.08	0.003	0.01	0.003	0.01
61	Propetamphos	0.01	0.04	0.003	0.01	0.003	0.01
62	Propiconazole	0.003	0.01	0.001	0.003	0.002	0.005
63	Pyriproxyfen	0.02	0.06	0.003	0.01	0.003	0.01
64	Quizalofop-ethyl	0.001	0.003	0.003	0.01	0.008	0.02
65	Resmethrin (cis & trans)	0.05	0.15	0.003	0.01	0.003	0.01
66	Tefluthrin	0.005	0.02	0.0003	0.001	0.003	0.01
67	3-Hydroxycarbofuran	0.02	0.06	0.003	0.01	0.003	0.01
68	Acephate	0.01	0.04	0.002	0.005	0.003	0.01
69	Acetamiprid	0.01	0.04	0.003	0.01	0.0003	0.001
70	Atrazine	0.002	0.005	0.001	0.004	0.001	0.004
71	Azoxystrobin	0.001	0.003	0.0003	0.001	0.0003	0.001
72	Carbaryl	0.01	0.03	0.003	0.01	0.003	0.01
73	Carbofuran	0.01	0.04	0.003	0.01	0.003	0.01
74	Carboxin	0.01	0.04	0.003	0.01	0.003	0.01
75	Clofentezine	0.003	0.01	0.0003	0.001	0.003	0.01
76	Clothianidin	0.002	0.005	0.0003	0.001	0.003	0.01
77	Coumaphos O	0.01	0.04	0.003	0.01	0.003	0.01
78	Coumaphos S	0.01	0.04	0.003	0.01	0.003	0.01
79	De-Ethyl Atrazine	0.01	0.04	0.003	0.01	0.003	0.01
80	Diflubenzuron	0.025	0.08	0.003	0.01	0.003	0.01
81	Diuron	0.03	0.1	0.003	0.01	0.003	0.01
82	Ethofumesate	0.01	0.03	0.003	0.01	0.003	0.01

Compound #	Analyte	Meat		Dairy		Egg	
		MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)	MDL (mg/kg)	LOQ (mg/kg)
83	Fluroxypyr-1-Methylheptyl-Ester	0.01	0.03	0.003	0.01	0.003	0.01
84	Imazalil	0.01	0.03	0.003	0.01	0.003	0.01
85	Imidacloprid	0.001	0.003	0.001	0.003	0.0006	0.002
86	Indoxacarb	0.01	0.03	0.003	0.01	0.003	0.01
87	Linuron	0.025	0.08	0.003	0.01	0.003	0.01
88	Metalaxyl	0.003	0.01	0.0003	0.001	0.002	0.005
89	Methomyl	0.03	0.10	0.003	0.01	0.003	0.01
90	Methoxyfenozide	0.003	0.01	0.0003	0.001	0.0006	0.002
91	Myclobutanil	0.003	0.01	0.009	0.05	0.008	0.02
92	Norflurazon	0.01	0.03	0.003	0.01	0.003	0.01
93	Profenofos	0.01	0.03	0.003	0.01	0.003	0.01
94	Pyraclostrobin	0.003	0.01	0.003	0.01	0.003	0.01
95	Pyridaben	0.003	0.01	0.0003	0.001	0.003	0.01
96	Simazine	0.01	0.03	0.003	0.01	0.003	0.01
97	Tebufofenozide	0.01	0.03	0.003	0.01	0.003	0.01
98	Thiabendazole	0.015	0.05	0.003	0.01	0.003	0.01
99	Thiamethoxam	0.002	0.005	0.0003	0.001	0.0006	0.002
100	Thiobencarb	0.05	0.15	0.003	0.01	0.003	0.01
101	Trifloxystrobin	0.003	0.01	0.0006	0.002	0.001	0.004
<b>Optional Analytes</b>							
102	Azamethiphos	0.003	0.01	0.003	0.01	0.003	0.01
103	Azinphos-methyl	0.003	0.01	0.003	0.01	0.003	0.01
104	Diazinon	0.003	0.01	0.003	0.01	0.003	0.01
105	Fenitrothion	0.003	0.01	0.003	0.01	0.003	0.01
106	Methyl parathion	0.003	0.01	0.003	0.01	0.003	0.01
107	Parathion	0.003	0.01	0.003	0.01	0.003	0.01
108	Phosmet	0.003	0.01	0.003	0.01	0.003	0.01
109	Terbufos	0.003	0.01	0.003	0.01	0.003	0.01
110	Tetrachlorvinphos	0.001	0.003	0.001	0.003	0.006	0.02



SAMPLE_NO	Commodity	Program	Analyte	Amount	DateAnalyze	DateRept	% Recovery d13 Surrogate	MDL	Tissue
Sample001	FRESH	BENZOPYRENE (PAH)	Acenaphthene	0	2019-05-12	2019-05-31		0.16	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Acenaphthylene	0	2019-05-12	2019-05-31	58	0.14	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Anthracene	0	2019-05-12	2019-05-31	74	0.13	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Benzo(a)anthracene	0	2019-05-12	2019-05-31	73	0.054	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Benzo(a)pyrene	0	2019-05-12	2019-05-31	57	0.088	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Benzo(b)fluoranthene	0	2019-05-12	2019-05-31	78	0.061	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Benzo(g,h,i)perylene	0	2019-05-12	2019-05-31	67	0.049	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Benzo(k)fluoranthene	0	2019-05-12	2019-05-31	76	0.053	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Chrysene	0	2019-05-12	2019-05-31	75	0.053	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Dibenzo(a,h)anthracene	0	2019-05-12	2019-05-31	57	0.044	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Fluoranthene	0	2019-05-12	2019-05-31	73	0.11	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Fluorene	0	2019-05-12	2019-05-31		0.11	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Indeno(1,2,3-cd)pyrene	0	2019-05-12	2019-05-31	65	0.046	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Naphthalene	0	2019-05-12	2019-05-31	66	0.61	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Phenanthrene	0.14	2019-05-12	2019-05-31	71	0.13	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	Pyrene	0	2019-05-12	2019-05-31		0.1	N/A
Sample001	FRESH	BENZOPYRENE (PAH)	PAH Total	0.144	2019-05-12	2019-05-31			N/A

## Appendix 4a to Annex A

### Toxic Equivalency Factors and sensitivity for dioxins and dioxin like compounds

<b>CHLORINATED DIBENZODIOXINS</b>	<b>Detection Limit Required (g/kg)</b>	<b>TEF</b>
2,3,7,8-TCDD	0.1	1.0
1,2,3,7,8-PeCDD	0.1	1.0
1,2,3,4,7,8-HxCDD	0.2	0.1
1,2,3,6,7,8-HxCDD	0.2	0.1
1,2,3,7,8,9-HxCDD	0.2	0.1
1,2,3,4,6,7,8-HpCDD	0.2	0.01
1,2,3,4,6,7,8,9-OCDD	0.5	0.0003
<b>CHLORINATED DIBENZOFURANS</b>		
2,3,7,8-TCDF	0.1	0.1
1,2,3,7,8-PeCDF	0.2	0.03
2,3,4,7,8-PeCDF	0.1	0.3
1,2,3,4,7,8-HxCDF	0.1	0.1
1,2,3,6,7,8-HxCDF	0.2	0.1
1,2,3,7,8,9-HxCDF	0.2	0.1
2,3,4,6,7,8-HxCDF	0.2	0.1
1,2,3,4,6,7,8-HpCDF	0.2	0.01
1,2,3,4,7,8,9-HpCDF	0.2	0.01
1,2,3,4,6,7,8,9-OCDF	0.2	0.0003
<b>PCBs with assigned toxic equivalency factors</b>		
3,3',4,4'-TeCB (PCB 77)	0.5	0.0001
3,4, 4',5'-TeCB (PCB 81)	0.5	0.0003
2,3,3',4,4'-PeCB (PCB 105)	0.5	0.00003
2,3,4,4',5'-PeCB (PCB 114)	0.5	0.00003
2,3',4,4',5'-PeCB (PCB 118)	0.5	0.00003
2',3,4,4',5'-PeCB (PCB 123)	0.5	0.00003
3,3',4,4',5'-PeCB (PCB 126)	0.5	0.1
2,3,3',4,4',5'-HxCB (PCB 156)	0.5	0.00003
2,3,3',4,4',5'-HxCB (PCB 157)	0.5	0.00003
2,3',4,4',5,5'-HxCB (PCB 167)	0.5	0.00003
3,3',4,4',5,5'-HxCB (PCB 169)	0.5	0.03
2,3,3',4,4',5,5'-HpCB (PCB 189)	0.5	0.00003

\* Toxic Equivalence Factor are based upon WHO/2005 estimates except for the congener PCB 170 and PCB 180 which are based upon WHO/94 estimated toxicity factors.

The CFIA does not provide a reference method for dioxins, furans and dioxin like PCBs in fatty foods. The acceptable method will be a third party accredited SOP based upon MS detection and confirmation of residues in foods.

Environmental methods will not be an acceptable alternative for a food method.

The sensitivity and scope of the method SOP provided must meet or surpass the criteria detailed in the above table.

## Appendix 4b to Annex A

### Sensitivity and scope required for PCB congeners

Number	Congener	Det. Lmt. (ng/kg)	Number	Congener	Det. Lmt. (ng/kg)
PCB #001	2-Chlorobiphenyl	1.0	PCB #128	2,2',3,3',4,4'-Hexachlorobiphenyl	0.5
PCB #003	4-Chlorobiphenyl	1.0	PCB #129	2,2',3,3',4,5-Hexachlorobiphenyl	0.5
PCB #004	2,2'-Dichlorobiphenyl	1.0	PCB #137	2,2',3,4,4',5-Hexachlorobiphenyl	0.5
PCB #008	2,4'-Dichlorobiphenyl	1.0	PCB #138	2,2',3,4,4',5'-Hexachlorobiphenyl	0.5
PCB #010	2,6-Dichlorobiphenyl	1.0	PCB #141	2,2',3,4,5,5'-Hexachlorobiphenyl	0.5
PCB #015	4,4'-Dichlorobiphenyl	1.0	PCB #149	2,2',3,4,5',6-Hexachlorobiphenyl	0.5
PCB #018	2,2',5-Trichlorobiphenyl	0.5	PCB #151	2,2',3,5,5',6-Hexachlorobiphenyl	0.5
PCB #019	2,2',6-Trichlorobiphenyl	0.5	PCB #153	2,2',4,4',5,5'-Hexachlorobiphenyl	0.5
PCB #022	2,3,4'-Trichlorobiphenyl	0.5	PCB #155	2,2',4,4',6,6'-Hexachlorobiphenyl	0.5
PCB #028	2,4,4'-Trichlorobiphenyl	0.5	PCB #156	2,3,3',4,4',5-Hexachlorobiphenyl	0.5
PCB #033	2',3,4'-Trichlorobiphenyl	0.5	PCB #157	2,3,3',4,4',5'-Hexachlorobiphenyl	0.5
PCB #037	3,4,4'-Trichlorobiphenyl	0.5	PCB #158	2,3,3',4,4',6-Hexachlorobiphenyl	0.5
PCB #040	2,2',3,3'-Tetrachlorobiphenyl	0.5	PCB #167	2,3',4,4',5,5'-Hexachlorobiphenyl	0.5
PCB #041	2,2',3,4-Tetrachlorobiphenyl	0.5	PCB #168	2,3',4,4',5',6-Hexachlorobiphenyl	0.5
PCB #044	2,2',3,5-Tetrachlorobiphenyl	0.5	PCB #169	3,3',4,4',5,5'-Hexachlorobiphenyl	0.5
PCB #049	2,2',4,5'-Tetrachlorobiphenyl	0.5	PCB #170	2,2',3,3',4,4',5-Heptchlorobiphenyl	0.5
PCB #052	2,2',5,5'-Tetrachlorobiphenyl	0.5	PCB #171	2,2',3,3',4,4',6-Heptchlorobiphenyl	0.5
PCB #054	2,2',6,6"-Tetrachlorobiphenyl	0.5	PCB #177	2,2',3,3',4',5,6-Heptchlorobiphenyl	0.5
PCB #060	2,3',4,4'-Tetrachlorobiphenyl	0.5	PCB #178	2,2',3,3',5,5',6-Heptchlorobiphenyl	0.5
PCB #066	2,3',4,4'-Tetrachlorobiphenyl	0.5	PCB #180	2,2',3,4,4',5,5'-Heptchlorobiphenyl	0.5
PCB #070	2,3',4',5-Tetrachlorobiphenyl	0.5	PCB #183	2,2',3,4,4',5',6-Heptchlorobiphenyl	0.5
PCB #074	2,4,4',5-Tetrachlorobiphenyl	0.5	PCB #187	2,2',3,4',5,5',6-Heptchlorobiphenyl	0.5
PCB #077	3,3',4',4'-Tetrachlorobiphenyl	0.5	PCB #188	2,2',3,4',5,6,6'-Heptchlorobiphenyl	0.5
PCB #081	3,4,4',5-Tetrachlorobiphenyl	0.5	PCB #189	2,3,3',4,4',5,5'-Heptchlorobiphenyl	0.5
PCB	2,2',3,4,5'-Pentachlorobi	0.5	PCB	2,3,3',4,4',5',6-Heptchlorobiphen	0.5

#087	phenyl		#191	yl	
PCB #095	2,2',3,5',6-Pentachlorobiphenyl	0.5	PCB #193	2,3,3',4',5,5',6-Heptachlorobiphenyl	0.5
PCB #099	2,2',4,4',5-Pentachlorobiphenyl	0.5	PCB #194	2,2',3,3',4,4',5,5'-Octachlorobiphenyl	0.5
PCB #104	2,2',4,6,6'-Pentachlorobiphenyl	0.5	PCB #199	2,2',3,3',4,5,6,6'-Octachlorobiphenyl	0.5
PCB #105	2,3,3',4,4'-Pentachlorobiphenyl	0.5	PCB #201	2,2',3,3',4,5,5',6'-Octachlorobiphenyl	0.5
PCB #110	2,3,3',4',6'-Pentachlorobiphenyl	0.5	PCB #202	2,2',3,3',5,5',6,6'-Octachlorobiphenyl	0.5
PCB #114	2,3,4,4',5-Pentachlorobiphenyl	0.5	PCB #203	2,2',3,4,4',5,5',6-Octachlorobiphenyl	0.5
PCB #118	2,3',4,4',5-Pentachlorobiphenyl	0.5	PCB #205	2,3,3',4,4',5,5',6-Octachlorobiphenyl	0.5
PCB #119	2,3',4,4',6-Pentachlorobiphenyl	0.5	PCB #206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	0.5
PCB #123	2',3,4,4',5-Pentachlorobiphenyl	0.5	PCB #208	2,2',3,3',4,5,5',6,6'-Nonachlorobiphenyl	0.5
PCB #126	3,3',4,4',5-Pentachlorobiphenyl	0.5	PCB #209	Decachlorobiphenyl	0.5

The CFIA does not provide a reference method for trace PCBs in fatty foods. The acceptable method will be a third party accredited SOP based upon MS detection and confirmation of residues in foods.

Environmental methods will not be an acceptable alternative for a food method.

The sensitivity and scope of the method SOP provided must meet or surpass (ie more congeners or reduced sensitivities) the criteria identified in the above table.

## Appendix 4c to Annex A

## Dioxins/PCB Worksheet

CFIA Sample Number							
ProductType							
Sample Description							
Country of Origin							
Lab ID Number							
Date Sampled							
Date Received							
Region							
EST No							
Fat Content (%)							
Calculated on Total wt or Fat basis							
				% RECOVERY			
<b>Analyte</b>	<b>CONC</b>	<b>EMPC</b>	<b>MDL</b>	<b>C13 SURROGATES</b>	<b>TEF</b>	<b>LBL</b>	<b>UBL</b>
2378-TCDD					1.00000	0	0
12378-PeCDD					1.00000	0	0
123478-HxCDD					0.10000	0	0
123678-HxCDD					0.10000	0	0
123789-HxCDD					0.10000	0	0
<b>1234678-HpCDD</b>					0.01000	0	0
OCDD					0.00030	0	0
2378-TCDF					0.10000	0	0
12378-PeCDF					0.03000	0	0
23478-PeCDF					0.30000	0	0
123478-HxCDF					0.10000	0	0
123678-HxCDF					0.10000	0	0
123789-HxCDF					0.10000	0	0
234678-HxCDF					0.10000	0	0
1234678-HpCDF					0.01000	0	0
1234789-HpCDF					0.01000	0	0
OCDF					0.00030	0	0
PCB #001 2-chloro							
PCB #003 4-chlorobiphenyl							
PCB #004 22'-Dichloro							
PCB #008 24'-Dichlorobiphenyl							
PCB #010							
PCB #015							
PCB #018 22'5'-Trichloro							
PCB #019 22'6'-Trichloro							
PCB #022 234'-Trichloro							
PCB #028 244'-Trichloro							
PCB #033 2'34'-Trichloro							
PCB #037							
PCB #040 22'33'-Tetra							
PCB #041 22'34'-Tetra							

PCB #044 22'35'-Tetra							
PCB #049 22'45'-Tetra							
PCB #052 22'55'-Tetra							
PCB #054 22'66''-Tetra							
PCB #060 23'44'-Tetrachlor							
PCB #066 23'44'-Tetrachlor							
PCB #070 23'4'5'-Tetrachlor							
PCB #074 244'5'-Tetrachloro							
PCB #077 33'4'4'-Tetrachlo					0.0001	0	0
PCB #081 344'5'-Tetrachloro					0.0003	0	0
PCB #087 22'345'-Pentachl							
PCB #095 22'35'6'-Pentachl							
PCB #099 22'44'5'-Pentachl							
PCB #104 22'466'-Pentachl							
PCB #105 233'44'-Pentachl					0.00003	0	0
PCB #110 233'4'6'-Pentach							
PCB #114 2344'5'-Pentachlo					0.00003	0	0
PCB #118 23'44'5'-Pentachl					0.00003	0	0
PCB #119 23'44'6'-Pentachl							
PCB #123 2'344'5'-Pentachl					0.00003	0	0
PCB #126 33'44'5'-Pentachlo					0.1	0	0
PCB #128 22'33'44'-Hexac							
PCB #129 22'33'45'-Hexach							
PCB #137 22'344'5'-Hexach							
PCB #138 22'344'5'-Hexac							
PCB #141 22'3455'-Hexach							
PCB #149 22'345'6'-Hexach							
PCB #151 22'355'6'-Hexach							
PCB #153 22'44'55'-Hexach							
PCB #155							
PCB #156 233'44'5'-Hexachl					0.00003	0	0
PCB #157 233'44'5'-Hexach					0.00003	0	0
PCB #158 233'44'6'-Hexachl							
PCB #167 23'44'55'-Hexach					0.00003	0	0
PCB #168 23'44'5'6'-Hexach							
PCB #169 33'44'55'-Hexach					0.03	0	0
PCB #170 22'33'44'5'-Hept					0	0	0
PCB #171 22'33'44'6'-Hept					0	0	0
PCB #177 22'33'4'56'-Hept							
PCB #178 22'33'55'6'-Hept							
PCB #180 22'344'55'-Hept							
PCB #183 22'344'5'6'-Hept							
PCB #187 22'34'55'6'-Hept							
PCB #188							
PCB #189 233'44'55'-Hept					0.00003	0	0
PCB #191 233'44'5'6'-Hept							
PCB #193 233'4'55'6'-Hept							
PCB #194 22'33'44'55'-Octa							
PCB #199 22'33'4566'-Octa							
PCB #201							

PCB #202							
PCB #203 22'344'55'6-Octa							
PCB #205 233'44'55'6-Octa							
PCB #206 22'33'44'55'6-Non							
PCB #208							
PCB #209							
<b>Total PCB</b>	<b>0.0000</b>						

Lower Bound Dioxins TEQ	0
Lower Bound Furans TEQ	0
Lower Bound PCB TEQ	0
Total Lower Bound TEQ	0
Upper Bound Dioxins TEQ	0
Upper Bound Furans TEQ	0
Upper Bound PCB TEQ	0
Total Upper Bound TEQ	0

## Attachment 4d

## Dioxin and Dioxin-like Congeners Reporting Template

CFIA Sample Number							
ProductType							
Sample Description							
Country of Origin							
Lab ID Number							
Date Sampled							
Date Received							
Region							
EST No							
Lipid content (%)							
Calculated on Total wt or Fat basis							

  

Compound	Conc	EMPC	MDL	% RECOVERY	TEF	LBL	UBL
				C13 SURROGATES			
2378-TCDD					1	0	0
12378-PeCDD					1	0	0
123478-HxCDD					0.1	0	0
123678-HxCDD					0.1	0	0
123789-HxCDD					0.1	0	0
1234678-HpCDD					0.01	0	0
OCDD					0.0003	0	0
2378-TCDF					0.1	0	0
12378-PeCDF					0.03	0	0
23478-PeCDF					0.3	0	0
123478-HxCDF					0.1	0	0
123678-HxCDF					0.1	0	0
123789-HxCDF					0.1	0	0
234678-HxCDF					0.1	0	0
1234678-HpCDF					0.01	0	0
1234789-HpCDF					0.01	0	0
OCDF					0.0003	0	0
PCB #028 244'-Trichloro						0	0
PCB #052 22'55'-Tetra						0	0
PCB #077 33'4'4'-Tetrachlo					0.0001	0	0
PCB #081 344'5'-Tetrachloro					0.0003	0	0
PCB #101 22'455' Penta						0	0
PCB #105 233'44'-Pentachl					0.00003	0	0
PCB #114 2344'5'-Pentachlo					0.00003	0	0
PCB #118 23'44'5'-Pentachl					0.00003	0	0
PCB #123 2'344'5'-Pentachl					0.00003	0	0
PCB #126 33'44'5'-Pentachlo					0.1	0	0



PCB #138 22'344'5'-Hexac							
PCB #153 22'44'55'-Hexach						0	0
PCB #156 233'44'5'-Hexachl					0.00003	0	0
PCB #157 233'44'5'-Hexach					0.00003	0	0
PCB #167 23'44'55'-Hexach					0.00003	0	0
PCB #169 33'44'55'-Hexach					0.03	0	0
PCB #180 22'344'55'-Hept						0	0
PCB #189 233'44'55'-Hept					0.00003	0	0
Total PCB (pg/g)	0						

Lower Bound Dioxins TEQ	0
Lower Bound Furans TEQ	0
Lower Bound PCB TEQ	0
Total Lower Bound TEQ	0
Upper Bound Dioxins TEQ	0
Upper Bound Furans TEQ	0
Upper Bound PCB TEQ	0
Total Upper Bound TEQ	0