Parent Class Fi		Ontology								otes
	Field	Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking			Subset
c	Colour Code Legend					IMPORTANT: Only labels and/or IDs will be deprecated, always with replacement version	Label	ID	Description/Gui	
fie	ield name in yellow = required					provided. If a term changes in its meaning, a				
	ield name in purple = recommended					new term will be created.				
	ield name in white = optional									HPAI:HPAI Fo
Da	Database Identifiers	GENEPIO:0001122		Store the collector sample ID. If this number is						HPAI;HPAI_Fo od;HPAI_WW;
				considered identifiable information, provide an						
				alternative ID. Be sure to store the key that maps between the original and alternative IDs for	S					
				traceability and follow up if necessary. Every collector sample ID from a single submitter must						HPAI:HPAI Fo
				be unique. It can have any format, but we						od;HPAI_WW;
Database identifiers sp	specimen_collector_sample_ID	GENEPIO:0001123	The user-defined name for the sample.	suggest that you make it concise, unique and consistent within your lab.	ASDFG123		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
										HPAI;HPAI_Fo od;HPAI_WW;
Database identifiers sp		GENEPIO:0100752			ASDFG123 12		1.0.0	4.0.0		HPAI_Enviro;H
Database identifiers sp	specimen_collector_subsample_ID	GENEPIO:0100752	The user-defined identifier assigned to a portion of the original sample.	Store the ID for the subsample/aliquot. If the sample being analyzed is the result of	ASDFG123_12		1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPAI Fo
			The user-defined identifier assigned to a combined (pooled) set of	pooling individual samples, rename the pooled sample with a new identifier. Store the pooled						od;HPAI_WW; HPAI_Enviro;H
Database identifiers po	pooled_sample_ID	GENEPIO:0100996	samples.	sample ID.	12345AYZ		1.0.0	1.0.0	1.0.0	PAI_Host
				Store the ID for the site from which a sample was taken. The "site" is user defined (e.g. it may						
				be a building and its environs, a specific entity within an environment). Please use the same						
				site ID for all samples from a given site,						HPAI;HPAI_Fo
			The user-defined identifier assigned to a specific location from which	regardless of when these samples were taken. Any important changes in site location, should						od;HPAI_WW; HPAI_Enviro;H
Database identifiers sa	sampling_site_ID	GENEPIO:0100760	samples are taken.	be represented with a new site ID.	Site 12A		1.0.0	1.0.0	1.0.0	PAI_Host
				Store the ID for the event during which a sample or samples were taken. For example, an event	'					HPAI;HPAI_Fo
			The user-defined identifier assigned to a specific event during which	could be one person taking samples from multiple sites, or multiple people taking samples						od;HPAI_WW; HPAI_Enviro;H
Database identifiers sa	sampling_event_ID	GENEPIO:0100761	one or more samples are taken, from one or more sites.	from one site.	Event 120522.1		1.0.0	1.0.0	1.0.0	PAI_Host
				Store the BioProject accession number. BioProjects are an organizing tool that links						
				together raw sequence data, assemblies, and their associated metadata. Each province will be	,					
				assigned a different bioproject accession number by the National Microbiology Lab. A						HPAI;HPAI_Fo
				valid NCBI BioProject accession has prefix						od;HPAI WW;
Database identifiers Bio	BioProject_accession	GENEPIO:0001136	The INSDC (i.e., ENA, NCBI, or DDBJ) accession number of the BioProject(s) to which the BioSample belongs.	PRJN e.g., PRJNA12345, and is created once at the beginning of a new sequencing project.	PRJNA608651		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
				Store the accession returned from the BioSample submission. NCBI BioSamples will	SAMN1418020					HPAI;HPAI_Fo
			The identifier assigned to a BioSample in INSDC (i.e., ENA, NCBI, or	have the prefix SAMN, ENA have the prefix	SAMD0000000					HPAI_Enviro;H
Database identifiers Bio	BioSample_accession	GENEPIO:0001139	DDBJ) archives.	SAMEA, DDBJ have SAMD Store the accession assigned to the submitted	1		1.0.0	1.0.0	1.0.0	PAI_Host
				sequence. European Nucleotide Archive (ENA) sequence accessions start with ERR, NCBI-SRA						
				accessions start with SRR, DNA Data Bank of						HPAI;HPAI_Fo
			The identifier assigned to a sequence in one of the International	Japan (DDBJ) accessions start with DRR and Genome Sequence Archive (GSA) accessions	ERR123456, DRR123456,					od;HPAI_WW; HPAI_Enviro;H
Database identifiers IN	NSDC sequence read accession	GENEPIO:0101203	Nucleotide Sequence Database Collaboration (INSDC) repositories.	start with CRR.	CRR123456		1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPAI Fo
			The versioned identifier assigned to an assembly or consensus	Store the versioned accession assigned to the						od;HPAI WW;
Database identifiers IN	NSDC assembly accession	GENEPIO:0101204	sequence in one of the International Nucleotide Sequence Database Collaboration (INSDC) repositories.	submitted sequence e.g. the GenBank accession version.	LZ986655.1		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
										HPAI;HPAI_Fo od;HPAI_WW;
										HPAI_Enviro;H
Sa	Sample collection and processing	GENEPIO:0001150		_						PAI_Host HPAI;HPAI Fo
			The name of the individual responsible for the data governance.	Provide the name of the sample collection data						od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing sa	sample_collection_data_steward_name	GENEPIO:0100762	(meta)data usage and distribution of the sample.	steward.	Joe Bloggs		1.0.0	1.0.0	1.0.0	PAI_Host
				Provide the email address of the sample collection data steward. This may or may not be						
				the same individual/organization that collected						HPAI;HPAI_Fo od:HPAI_WW:
			The email address of the individual responsible for the data	the sample. If the contact is the same, provide the same address as the "sample collector	bloggsj@aglab.					HPAI_Enviro;H
Sample collection and processing sa	sample_collection_data_steward_contact_email	GENEPIO:0101107	governance, (meta)data usage and distribution of the sample.	contact email".	ca					PAI_Host HPAI;HPAI_Fo
			The second secon	The name of the agency should be written out in	Public Health					od;HPAI WW;
Sample collection and processing sa	sample_collected_by	GENEPIO:0001153	The name of the organization with which the sample collector is affiliated.	full, (with minor exceptions) and be consistent across multiple submissions.	Agency of Canada		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
				The email address can represent a specific						HPAI;HPAI_Fo od;HPAI_WW;
Console collection of		OFNEDIO COCCUST	The email address of the contact responsible for follow-up regarding the	e individual or lab e.g. johnnyblogs@lab.ca, or	WaterTester@f		100	400	400	HPAI_Enviro;H
Sample collection and processing sa	sample_collector_contact_email	GENEPIO:0001156	sample.	RespLab@lab.ca	acility.ca		1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPAI Fo
										od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing ge	geo_loc_name_(country)	GENEPIO:0001181	The country of origin of the sample.	If known, select a value from the pick list.	Canada		1.0.0	1.0.0	1.0.0	PAI_Host

		Ontology	- a			Deprecated Label Deprecated ID	Version		Editor No	otes
Parent Class	Field	Identifier	Definition	Guidance	Examples		rracking			Subset HPAI;HPAI Fo
				Provide the state/province/territory name from the GAZ geography ontology. Search for						od;HPAI_WW;
Sample collection and processing	geo loc name (state/province/territory)	GENEPIO:0001185	The state form in a familiar of the second	geography terms here:	Western Cape		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI Host
Sample collection and processing	geo_loc_name_(state/province/territory)	GENEPIO:0001185	The state/province/territory of origin of the sample.	https://www.ebi.ac.uk/ols/ontologies/ga	western Cape		1.0.0	1.0.0	1.0.0	HPAI;HPAI Fo
				Provide the county/region name from the GAZ						od;HPAI WW;
Sample collection and processing	geo loc name (county/region)	GENEPIO:0100280	The county/region of origin of the sample.	geography ontology. Search for geography terms here: https://www.ebi.ac.uk/ols/ontologies/gaz	Derhyshire		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
cample concean and processing	goo_loo_namo_(coamy/rogion)	OLITA 10.0100200	The county/region of origin of the cample.		Boibyonno		1.0.0	1.0.0	1.0.0	HPAI;HPAI Fo
				Provide the city name from the GAZ geography						od;HPAI_WW; HPAI_Enviro:H
Sample collection and processing	geo_loc_name_(city)	GENEPIO:0001189	The city of origin of the sample.	ontology. Search for geography terms here: https://www.ebi.ac.uk/ols/ontologies/gaz	Vancouver		1.0.0	1.0.0	1.0.0	PAI_Host
										HPAI;HPAI_Fo
			The name of a specific geographical location e.g. Credit River (rather	Provide the name of the specific geographical site using a specific noun (a word that names a						od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing	geo_loc_name_(site)	GENEPIO:0100436	than river).	certain place, thing).	Credit River		1.0.0	1.0.0	1.0.0	PAI_Host
				Provide latitude coordinates if available. Do not use the centre of the						
				city/region/province/state/country or the location						HPAI;HPAI_Fo
			The letter de constitute of the constitute of constitute of constitute of the consti	of your agency as a proxy, as this implicates a real location and is misleading. Specify as						od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing	geo_loc_latitude	GENEPIO:0100309	The latitude coordinates of the geographical location of sample collection.	degrees latitude in format "d[d.dddd] N S".	38.98 N		1.0.0	1.0.0	1.0.0	PAI_Host
· · · · · · · · · · · · · · · · · · ·				Provide longitude coordinates if available. Do no	t					
				use the centre of the city/region/province/state/country or the location						HPAI:HPAI Fo
				of your agency as a proxy, as this implicates a						od;HPAI_WW;
Sample collection and processing	geo_loc_longitude	GENEPIO:0100310	The longitude coordinates of the geographical location of sample collection.	real location and is misleading. Specify as degrees longitude in format "d[dd.dddd] W E".	77.11 W		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
	9			Provide the official nomenclature for the						
				organism(s) present in the sample. Multiple organisms can be entered, separated by						HPAI;HPAI Fo
				semicolons. Avoid abbreviations. Search for						od;HPAI WW;
Sample collection and processing	organism	GENEPIO:0001191	Taxonomic name of the organism.	taxonomic names here: ncbi.nlm.nih.qov/taxonomy.	Vibrio cholerae		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
Sample collection and processing	organism	GENEFIO.0001191	taxonomic fiame of the organism.	ncbi.nim.nin.gov/taxonomy.	VIDITO CITOTETAE		1.0.0	1.0.0	1.0.0	HPAI;HPAI Fo
										od;HPAI_WW;
Sample collection and processing	influenza_subtype	GENEPIO:0101108					1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
										HPAI;HPAI_Fo
										od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing	influenza_subtyping_scheme_name	GENEPIO:0101109					1.0.0	1.0.0	1.0.0	PAI_Host
										HPAI;HPAI_Fo
										od;HPAI_WW; HPAI_Enviro:H
Sample collection and processing	taxonomic_identification_process	GENEPIO:0100583					1.0.0	1.0.0	1.0.0	PAI_Host
										HPAI;HPAI_Fo od:HPAI_WW:
										HPAI_Enviro;H
Sample collection and processing	virus_identifier	GENEPIO:0101110					1.0.0	1.0.0	1.0.0	PAI_Host
										HPAI;HPAI_Fo od;HPAI_WW;
										HPAI_Enviro;H
Sample collection and processing	WHO/OIE/FAO_H5_clade	GENEPIO:0101111		If			1.0.0	1.0.0	1.0.0	PAI_Host
				If your sample is a continuous sample please use this field to capture your start date. Sample						
				collection date is critical for surveillance and many types of analyses. Required granularity						HPAI:HPAI Fo
				includes year, month and day. The date should						od;HPAI_WW;
Comple collection and processing	sample collection date	GENEPIO:0001174	The date on which the sample was collected, or sampling began for a continuous sample.	be provided in ISO 8601 standard format	2020-03-16		100	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
Sample collection and processing	sample_collection_date	GENEFIO.0001174	continuous sample.	Provide the date that sample collection ended in	2020-03-10		1.0.0	1.0.0	1.0.0	HPAI:HPAI W
Sample collection and processing	sample_collection_end_date	GENEPIO:0101071	The date on which sample collection ended for a continuous sample.	ISO 8601 format i.e. YYYY-MM-DD	2020-03-18		1.0.0	1.0.0	1.0.0	W;HPAI_Enviro
Sample collection and processing	cample collection start time	GENEPIO:0101072	The time at which sample collection began.	Provide this time in ISO 8601 24hr format, in your local time.	17:15 PST		1.0.0	1.0.0	1.0.0	HPAI;HPAI_W W;HPAI_Enviro
cample collection and processing	sample_collection_start_time	GENEPIO:01010/2	тто што ас witter sample collection began.	Provide this time in ISO 8601 24hr format, in	17.10701		1.0.0	1.0.0	1.0.0	W;HPAI_Enviro
Sample collection and processing	sample_collection_end_time	GENEPIO:0101073	The time at which sample collection ended.	your local time.	19:15 PST		1.0.0	1.0.0	1.0.0	W;HPAI_Enviro
				If known, select a value from the pick list. The						
				time of sample processing matters especially for grab samples, as fecal concentration in						
Sample collection and processing	sample_collection_time_of_day	GENEPIO:0100765	The descriptive time of day during which the sample was collected.	wastewater fluctuates over the course of the day			1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW
Sample collection and processing	sample_collection_time_duration_value	GENEPIO:0100766 GENEPIO:0100767	The amount of time over which the sample was collected.	Provide the numerical value of time. Provide the units from the pick list	4		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW
Sample collection and processing	sample_collection_time_duration_unit	GENEPIO:0100767	The units of the time duration measurement of sample collection.	Provide the units from the pick list. Provide the sample received date in ISO 8601	Hour		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW
Sample collection and processing	sample received date	GENEPIO:0001179	The date on which the sample was received.	format, i.e. "YYYY-MM-DD".	2020-03-28		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Food
				Provide the sample processed date in ISO 8601						
				format, i.e. "YYYY-MM-DD". The sample may be collected and processed (e.g. filtered, extraction)	,					
Sample collection and processing	sample processing date	GENEPIO:0100763	The date on which the sample was processed.	on the same day, or on different dates.	2020-03-16		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Food
				If a sample is from a human or animal host that						
				originated from outside of Canada, provide the the name of the country where the host						
				originated by selecting a value from the template	South Africa					
Sample collection and processing	host_origin_geo_loc_name (country)	GENEPIO:0100438	The country of origin of the host.	pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.			1.0.0	1.0.0	1.0.0	HPAI;HPAI Host
cample collection and processing	nost_origin_geo_loc_name (country)	GENEFIO.0100430	The country of origin of the flost.	po provideu, leave plank or provide a full value.	-71		1.0.0	1.0.0	1.0.0	FIFAI, HPAI

Parent Class	Field	Ontology Identifier	Definition	Guidance	Deprecated Label Deprecated ID Examples	Version Tracking		Editor Notes	s
Sample collection and processing	food product origin geo loc name (country)	GENEPIO:0100437	The country of origin of a food product.	If a food product was sampled and the food product was manufactured outside of Canada, provide the name of the country where the food product originated by selecting a value from the template pick list. If the information is unknown or cannot be provided, leave blank or provide a null value.	United States of America	1.0.0	1.0.0	100	HPAI;HPAI_Fo
cample conceasing	root_noset_ongn_geo_ot_name (connry)	SENEN IS. STIGOTS	The county of origin of a too product.	This field includes animal feed. If applicable, select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided,	Feather meal [FOODON:000 03927]; Bone meal [ENVO:020000 54]; Chicken breast	1.0.0	10.0	10.0	HPAI;HPAI_Fo
Sample collection and processing	food_product	GENEPIO:0100444	A material consumed and digested for nutritional value or enjoyment.	separated by a semi-colon.	02703]	1.0.0	1.0.0	1.0.0	od od
			Any characteristic of the food product pertaining to its state, processing,	Provide any characteristics of the food product including whether it has been cooked, processed, preserved, any known information about its state (e.g. raw, ready-to-eat), any known information about its containment (e.g.	Food (chopped) [FOODON:000 02777]; Ready-to-eat (RTE) ECODON:033				
Sample collection and processing	food_product_properties	GENEPIO:0100445	a label claim, or implications for consumers.	(e.g. organic, fat-free).	16636]	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Food
Sample collection and processing	food packaging	GENEPIO:0100447	The type of packaging used to contain a food product.	If known, provide information regarding how the food product was packaged.	Plastic tray or pan [FOODON:034 90126]	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo
Sample collection and processing	food_quality_date	GENEPIO:0100615	A date recommended for the use of a product while at peak quality, this date is not a reflection of safety unless used on infant formula.	This date is typically labeled on a food product as "best if used by", best by", "use by", or "freeze by" e.g. 5/24/2020. If the date is known, leave blank or provide a null value.	2020-05-25	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo
Sample collection and processing	food_packaging_date	GENEPIO:0100616	A food product's packaging date as marked by a food manufacturer or retailer.	The packaging date should not be confused with, nor replaced by a Best Before date or other food quality date. If the date is known, leave blank or provide a null value.	2020-05-25	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo
Sample collection and processing	environmental_site	GENEPIO:0001232	An environmental location may describe a site in the natural or built environment e.g. hospital, wet market, bat cave.	If applicable, select the standardized term and ontology ID for the environmental site from the picklist provided. Multiple values can be provided, separated by a semi-colon.	Poultry hatchery [ENVO:010018 74]	1.0.0	1.0.0	1.0.0	HPAI;HPAI_W W;HPAI_Enviro ;HPAI_Food
Sample collection and processing	environmental material	GENEPIO:0001223	A substance obtained from the natural or man-made environment e.g. soil, water, sewage, door handle, bed handrall, face mask.	If applicable, select the standardized term and ontology ID for the environmental material from the picklist provided. Multiple values can be provided. searched by a semi-colon.	Soil [ENVC)000019 98]; Water [CHEB:15377]; Wastewater [ENVC)000020 01]; Broom [ENVC)035013 771	100	100	100	HPAI;HPAI_W W;HPAI_Enviro :HPAI_Food
	-	GENEPIO:0001211	A substance obtained from an anatomical part of an organism e.g. tissue, blood.	An anatomical material is a substance taken from the body. If applicable, select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided, separated by a semi-colon.	Tissue [UBERON:000 0479]: Blood	100	100	100	HPAI;HPAI_Ho
Sample collection and processing Sample collection and processing	anatomical_material	GENEPIO:0001211	Tissue, ploco. A substance excreted/secreted from an organism e.g. feces, urine, sweat.	A body product is a substance produced by the body but meant to be excreted/secreted (i.e. not part of the body). If applicable, select the	Feces [UBERON:000 [1988]: Urine [UBERON:000	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Ho
				An anatomical part is a structure or location in the body. If applicable, select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be	Snout [UBERON:000				HPAI;HPAI_Ho
Sample collection and processing	anatomical_part	GENEPIO:0001214	An anatomical part of an organism e.g. oropharynx.	provided, separated by a semi-colon. This field includes animal feed. If applicable, select the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be provided,	6333] Drag swab	1.0.0	1.0.0	1.0.0	St
Sample collection and processing	collection_device	GENEPIO:0001234	The instrument or container used to collect the sample e.g. swab.	separated by a semi-colon. If applicable, provide the standardized term and ontology ID for the anatomical material from the picklist provided. Multiple values can be	collection [GENEPIO_00	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Food
Sample collection and processing	collection_method	GENEPIO:0001241	The process used to collect the sample e.g. phlebotomy, necropsy. The numerical value of the volume measurement of the sample	provided, separated by a semi-colon.	02116]	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Food
Sample collection and processing	sample_volume_measurement_value	GENEPIO:0100768	collected.	Provide the numerical value of volume.	5	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Food
Sample collection and processing	sample_volume_measurement_unit	GENEPIO:0100769	The units of the volume measurement of the sample collected.	Provide the units from the pick list.	milliliter (mL) [UO:0000098]	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host
Sample collection and processing	residual sample status	GENEPIO:0101090	The status of the residual sample (whether any sample remains after its original use).	Residual samples are samples that remain after the sample material was used for its original purpose. Select a residual sample status from the picklist. If sample still exists, select "Residual sample remaining (some samp	No residual sample (sample all used) [CENEPIO:010 1088]	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host

		Ontology			Deprecated	Label Deprecated ID	Version		Editor N	otes
Parent Class	Field	Identifier	Definition	Guidance	Examples		Tracking			Subset
				The reason a sample was collected may provide information about potential biases in sampling strategy. Provide the purpose of sampling from the picklist in the template. Most likely, the sample was collected for Public health surveillance. The reason why a sample was originally collected may differ from the reason why it was selected for sequencing, which should be indicated in the "purpose of"	Public health					HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing	purpose_of_sampling	GENEPIO:0001198	The reason that the sample was collected.	sequencing" field. If there was an activity that would affect the	surveillance		1.0.0	1.0.0	1.0.0	PAI_Host
Sample collection and processing	presampling_activity	GENEPIO:0100433	The activities or variables upstream of sample collection that may affect the sample.	sample prior to collection (this is different than sample processing), provide the activities by selecting one or more values from the template	activity		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host
			The details of the activities or variables that affected the sample	Briefly describe the presampling activities using	Agricultural waste from large farm contributes waste to the					HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing	presampling_activity_details	GENEPIO:0100434	collected.	free text.	site sampled. The sample		1.0.0	1.0.0	1.0.0	PAI_Host
				Provide details of how the sample was stored from time of collection until time of processing. If there were issues with the cold chain storage,	was placed in a tube in a cooler bag during transportation transportation transportation the lab site. At this point the sample was placed in storage medium and put in a -10C freezer until it was processed and extracted 5					HPALHPAL Fo od:HPAL WW: HPAL Enviro:H
Sample collection and processing	sample_storage_method	GENEPIO:0100448	The process used to store the sample.	note those here.	days later.		1.0.0	1.0.0	1.0.0	PAI_Host HPAI:HPAI Fo
Sample collection and processing	sample_storage_medium	GENEPIO:0100449	The medium in which a sample is stored.	Provide the name of the transport medium or storage medium used for this sample. If none was used, leave blank or write "None".	Cary-Blair transport medium		1.0.0	1.0.0	1.0.0	od;HPAI_WW; HPAI_Enviro;H PAI_Host
Sample collection and processing	sample_storage_duration_value	GENEPIO:0101014	The numerical value of the time measurement during which a sample is in storage.	Provide the numerical value of time.	5		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host
										HPAI;HPAI_Fo
Sample collection and processing	sample_storage_duration_unit	GENEPIO:0101015	The units of a measured sample storage duration.	Provide the units from the pick list.	Day		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
	sample_storage_utration_utilit		Any processing applied to the sample during or after receiving the	Select processes from the picklist that were						HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing	specimen_processing	GENEPIO:0001253	sample.	applied to this sample.	Centrifugation 25 samples		1.0.0	1.0.0	1.0.0	PAI_Host
Sample collection and processing	specimen_processing_details	GENEPIO:0100311	The details of the processing applied to the sample during or after receiving the sample.	Briefly describe the processes applied to the sample.	were pooled and further prepared as a single sample during library prep.		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host
Sample collection and processing	experimental protocol	GENEPIO:0101029	The name of the overarching experimental methodology that was used to process the biomaterial.	Provide the name of the methodology used in your study. If available, provide a link to the protocol.			1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host
				Samples can play different types of roles in experiments. A sample under study in one experiments may act as a control or be a replicate of another sample in another experiment. This field is used to distinguish samples under study from controls, replicates, etc. If the sample sacted sa are experimental control or a replicate, select a role type from the picklist. If the sample was not a control, leave blank or select 'Not reserve the control, leave blank or select 'Not	Positive experimental					HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing	experimental_specimen_role_type	GENEPIO:0100921	The type of role that the sample represents in the experiment.	Applicable".	control		1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPAI Fo
Sample collection and processing	experimental_specimen_details	GENEPIO:0101112					1.0.0	1.0.0	1.0.0	od;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host
				This field provides information about additional data types that are available that may provide context for interpretation of the sequence data. Provide a term from the picklist for additional data types that are available. Additional data	Total coliform count					HPAI;HPAI_Fo od;HPAI_WW;
Sample collection and processing	available_data_types	GENEPIO:0100690	The type of data that is available, that may or may not require permission to access.	types may require special permission to access. Contact the data provider for more information.	[GENEPIO:010 0729]		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host

Parent Class	Field	Ontology Identifier	Definition	Guidance	Examples	Deprecated Label Deprecated ID	Version Tracking		Edi	tor Notes
Parent Class	Field	Identifier	Definition	Guidance	Pooled Pooled		Hacking			Subset
					metagenomes containing					
					extended					HPAI:HPAI Fo
				Use this field to provide free text details describing other available data types that may	spectrum beta-lactamase					d;HPAI;HPAI_Fo
Sample collection and processing	available_data_type_details	GENEPIO:0101023	Detailed information regarding other available data types.	provide context for interpreting genomic sequence data.	(ESBL) bacteria		100	100	100	HPAI_Enviro;H PAI_Host
cample collection and processing			Detailed information regarding outer available data types.	sequence data.	Dactoria		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Ho
	Host information	GENEPIO:0001268			Cow					st
					[NCBITaxon:99					
				If the sample is directly from a host, either a	13]; Chicken [NCBITaxon:99					
				common or scientific name must be provided (although both can be included, if known). If	13], Human [NCBITaxon:96					HPAI;HPAI_Ho
Host information	host_(common_name)	GENEPIO:0001386	The commonly used name of the host.	known, provide the common name.	06]		1.0.0	1.0.0	1.0.0	st nFAI,HFAI_H0
				If the sample is directly from a host, either a	Bos taurus INCBITaxon:99					
				common or scientific name must be provided	13]; Homo					
				(although both can be included, if known). If known, select the scientific name from the	sapiens [NCBITaxon:91					HPAI;HPAI_Ho
Host information	host_(scientific_name)	GENEPIO:0001387	The taxonomic, or scientific name of the host.	picklist provided.	03]					st
Host information	host_(ecotype)	GENEPIO:0100450	The biotype resulting from selection in a particular habitat, e.g. the A. thaliana Ecotype Ler.	Provide the name of the ecotype of the host organism.	Sea ecotype		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
			A breed is a specific group of domestic animals or plants having homogeneous appearance, homogeneous behavior, and other							
L			characteristics that distinguish it from other animals or plants of the	Provide the name of the breed of the host						
Host information	host_(breed)	GENEPIO:0100451	same species and that were arrived at through selective breeding.	organism.	Holstein Calf		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
			The name of the host at a certain stage of food production, which may	Select the host's food production name from the	[FOODON:034					
Host information	host_(food production name)	GENEPIO:0100452	depend on its age or stage of sexual maturity.	pick list. If known, provide age. Age-binning is also	11349]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
Host Information	host_age	GENEPIO:0001392	Age of host at the time of sampling.	acceptable.	79		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
Host Information	host age unit	GENEPIO:0001393	The units used to measure the host's age.	If known, provide the age units used to measure the host's age from the pick list.	year [UO:0000036]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
			Ů	Select the corresponding host age bin from the						· -
Host information	host_age_bin	GENEPIO:0001394	Age of host at the time of sampling, expressed as an age group.	pick list provided in the template. If not available, provide a null value or leave blank.			1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
	host_gender						1.0.0	1.0.0	1.0.0	
				This field is only required if the Pathogen.cl package was selected. If the host was sick,						
				provide the name of the disease. The						
				standardized term can be sourced from this look-up service:						
Host information	host_disease	GENEPIO:0001391	The name of the disease experienced by the host.	https://www.ebi.ac.uk/ols/ontologies/doid If the disease is not known, put "missing".	mastitis, gastroenteritis		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
					Asymptomatic					
Host Information	host_health_state	GENEPIO:0001388	Health status of the host at the time of sample collection.	If known, select a value from the pick list.	[NCIT:C3833] Hospitalized		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
					(ICU)					
Host Information	host_health_status_details	GENEPIO:0001389	Further details pertaining to the health or disease status of the host at time of collection.	If known, select a value from the pick list.	[GENEPIO:010 0046]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
					Recovered					
Host Information	host_health_outcome	GENEPIO:0001390	Disease outcome in the host.	If known, select a value from the pick list. Should be a unique, user-defined identifier. This	[NCIT:C49498]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				ID can help link laboratory data with epidemiological data, however, is likely sensitive						
Host Information	host_subject_ID	GENEPIO:0001398	A unique identifier by which each host can be referred to e.g. #131	information. Consult the data steward.	BCxy123		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				Provide the case identifer. The case ID greatly facilitates linkage between laboratory and						
				epidemiological data. The case ID may be						
Host Information	case_ID	GENEPIO:0100281	The identifier used to specify an epidemiologically detected case of disease.	considered identifiable information. Consult the data steward before sharing.	ABCD1234		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
Host Information	numntern enset date	GENEPIO:0001399	The date on which the symptoms began or were first	If known, provide the symptom onset date in ISO 8601 standard format "YYYY-MM-DD".	2020-03-16		100	100	100	HPAI;HPAI Host
riost illiottilation	symptom_onset_date	GENEPIO:0001399	The date on which the symptoms began or were first noted.	OUU I Standard IOITHAL TTTT-MIM-DD".	Cough		1.0.0	1.0.0	1.0.0	nrai;nrai_Host
					[HP:0012735], Fever					
					[HP:0001945],					
			A perceived change in function or sensation, (loss, disturbance or	Select all of the symptoms experienced by the	Rigors (fever shakes)					
Host Information	signs_and_symptoms	GENEPIO:0001400	appearance) indicative of a disease, reported by a patient.	host from the pick list.	[HP:0025145]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
			Patient pre-existing conditions and risk factors. Pre-existing condition: A medical condition that existed prior to the	Select all of the pre-existing conditions and risk						
			current infection. Risk Factor: A variable associated with an increased risk of disease or	factors experienced by the host from the pick list	Asthma					
Host Information	pre-existing_conditions_and_risk_factors	GENEPIO:0001401	infection.	curation team.	[HP:0002099]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
					Acute respiratory					
			Patient medical complications that are believed to have assured	Select all of the complications experienced by	failure					
Host Information	complications	GENEPIO:0001402	Patient medical complications that are believed to have occurred as a result of host disease.	Select all of the complications experienced by the host from the pick list.	[MONDO:0001 208]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
	Host exposure information	GENEPIO:0001409		10						HPAI;HPAI_Hos
				Select an exposure event from the pick list provided in the template. If the desired term is	Social					
Host exposure information	exposure event	GENEPIO:0001417	Event leading to exposure.	missing, contact the curation team.	Gathering		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host

Parent Class	Field	Ontology Identifier	Definition	Guidance	Evameles	Deprecated Label Deprecated ID	Version Tracking		Editor Not	es
Parent Class	Field	Identifier	Definition	Select direct or indirect exposure from the	Examples		Hacking			Subset
Host exposure information	exposure contact level	GENEPIO:0001418	The exposure transmission contact type.	pick-list.	Direct		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				Select the host's personal role(s) from the pick list provided in the template. If the desired term						
Host exposure information	host role	GENEPIO:0001419	The role of the host in relation to the exposure setting.	is missing, contact the curation team.	Inpatient		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				Select the host exposure setting(s) from the pick list provided in the template. If a desired term is	Healthcare					
Host exposure information	exposure setting	GENEPIO:0001428	The setting leading to exposure.	missing, contact the curation team.	Setting		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
Host exposure information	exposure details	GENEPIO:0001431	Additional host exposure information.	Free text description of the exposure.	Case infected family at home		100	100	100	HPAI:HPAI Host
	Host vaccination information	GENEPIO:0001403			,					HPAI;HPAI_Hos
					Fully Vaccinated					
			The vaccination status of the host (fully vaccinated, partially vaccinated	, Select the vaccination status of the host from the	[GENEPIO:010					
Host vaccination information	host_vaccination_status	GENEPIO:0001404	or not vaccinated).	pick list.	0100]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
Host vaccination information	number_of_vaccine_doses_received	GENEPIO:0001406	The number of doses of the vaccine recived by the host.	Record how many doses of the vaccine the host has received.	2		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				Provide the name and the corresponding						
			The name of the vaccine administered as the first dose of a vaccine	manufacturer of the COVID-19 vaccine administered as the first dose by selecting a	Pfizer-BioNTec					
Host vaccination information	vaccination_dose_1_vaccine_name	GENEPIO:0100313	regimen.	value from the pick list	h (Comirnaty)		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				Provide the date the first dose of COVID-19 vaccine was administered. The date should be						
Host vaccination information	vaccination does 1 vaccination data	GENEPIO:0100314	The date the first dose of a vaccine was administered.	provided in ISO 8601 standard format	2021-03-01		1.0.0	1.0.0	1.0.0	HPAI:HPAI Host
nost vaccination information	vaccination_dose_1_vaccination_date	GENEFIO:0100314	THE date die list dose of a vaccine was administered.	Provide the name and the corresponding	2021-03-01		1.0.0	1.0.0	1.0.0	FIFAI, FIFAI_FIOST
			The same of the consistency of the same of the consistency of the cons	manufacturer of the COVID-19 vaccine	D6 D: NT					
Host vaccination information	vaccination_dose_2_vaccine_name	GENEPIO:0100315	The name of the vaccine administered as the second dose of a vaccine regimen.	administered as the second dose by selecting a value from the pick list	h (Comirnaty)		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				Provide the date the second dose of COVID-19	, ,,					
				vaccine was administered. The date should be provided in ISO 8601 standard format						
Host vaccination information	vaccination_dose_2_vaccination_date	GENEPIO:0100316	The date the second dose of a vaccine was administered.	"YYYY-MM-DD".	2021-09-01		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				Free text description of the dates and vaccines	Pfizer-BioNTec h (Comirnaty);					
				administered against a particular disease/set of	2021-03-01;					
			A description of the vaccines received and the administration dates of a	diseases. It is also acceptable to concatenate the individual dose information (vaccine name.	Pfizer-BioNTec h (Comirnaty);					
Host vaccination information	vaccination history	GENEPIO:0100321	series of vaccinations against a specific disease or a set of diseases.	vaccination date) separated by semicolons.	2022-01-15		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
	Host treatment information						1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
					Influenza antiviral					
					treatment administered					
			An action of giving or applying an influenza antiviral agent to a patient		[GENEPIO:010					
Host treatment information	influenza_antiviral_treatment_administration	GENEPIO:0101113	as part of a treatment regimen.		1194]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
Host treatment information	influenza_antiviral_agent	GENEPIO:0101114	A substance that destroys or inhibits replication of viruses.	This field records the exact date when the			1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
				antiviral treatment was administered. The date						
				should be provided in a standard format (e.g., YYYY-MM-DD) and reflect the first						
			The date on which the influenza antiviral agent was administered to a	administration date if multiple doses were given.						
Host treatment information	influenza_antiviral_treatment_date	GENEPIO:0101115	patient as part of treatment				1.0.0	1.0.0	1.0.0	HPAI;HPAI_Host
	Environmental conditions and measurements									HPAI;HPAI_WW;
Environmental conditions and measurements	water_catchment_area_human_population_measurement_value	GENEPIO:0100773	The numerical value of the human population measurement that contributes to the composition of water in a catchment area.	Where known, provide the numerical value of population size, i.e. the number of people.	10,500		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
				Where catchment population is not well known,						
Environmental conditions and measurements	water_catchment_area_human_population_range	GENEPIO:0100774	The human population range of the water catchment that contributes effluent to a wastewater site.	provide an estimation of population size by selecting a value from the picklist.	1,000 - 10,000 people		1.0.0	1.0.0	1.0.0	HPAI;HPAI WW;
	population_range			g = are promote	population of					
					jurisdiction encompassing					
Environmental conditions and		CENEDIO 0400775	The method by which a water catchment 's human population size was		the wastewater		1.0.0	1.0.0	1.0.0	HPAI;HPAI WW;
measurements Environmental conditions and	water_catchment_area_human_population_measurement_method	GENEPIO:0100775	measured or estimated The numerical value describing the number of humans per geographica	population size was measured or estimated. I Provide the numerical value of the population	service area		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
measurements	water catchment area human population density value	GENEPIO:0100776	area in a water catchment.	density in the catchement area.	4		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	water catchment area human population density unit	GENEPIO:0100777	The unit describing the number of humans per geographical area in a water catchment.	Provide the unit of the population density in the catchement area.	persons per Km^2		1.0.0	1.0.0	1.0.0	HPAI;HPAI WW;
Environmental conditions and	nator satorment area numan population density diffit			Provide the populated area type from the pick						
measurements	populated area type	GENEPIO:0100778	A type of area that is populated by humans to different degrees.	list.	Urban area		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	sampling weather conditions	GENEPIO:0100779	The state of the atmosphere at a place and time as regards heat, drvness, sunshine, wind, rain, etc.	Provide the weather conditions at the time of sample collection.	Rain		1.0.0	1.0.0	1.0.0	HPAI:HPAI WW:
Environmental conditions and	. 3			Provide the weather conditions prior to sample						,
measurements Environmental conditions and	presampling weather conditions	GENEPIO:0100780	Weather conditions prior to collection that may affect the sample.	collection. Provide the quantity of precipitation in the area	Drizzle		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	precipitation measurement value	GENEPIO:0100911	The amount of water which has fallen during a precipitation process.	Provide the quantity of precipitation in the area leading up to the time of sample collection.	12		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and				Provide the numerical depth only of water only						
measurements Environmental conditions and	water_depth	GENEPIO:0100440	The depth of some water.	(without units). Provide the units of measurement for which the	meter (m)		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
measurements	water_depth_units	GENEPIO:0101025	The units of measurement for water depth.	depth was recorded.	[UO:0000008]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and	sediment depth	GENEPIO:0100697	The depth of some sediment.	Provide the numerical depth only of the sedimen (without units).	t		1.0.0	1.0.0	1.0.0	HPAI;HPAI WW;
measurements Environmental conditions and	seument_deptri	GENEPIO:0100697	me deput of some sediment.	(without units). Provide the units of measurement for which the	meter (m)		1.0.0	1.0.0	1.0.0	
measurements	sediment_depth_units	GENEPIO:0101026	The units of measurement for sediment depth.	depth was recorded.	[UO:0000008]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;

		Ontology				Deprecated Label Deprecated ID	Version		Editor Notes	
Parent Class	Field	Identifier	Definition	Guidance	Examples		Tracking			Subset
Environmental conditions and measurements	air temperature	GENEPIO:0100441	The temperature of some air.	Provide the numerical value for the temperature of the air (without units).	2	5	1.0.0	1.0.0	1.0.0	HPAI;HPAI WW;
	all_comporatoro	CENEL 10.0100441	The temperature of come and	,	degree Celsius	5	1.0.0	1.0.0	1.0.0	
Environmental conditions and measurements	air temperature units	GENEPIO:0101027	The units of measurement for air temperature.	Provide the units of measurement for which the temperature was recorded.	(C) [UO:0000027]		1.0.0	1.0.0	1.0.0	HPAI;HPAI WW;
Environmental conditions and	all_competatore_units	GENELI IO.0101027	The units of measurement for all temperature.	Provide the numerical value for the temperature	[00.000027]		1.0.0	1.0.0	1.0.0	Til Al, Til Al_WW,
measurements	water_temperature	GENEPIO:0100698	The temperature of some water.	of the water (without units).		4	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and				Provide the units of measurement for which the	degree Celsius (C)	5				
measurements	water_temperature_units	GENEPIO:0101028	The units of measurement for water temperature.	temperature was recorded.	[UO:0000027]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and			The state of the atmosphere at a place and time as regards heat.	Provide the weather conditions at the time of	Rain IENVO:010015	5				
measurements	weather_type	GENEPIO:0100442	dryness, sunshine, wind, rain, etc.	sample collection.	64]		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	precipitation measurement unit	GENEPIO:0100912	The units of measurement for the amount of water which has fallen during a precipitation process.	Provide the units of precipitation by selecting a value from the pick list.	inch		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
				·	Rain gauge					
					over a 12 hour period prior to					
Environmental conditions and			The process used to measure the amount of water which has fallen	Provide the name of the procedure or method	sample					
measurements Environmental conditions and	precipitation measurement method	GENEPIO:0100913	during a precipitation process.	used to measure precipitation. Provide the numerical value of the measured	collection		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW
measurements	ambient temperature measurement value	GENEPIO:0100935	The numerical value of a measurement of the ambient temperature.	temperature.	7	0	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	ambient temperature measurement unit	GENEPIO:0100936	The units of a measurement of the ambient temperature.	Provide the units of the measured temperature.	degree Celsius (C)	5	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and	ambient competation measurement unit	SE-1E1 10.0100000	The measured pH value indicating the acidity or basicity(alkalinity) of an		(0)		1.0.0	1.0.0	1.0.0	Al, II ALWW,
measurements	pH measurement value	GENEPIO:0001736	aqueous solution.	Provide the numerical value of the measured pH		4	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	pH measurement method	GENEPIO:0100781	The process used to measure pH value.	Provide the name of the procedure or technologused to measure pH.	pH test strip (litmus test)		1.0.0	1.0.0	1.0.0	HPAI:HPAI WW:
Environmental conditions and			The numerical value of a measured fluid flow rate over the course of a	Provide the numerical value of the measured	· /					
measurements	total daily flow rate measurement value	GENEPIO:0100905	day.	flow rate.	1	0	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	total daily flow rate measurement unit	GENEPIO:0100906	The units of a measured fluid flow rate over the course of a day.	Provide the units of the measured flow rate by selecting a value from the pick list.	million gallons per day (MGD)	,	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and				Provide the name of the procedure or technolog	/ Flow meter					T
measurements Environmental conditions and	total daily flow rate measurement method	GENEPIO:0100907	The process used to measure total daily fluid flow rate.	used to measure flow rate. Provide the numerical value of the measured	Flow meter		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
measurements	instantaneous flow rate measurement value	GENEPIO:0100908	The numerical value of a measured instantaneous fluid flow rate.	flow rate.	2	5	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	instantaneous flow rate measurement unit	GENEPIO:0100909	The units of a measured instantaneous fluid flow rate.	Provide the units of the measured flow rate by selecting a value from the pick list.	cubic meter pe	r	1.0.0	1.0.0	1.0.0	HPAI;HPAI WW;
Environmental conditions and	instantaneous now rate measurement unit	GENEFIO.0100909	The units of a measured installitations fluid flow rate.	Provide the name of the procedure or technology			1.0.0	1.0.0	1.0.0	HEAI,HEAI_WW,
measurements	instantaneous flow rate measurement method	GENEPIO:0100910	The process used to measure instantaneous fluid flow rate.	used to measure flow rate.	Flow meter		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	turbidity measurement value	GENEPIO:0100783	The numerical value of a measurement of turbidity.	Provide the numerical value of the measured turbidity.	0.0	2	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
	•				nephelometric					
Environmental conditions and measurements	turbidity measurement unit	GENEPIO:0100914	The units of a measurement of turbidity.	Provide the units of the measured turbidity by selecting a value from the pick list.	turbidity unit (NTU)		1.0.0	1.0.0	1.0.0	HPAI;HPAI WW;
Environmental conditions and	tarbuty modulation and		The unit of a measurement of tarbiany.	Provide the name of the procedure or technology						
measurements	turbidity measurement method	GENEPIO:0101013	The process used to measure turbidity.	used to measure turbidity.	method		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	dissolved oxygen measurement value	GENEPIO:0100915	The numerical value of a measurement of dissolved oxygen.	Provide the numerical value of the measured dissolved oxygen.		5	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and				Provide the units of the measured dissolved	part per million					T
measurements	dissolved oxygen measurement unit	GENEPIO:0100784	The units of a measurement of dissolved oxygen.	oxygen by selecting a value from the pick list.	(ppm) Dissolved		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
					oxygen meter					
Environmental conditions and measurements	dissolved oxygen measurement method	GENEPIO:0100785	The method used to measure dissolved oxygen.	Provide the name of the procedure or technologused to measure dissolved oxygen.	y in vertical direction		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and			The numerical value of a measurement of oxygen reduction potential	Provide the numerical value of the measured						
measurements	oxygen reduction potential (ORP) measurement value	GENEPIO:0100917	(ORP).	oxygen reduction potential. Provide the units of the measured oxygen	-5	0	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and				reduction potential by selecting a value from the			1	1		
measurements Environmental conditions and	oxygen reduction potential (ORP) measurement unit	GENEPIO:0100786	The units of a measurement of oxygen reduction potential (ORP).	pick list. Provide the name of the procedure or technology	milliVolt (mV)		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
measurements	oxygen reduction potential (ORP) measurement method	GENEPIO:0100787	The method used to measure oxygen reduction potential (ORP).	used to measure oxygen reduction potential.	ORP sensor		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	shamical assuran demand (COD) massurament value	CENEDIO:0100700	The measured value from a chemical everan demand (CCD) 44	Provide the numerical value of the COD test	2	e	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and	chemical oxygen demand (COD) measurement value	GENEPIO:0100788	The measured value from a chemical oxygen demand (COD) test. The units associated with a value from a chemical oxygen demand	result.	milligram per	O .	1.0.0	1.0.0	1.0.0	nPAI; NPAI_WW;
measurements	chemical oxygen demand (COD) measurement unit	GENEPIO:0100789	(COD) test.	Provide the units of the COD test result.	liter (mg/L)		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	chemical oxygen demand (COD) measurement method	GENEPIO:0100790	The method used to measure chemical oxygen demand (COD).	Provide the name of the procedure or technologused to measure COD.	Hach LCK test kit		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and	carbonaceous biochemical oxygen demand (CBOD) measurement		The numerical value of a measurement of carbonaceous biochemical	Provide the numerical value of the measured						
measurements	value	GENEPIO:0100791	oxygen demand (CBOD).	CBOD.	2	0	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	carbonaceous biochemical oxygen demand (CBOD) measurement unit	GENEPIO:0100792	The units of a measurement of carbonaceous biochemical oxygen demand (CBOD).	Provide the units of the measured CBOD by selecting a value from the pick list.	milligram per liter (mg/L)		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
					CBOD					
Environmental conditions and	carbonaceous biochemical oxygen demand (CBOD) measurement		The method used to measure carbonaceous biochemical oxygen	Provide the name of the procedure or technology	measurement by optical					
measurements	method	GENEPIO:0100793	demand (CBOD).	used to measure CBOD.	probe		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and measurements	total suspended solids (TSS) measurement value	GENEPIO:0100794	The numerical value from a total suspended solids (TSS) test.	Provide the numerical value of the measured TSS.		8	1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;
Environmental conditions and			The units associated with a value from a total suspended solids (TSS)							
measurements	total suspended solids (TSS) measurement unit	GENEPIO:0100795	test.	Provide the units of the measured TSS.	percent (%)		1.0.0	1.0.0	1.0.0	HPAI;HPAI_WW;

Parent Class	Field	Ontology Identifier	Definition	Guidance	Deprecated Label Deprecated Examples	D Version Tracking		Ed	itor Notes	Subset
r drent Glass	rest	identifici	Seminton	Curaince	Vacuum filter through a 2-micron filter, then oven-dried					Subset
Environmental conditions and measurements	total suspended solids (TSS) measurement method	GENEPIO:0100796	The method used to measure total suspended solids (TSS).	Provide the name of the procedure or technology used to measure TSS.		1.0.0	1.0.0	1.0.0		HPAI;HPAI WW;
Environmental conditions and measurements	total dissolved solids (TDS) measurement value	GENEPIO:0100797	The numerical value from a total dissolved solids (TDS) test.	Provide the numerical value of the measured TDS	2	1.0.0	1.0.0	1.0.0		HPAI:HPAI WW:
Environmental conditions and			The units associated with a value from a total dissolved solids (TDS)		_					
measurements	total dissolved solids (TDS) measurement unit	GENEPIO:0100798	test.	Provide the units of the measured TDS.	percent (%) Subtract calculated TSS	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements Environmental conditions and	total dissolved solids (TDS) measurement method	GENEPIO:0100799	The method used to measure total dissolved solids (TDS).	Provide the name of the procedure or technology used to measure TDS.	from calculated TS	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
measurements Environmental conditions and	total solids (TS) measurement value	GENEPIO:0100800	The numerical value from a total solids (TS) test.	Provide the numerical value of the measured TS.	10	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
measurements	total solids (TS) measurement unit	GENEPIO:0100801	The units associated with a value from a total solids (TS) test.	Provide the units of the measured TS.	percent (%)	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements	total solids (TS) measurement method	GENEPIO:0100802	The method used to measure total solids (TS).	Provide the name of the procedure or technology used to measure TS.	Gravimetric method by oven drying, then weighing	1.0.0	1.0.0	1.0.0		HPAI;HPAI WW;
Environmental conditions and measurements			The consideration of a second of the limit.	Provide the numerical value of the measured		100	100			
measurements	alkalinity measurement value	GENEPIO:0100878	The numerical value of a measurement of alkalinity.	alkalinity.	milligram per	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements	alkalinity measurement unit	GENEPIO:0100879	The units of a measurement of alkalinity.	Provide the units of the measured alkalinity.	liter of calcium carbonate (mg/L CaCO3)	1.0.0	1.0.0	1.0.0	1	HPAI;HPAI_WW;
Environmental conditions and measurements	alkalinity measurement method	GENEPIO:0100880	The process used to measure alkalinity.	Provide the name of the procedure or technology used to measure alkalinity.	Titration method	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and				Provide the numerical value of the measured						
measurements Environmental conditions and	conductivity measurement value	GENEPIO:0100916	The numerical value of a measurement of conductivity.	conductivity.	1412 microSiemen per centimeter	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
measurements	conductivity measurement unit	GENEPIO:0100803	The units of a measurement of conductivity.	Provide the units of the measured conductivity.	(µS/cm) Conductivity	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements Environmental conditions and	conductivity measurement method	GENEPIO:0100804	The method used to measure conductivity.	Provide the name of the procedure or technology used to measure conductivity. Provide the numerical value of the measured	electrode and meter	1.0.0	1.0.0	1.0.0	ı	HPAI;HPAI_WW;
measurements	salinity measurement value	GENEPIO:0100805	The numerical value of a measurement of salinity.	salinity.	35	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements		0545510 040000			practical salinity unit (PSU)	1.0.0				
Environmental conditions and	salinity measurement unit	GENEPIO:0100806	The units of a measurement of salinity.	Provide the units of the measured salinity. Provide the name of the procedure or technology	conductivity		1.0.0	1.0.0		HPAI;HPAI_WW;
measurements Environmental conditions and	salinity measurement method	GENEPIO:0100807	The method used to measure salinity.	used to measure salinity. Provide the numerical value of the measured	meter	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
measurements Environmental conditions and	total nitrogen (TN) measurement value	GENEPIO:0100808	The numerical value of a measurement of total nitrogen (TN).	TN.	120	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
measurements	total nitrogen (TN) measurement unit	GENEPIO:0100809	The units of a measurement of total nitrogen (TN).	Provide the units of the measured TN.	milligram per liter (mg/L)	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and				Provide the name of the procedure or technology	Hach total nitrogen spectrophotom					
measurements Environmental conditions and	total nitrogen (TN) measurement method	GENEPIO:0100810	The method used to measure total nitrogen (TN).	used to measure TN.	etric test	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
measurements	total phosphorus (TP) measurement value	GENEPIO:0100811	The numerical value of a measurement of total phosphorus (TP).	Provide the numerical value of the measured TP.	2 milligrams orthophosphate	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements	total phosphorus (TP) measurement unit	GENEPIO:0100812	The units of a measurement of total phosphorus (TP).	Provide the units of the measured TP	as phosphorus per liter (mg PO4-P/L)	100	100	100		HPAI;HPAI WW;
modulomona	om prospriores (11) measurement unit	OLINEFIO.0100012	The diffic of a measurement of total phosphorus (1F).	. Tortue the units of the Illedstrett IF.	Merck	1.0.0	1.0.0	1.0.0		OI,I II AI_YYVV,
Environmental conditions and				Provide the name of the procedure or technology						
measurements Environmental conditions and	total phosphorus (TP) measurement method	GENEPIO:0100813	The method used to measure total phosphorus (TP). A gene, virus, bacteria, or substance used to measure the sanitary	used to measure TP. If a fecal contamination indicator was measured.	etric test kit	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
measurements Environmental conditions and	fecal contamination indicator	GENEPIO:0100814	quality of water in regards to fecal contamination.	select it from the picklist. Provide the numerical value of the measured	crAssphage	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements	fecal contamination value	GENEPIO:0100815	The numerical value of a measurement of fecal contamination.	Provide the numerical value of the measured fecal contamination.	10 cycle threshold	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements	fecal contamination unit	GENEPIO:0100816	The units of a measurement of fecal contamination.	Provide the units of the measured fecal contamination.	(Ct) / quantification cycle (Cq)	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements	fecal contamination method	GENEPIO:0100817	The method used to measure fecal contamination.	Provide the name of the procedure or technology used to measure fecal contamination.	v quantitative PCR assay	1.0.0	1.0.0	1.0.0		HPAI;HPAI WW;
Environmental conditions and measurements	fecal coliform count value	GENEPIO:0100818	The numerical value of a measurement of fecal coliforms within a sample.	Provide the numerical value of the measured fecal coliforms.	3	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and	County Turks	CENE 15.5 150010		Provide the units of the measured fecal	most probable number per milliliter	1.0.0	1.0.0	1.0.0		
measurements	fecal coliform count unit	GENEPIO:0100819	The units of a measurement of fecal coliforms.	coliforms.	(MPN/mL)	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and measurements	fecal coliform count method	GENEPIO:0100820	The method used to measure fecal coliforms.	Provide the name of the procedure or technology used to measure fecal coliforms.	MPN method via serial dilutions until lack of growth	1.0.0	1.0.0	1.0.0		HPAI;HPAI_WW;
Environmental conditions and			A gene, virus, bacteria, or substance used to measure the sanitary	If a urinary contamination indicator was	-		1			

		Ontology	_		Deprecated L	abel Deprecated ID Version			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	Tracking			Subset
Environmental conditions and measurements	urinary contamination value	GENEPIO:0100838	The numerical value of a measurement of urinary contamination.	Provide the numerical value of the measured urinary contamination.	3	1.0.0	1.0.0	1.0.0	HPAI;HPAI_W
Environmental conditions and measurements	urinary contamination unit	GENEPIO:0100839	The units of a measurement of urinary contamination.	Provide the units of the measured urinary contamination.	nanograms per liter	1.0.0	1.0.0	1.0.0	HPAI;HPAI W
Environmental conditions and measurements	urinary contamination method	GENEPIO:0100840	The method used to measure urinary contamination.	Provide the name of the procedure or technolog used to measure urinary contamination.	Urobilin Concentration Test	1.0.0	1.0.0	1.0.0	HPAI;HPAI_W
Environmental conditions and measurements	sample temperature value (at collection)	GENEPIO:0100821	The numerical value of a measurement of temperature of a sample at collection.	Provide the numerical value of the measured temperature.	20	1.0.0	1.0.0	1.0.0	HPAI;HPAI_W
Environmental conditions and measurements	sample temperature unit (at collection)	GENEPIO:0100822	The units of a measurement of temperature of a sample at the time of collection.	Provide the units of the measured temperature.	degree Celsius (C)	1.0.0	1.0.0	1.0.0	HPAI;HPAI_W
Environmental conditions and measurements	sample temperature value (when received)	GENEPIO:0100823	The numerical value of a measurement of temperature of a sample upon receipt.	Provide the numerical value of the measured temperature.	22	1.0.0	1.0.0	1.0.0	HPAI;HPAI W
Environmental conditions and measurements	sample temperature unit (when received)	GENEPIO:0100824	The units of a measurement of temperature of a sample at the time upon receipt.	Provide the units of the measured temperature.	degree Celsius (C)	1.0.0	1.0.0	1.0.0	HPAI:HPAI W
	Sequence information	GENEPIO:0001441		9	1.7				HPAI;HPAI_Fo
Sequence information	library_ID	GENEPIO:0001448	The user-specified identifier for the library prepared for sequencing.	Every "library ID" from a single submitter must be unique. It can have any format, but we suggest that you make it concise, unique and consistent within your lab, and as informative as possible		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo
Sequence information	iiblaiy_ib	GENET 10.0001440	The user-specimed identifier for the library prepared for sequencing.	Example Guidance: Provide the name of the DNA or RNA sequencing technology used in	whole genome sequencing	1.0.0	1.0.0	1.0.0	(II AI, III AI_)
Sequence information	sequencing_assay_type	GENEPIO:0100997	The overarching sequencing methodology that was used to determine the sequence of a biomaterial.	your study. If unsure refer to the protocol documentation, or provide a null value.	assay [OBI:0002117]	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo
Sequence information	sequencing_date	GENEPIO:0001447	The date the sample was sequenced.	ISO 8601 standard "YYYY-MM-DD".	2020-06-22	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo
Sequence information	purpose_of_sequencing	GENEPIO:0001445	The reason that the sample was sequenced.	The reason why a sample was originally collected may differ from the reason why it was selected for sequencing. The reason a sample was sequenced may provide information about potential biases in sequencing strategy. Provide the purpose of sequencing from the picklist in the template. The reason for sample collection should be indicated in the "purpose of sampling field.	3	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo
Sequence information	purpose_of_sequencing_details	GENEPIO:0001446	The description of why the sample was sequenced providing specific details.	Provide an expanded description of why the sample was sequenced using free text. The description may include the importance of the sequences for a particular public health investigation/surveillance activity/research question. Suggested standardized descriptions include: Assessing public health control measures, Determining early introductions and spread, Investigating artine-related exposures, Investigating artine-related exposures, investigating periods regions, Investigating health care workers, Investigating schools/universities.	Investigating schools/univers ities	1.0.0	1.0.0	1.0.0	HPALHPAL FO od:HPAL WW; HPAL Enviro.H PAL Host
Sequence information	sequenced by	GENEPIO:0100416	The name of the agency, organization or institution responsible for sequencing the isolate's genome.	Provide the name of the agency, organization or institution that performed the sequencing in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a null value.	Canada (PHAC)	100	100	100	HPAI;HPAI_Fc od;HPAI_WW; HPAI_Enviro;H PAI_Host
Sequence information	sequenced_by_laboratory_name	GENEPIO:0100470	The specific laboratory affiliation of the responsible for sequencing the isolate's genome.	Provide the name of the specific laboratory that that performed the sequencing in full (avoid abbreviations). If the information is unknown or cannot be provided, leave blank or provide a nu value.	1	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od:HPAI_WW; HPAI_Enviro:H PAI_Host
Sequence information	sequenced by contact name	GENEPIO:0100471	The name or title of the contact responsible for follow-up regarding the sequence.	Provide the name of an individual or their job title. As personnel turnover may render the contact's name obsolete, it is more prefereable to provide a job title for ensuring accuracy of information and institutional memory. If the information is unknown or cannot be provided, leave blank or provide a null value.	Enterics Lab Manager	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_VWV; HPAI_Enviro;H PAI_Host
Sequence information	sequenced_by_contact_email	GENEPIO:0100422	The email address of the contact responsible for follow-up regarding th sequence.	Provide the email associated with the listed contact. As personnel turnover may render an individual's email obsolete, it is more prefereabl to provide an address for a position or lab, to ensure accuracy of information and institutional	ot enterics@lab.c	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host
Sequence information	sequence_submitted_by	GENEPIO:0001159	The name of the agency that submitted the sequence to a database.	The name of the agency should be written out ir full, (with minor exceptions) and be consistent across multiple submissions. For Canadian institutions submitting specimens rather than sequencing data, please put the "National Microbiology Laboratory (MML)".		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fc od;HPAI_WV; HPAI_Enviro;H PAI_Host
Sequence information	sequence_submitter_contact_email	GENEPIO:0001165	The email address of the contact responsible for follow-up regarding the sequence.		RespLab@lab.	1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host

		Ontology			Deprecated Label Deprecat	ed ID Version Tracking			Editor Notes	
Parent Class	Field	Identifier	Definition	Guidance	Examples Direct	Tracking				Subset
					wastewater RNA capture					
					and purification					
					via the "Sewage, Salt,					
					Silica and					
					SARS-CoV-2 (4S)" method					
					v4 found at					
					https://www.pro tocols.io/view/v					
					-4-direct-waste water-ma-captu					HPAI;HPAI_Fo
					re-and-purificati					od;HPAI_WW;
Sample collection and processing	nucleic_acid_extraction_method	GENEPIO:0100939	The process used to extract genomic material from a sample.	Briefly describe the extraction method used.	on-36wgq581y gk5/v4	1.0.0	1.0.0	1.0.0		HPAI_Enviro;H PAI_Host
			·	,						HPAI;HPAI_Fo
				Provide the name of the genomic extraction kit	QIAamp PowerFecal					od;HPAI_WW; HPAI_Enviro;H
Sample collection and processing	nucleic_acid_extraction_kit	GENEPIO:0100772	The kit used to extract genomic material from a sample	used.	Pro DNA Kit	1.0.0	1.0.0	1.0.0		PAI_Host
				Provide the names of endogenous controls that were used as a reference during extraction. If						HPAI;HPAI_Fo
				relevant, include titers of these controls, as well						od;HPAI_WW;
Sample collection and processing	endogenous control details	GENEPIO:0100923	The description of the endogenous controls included when extracting a sample.	as whether any controls were expected but not identified in the sample.		1.0.0	1.0.0	1.0.0		HPAI_Enviro;H PAI_Host
	-			Provide the name of the project and/or the						HPAI;HPAI_Fo
			The name of the project/initiative/program for which sequencing was	project ID here. If the information is unknown or cannot be provided, leave blank or provide a nul	I AMR-GRDI					od;HPAI_WW; HPAI_Enviro;H
Sequence information	sequencing_project_name	GENEPIO:0100472	performed.	value.	(PA-1356)	1.0.0	1.0.0	1.0.0		PAI_Host
				Provide the name of the company that created the sequencing instrument by selecting a value						HPAI;HPAI Fo
				from the template pick list. If the information is	Illumina IGENEPIO:000					od;HPAI_WW; HPAI_Enviro;H
Sequence information	sequencing_platform	GENEPIO:0100473	The platform technology used to perform the sequencing.	unknown or cannot be provided, leave blank or provide a null value.	1923]	1.0.0	1.0.0	1.0.0		PAI_Host
				Provide the model sequencing instrument by	Illumina HiSeq					HPAI;HPAI_Fo
				selecting a value from the template pick list. If the information is unknown or cannot be	2500 [GENEPIO:010					od;HPAI_WW; HPAI_Enviro;H
Sequence information	sequencing_instrument	GENEPIO:0001452	The model of the sequencing instrument used.	provided, leave blank or provide a null value.	0117]	1.0.0	1.0.0	1.0.0		PAI_Host
										HPAI;HPAI_Fo od;HPAI_WW;
Sequence information	library_preparation_kit	GENEPIO:0001450	The name of the DNA library preparation kit used to generate the library being sequenced.	Provide the name of the library preparation kit used.	Nextera XT	1.0.0	1.0.0	1.0.0		HPAI_Enviro;H PAI_Host
Sequence information	iibiaiy_preparation_kit	GENEFIO.0001430	being sequenceu.	useu.	INEXIGIA AT	1.0.0	1.0.0	1.0.0		HPAI;HPAI Fo
			The leasth of the DNA forward accounted by march asian about a	Desiride the forester the base seize (de see						od;HPAI_WW;
Sequence information	DNA_fragment_length	GENEPIO:0100843	The length of the DNA fragment generated by mechanical shearing or enzymatic digestion for the purposes of library preparation.	Provide the fragment length in base pairs (do no include the units).	400	1.0.0	1.0.0	1.0.0		HPAI_Enviro;H PAI_Host
					Hybrid selection					
					method					HPAI;HPAI_Fo
			The molecular technique used to selectively capture and amplify		(bait-capture) [GENEPIO:000					od;HPAI_WW; HPAI_Enviro;H
Sequence information	genomic_target_enrichment_method	GENEPIO:0100966	specific regions of interest from a genome.	Provide the name of the enrichment method	1950]	1.0.0	1.0.0	1.0.0		PAI_Host
					enrichment was done using					
					Twist's					
					respiratory virus research					
					panel:					
				Provide details that are applicable to the method	https://www.twi stbioscience.co					
			Details that provide additional context to the molecular technique used	you used. Note: If bait-capture methods were used for enrichment, provide the panel name	m/products/ngs /fixed-panels/re					HPAI;HPAI_Fo od;HPAI_WW;
		OFNEDIO 0400007	to selectively capture and amplify specific regions of interest from a	and version number (or a URL providing that	spiratory-virus-r	400		400		HPAI_Enviro;H
Sequence information	genomic_target_enrichment_method_details	GENEPIO:0100967	genome.	information).	esearch-panel	1.0.0	1.0.0	1.0.0		PAI_Host HPAI:HPAI Fo
			The specifications of the primers (primer sequences, binding positions,	Provide the name and version of the primer						od;HPAI_WW;
Sequence information	amplicon_pcr_primer_scheme	GENEPIO:0001456	fragment size generated etc) used to generate the amplicons to be sequenced.	scheme used to generate the amplicons for sequencing.	artic v3	1.0.0	1.0.0	1.0.0		HPAI_Enviro;H PAI_Host
										HPAI;HPAI_Fo
				Provide the amplicon size expressed in base						HPAI_Enviro;H
Sequence information	amplicon_size	GENEPIO:0001449	The length of the amplicon generated by PCR amplification.	pairs.	300	1.0.0	1.0.0	1.0.0		PAI_Host
				Flow cells can vary in terms of design, chemistry capacity, etc. The version of the flow cell used to	5					
				generate sequence data can affect sequence quantity and quality. Record the version of the						HPAI;HPAI Fo
				flow cell used to generate sequence data. Do						od;HPAI_WW;
Sequence information	sequencing_flow_cell_version	GENEPIO:0101102	The version number of the flow cell used for generating sequence data.	not include "version" or "v" in the version number.	R.9.4.1	1.0.0	1.0.0	1.0.0		HPAI_Enviro;H PAI_Host
			5		https://www.pro					
					tocols.io/view/n cov-2019-sequ					
					encing-protocol					HPAI;HPAI_Fo
				Provide the name and version of the procedure or protocol used for sequencing. You can also	-bbmuik6w?ver sion_warning=n					od;HPAI_WW; HPAI_Enviro;H
Sequence information	sequencing_protocol	GENEPIO:0001454	The protocol or method used for sequencing.	provide a link to a protocol online.	0	1.0.0	1.0.0	1.0.0		PAI_Host
					ABC123_S1_L					HPAI;HPAI_Fo od;HPAI_WW;
Saguanaa informati	rd facta filonome	OENEDIO-0004472	The user-specified filename of the r1 FASTQ file.	Provide the r1 FASTQ filename.	001_R1_001.fa	100	1.0.0	1.0.0		HPAI_Enviro;H
Sequence information	r1_fastq_filename	GENEPIO:0001476	The user-specified filename of the FF PASTQ file.	Flovide tile EL FASTQ Illename.	stq.gz	1.0.0	1.0.0	1.0.0		PAI_Host

		Ontology			Deprecated Label Deprecated	ID Version Tracking			Editor Notes
Parent Class	Field	Identifier	Definition	Guidance	Examples	Tracking			Subset
					ABC123_S1_L				HPAI;HPAI_Fo od;HPAI_WW
Sequence information	r2_fastq_filename	GENEPIO:0001477	The user-specified filename of the r2 FASTQ file.	Provide the r2 FASTQ filename.	001_R2_001.fa stq.gz	1.0.0	1.0.0	1.0.0	HPAI_Enviro;H
Sequence information	12_1a5t4_THENAME	GENEPIO:00014//	The user-specified illename of the 12 FASTQ life.	Flovide tile (2 PAS I Q Illeflame.	siq.yz	1.0.0	1.0.0	1.0.0	HPAI;HPAI Fo
									od;HPAI_WW;
Sequence information	fast5_filename	GENEPIO:0001480	The user-specified filename of the FAST5 file.	Provide the FAST5 filename.	batch1a_seque nces.fast5	1.0.0	1.0.0	1.0.0	HPAI_Enviro;F PAI_Host
			'	Provide the name and version number, with the					HPAI;HPAI Fo
				file extension, of the processed genome sequence file e.g. a consensus sequence	mpxvassembly.				od;HPAI_WW; HPAI_Enviro;H
Sequence information	genome sequence file name	GENEPIO:0101715	The name of the sequence file.	FASTA file or a genome assembly file.	fasta	1.0.0	1.0.0	1.0.0	PAI_Host
									HPAI;HPAI_Fo
					pathogenasse				HPAI_Enviro;
Sequence information	assembly_filename	GENEPIO:0001461	The user-defined filename of the FASTA file.	Provide the FASTA filename.	mbly123.fasta	1.0.0	1.0.0	1.0.0	PAI_Host HPAI:HPAI F
									od;HPAI_WW
	Bioinformatics and QC metrics	GENEPIO:0001457							HPAI_Enviro
	Bioinformatics and QC metrics	GENEFIO.0001437		Providing the name of the method used for					FAI_HOSI
				quality control is very important for interpreting					
				the rest of the QC information. Method names can be provided as the name of a pipeline or a					
				link to a GitHub repository. Multiple methods should be listed and separated by a semi-colon					HPAI;HPAI_F
			The name of the method used to assess whether a sequence passed a						HPAI_Enviro;
Bioinformatics and QC metrics	quality control method name	GENEPIO:0100557	predetermined quality control threshold.	method name is provided.	ncov-tools	1.0.0	1.0.0	1.0.0	PAI_Host
				Methods updates can make big differences to their outputs. Provide the version of the method					
				used for quality control. The version can be					
				expressed using whatever convention the developer implements (e.g. date, semantic					
				versioning). If multiple methods were used, record the version numbers in the same order as					HPAI;HPAI_F od;HPAI_WV
			The version number of the method used to assess whether a sequence		S				OG;HPAI_WV
Bioinformatics and QC metrics	quality control method version	GENEPIO:0100558	passed a predetermined quality control threshold.	numbers using a semi-colon.	1.2.3	1.0.0	1.0.0	1.0.0	PAI_Host
				Select a value from the pick list provided. If a desired value is missing, submit a new term					HPAI;HPAI_F od;HPAI_WV
				request to the PHA4GE QC Tag GitHub	sequence failed				HPAI_Enviro
Bioinformatics and QC metrics	quality control determination	GENEPIO:0100559	The determination of a quality control assessment.		quality control	1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPAI F
				Select a value from the pick list provided. If a desired value is missing, submit a new term	low average				od;HPAI_WW
Bi-i-ftid OOti		GENEPIO:0100560	The reason contributing to, or causing, a low quality determination in a	request to the PHA4GE QC Tag GitHub	genome	400	1.0.0	1.0.0	HPAI_Enviro;
Bioinformatics and QC metrics	quality control issues	GENEPIO:0100560	quality control assessment.	issuetracker using the New Term Request form.	coverage CT value of 39.	1.0.0	1.0.0	1.0.0	PAI_Host
					Low viral load.				
					Low DNA concentration				
D		05115010.0400504	The details surrounding a low quality determination in a quality control	Provide notes or details regarding QC results	after		400	400	UDALUBAL S
Bioinformatics and QC metrics	quality control details	GENEPIO:0100561	assessment.	using free text. Raw data processing can have a significant	amplification.	1.0.0	1.0.0	1.0.0	HPAI;HPAI_F
				impact on data quality and how it can be used.					
				Provide the names and version numbers of software used for trimming adaptors, quality					HPAI;HPAI_F od:HPAI_WW
B		OFNEDIO 0004450	The method used for raw data processing such as removing barcodes,	filtering, etc (e.g. Trimmomatic v. 0.38, Porechop			400	400	HPAI_Enviro;
Bioinformatics and QC metrics	raw sequence data processing method	GENEPIO:0001458	adapter trimming, filtering etc.	v. 0.2.3), or a link to a GitHub protocol.	Porechop 0.2.3	1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPAI F
									od;HPAI_WW
Bioinformatics and QC metrics	dehosting method	GENEPIO:0001459	The method used to remove host reads from the pathogen sequence.	Provide the name and version number of the software used to remove host reads.	Nanostripper	1.0.0	1.0.0	1.0.0	HPAI_Enviro; PAI_Host
					SPAdes				
					Genome Assembler				HPAI;HPAI_Fo
				Provide the name of the software used to	Canu, wtdbg2,				HPAI_Enviro;I
Bioinformatics and QC metrics	sequence assembly software name	GENEPIO:0100825	The name of the software used to assemble a sequence.	assemble the sequence.	velvet	1.0.0	1.0.0	1.0.0	PAI_Host HPAI:HPAI_F
									od;HPAI_WW
Bioinformatics and QC metrics	sequence assembly software version	GENEPIO:0100826	The version of the software used to assemble a sequence.	Provide the version of the software used to assemble the sequence.	3.15.5	1.0.0	1.0.0	1.0.0	HPAI_Enviro;
Diomiorifatics and QC methos	sequence assembly software version	GENEFIO.0100020	The version of the software used to assemble a sequence.	assemble the sequence.	0.10.0	1.0.0	1.0.0	1.0.0	HPAI;HPAI_F
				L					od;HPAI_WW
Bioinformatics and QC metrics	consensus sequence software name	GENEPIO:0001463	The name of the software used to generate the consensus sequence.	Provide the name of the software used to generate the consensus sequence.	iVar	1.0.0	1.0.0	1.0.0	HPAI_Enviro;
			,						HPAI;HPAI F
				Provide the version of the software used to					od;HPAI_WW HPAI_Enviro;
Bioinformatics and QC metrics	consensus sequence software version	GENEPIO:0001469	The version of the software used to generate the consensus sequence.		1.3	1.0.0	1.0.0	1.0.0	PAI_Host
									HPAI;HPAI_F
			The percentage of the reference genome covered by the sequenced						od;HPAI_WW HPAI_Enviro;
Bioinformatics and QC metrics	breadth of coverage value	GENEPIO:0001472	data, to a prescribed depth.	Provide value as a percent.	95	1.0.0	1.0.0	1.0.0	PAI_Host
									HPAI;HPAI_F od;HPAI_WW
			The average number of reads representing a given nucleotide in the						HPAI_Enviro;
Bioinformatics and QC metrics	depth of coverage value	GENEPIO:0001474	reconstructed sequence.	Provide value as a fold of coverage.	400	1.0.0	1.0.0	1.0.0	PAI_Host
									HPAI;HPAI_Fo
200 /		OFNEDIO 053 : :			400	400		400	HPAI_Enviro;
Bioinformatics and QC metrics	depth of coverage threshold	GENEPIO:0001475	The threshold used as a cut-off for the depth of coverage.	Provide the threshold fold coverage.	100	1.0.0	1.0.0	1.0.0	PAI_Host

2 Cl	Field	Ontology	D-S-W	Cuidanaa		ed Label Deprecated ID Versi Track	on ing		Editor Notes
arent Class	Field	Identifier	Definition	Guidance	Examples	Haci	ing		Subset HPAI;HPA
			The percentage of expected genes identified in the genome being						od;HPAI_
informatics and QC metrics	genome completeness	GENEPIO:0100844	sequenced. Missing genes indicate missing genomic regions (incompleteness) in the data.	Provide the genome completeness as a percent (no need to include units).	85	1.0.0	1.0.0	1.0.0	HPAI_Env PAI_Host
iniornatics and QC metrics	genome completeness	GENEFIO:0100844	(incompleteness) in the data.	(no need to include units).	65	1.0.0	1.0.0	1.0.0	HPAI;HPA
									od;HPAI_
informatics and QC metrics		GENEPIO:0001482	The second of the latest three second of the	Provide a numerical value (no need to include	387566	100	1.0.0	100	HPAI_Env PAI Host
informatics and QC metrics	number of base pairs sequenced	GENEPIO:0001482	The number of total base pairs generated by the sequencing process.	units).	36/300	1.0.0	1.0.0	1.0.0	HPAI_HOSE
									od;HPAI_
pinformatics and QC metrics	number of total reads	GENEPIO:0100827	The total number of non-unique reads generated by the sequencing	Provide a numerical value (no need to include	423867	1.0.0	400		HPAI_Env
binformatics and QC metrics	number of total reads	GENEPIO:0100827	process.	units).	423867	1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPA
									od;HPAI_
		QENEDIO 040000		Provide a numerical value (no need to include	248236	400			HPAI_Env
informatics and QC metrics	number of unique reads	GENEPIO:0100828	The number of unique reads generated by the sequencing process.	units).	248236	1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPA
									od;HPAI
informatics and OC metrics		QENEDIO 040000	The threshold used as a cut-off for the minimum length of a read after	Provide a numerical value (no need to include	450	400			HPAI_En
ntormatics and QC metrics	minimum post-trimming read length	GENEPIO:0100829	trimming.	units).	150	1.0.0	1.0.0	1.0.0	PAI_Host
									HPAI;HP/ od;HPAI_
			The number of contigs (contiguous sequences) in a sequence						HPAI En
formatics and QC metrics	number of contigs	GENEPIO:0100937	assembly.	Provide a numerical value.	10	1.0.0	1.0.0	1.0.0	PAI_Hos
									HPAI;HF od;HPAI
				Provide a numerical value (no need to include					HPAI_E
formatics and QC metrics	percent Ns across total genome length	GENEPIO:0100830	The percentage of the assembly that consists of ambiguous bases (Ns)	. units).	2	1.0.0	1.0.0	1.0.0	PAI_Ho:
									HPAI;HF
			The number of ambiguous bases (Ns) normalized per 100 kilobasepairs	Provide a numerical value (no need to include					HPAI_E
formatics and QC metrics	Ns per 100 kbp	GENEPIO:0001484	(kbp).	units).	342	1.0.0	1.0.0	1.0.0	PAI_Ho:
									HPAI;HF
			The length of the shortest read that, together with other reads,						od;HPAI HPAI_E
formatics and QC metrics	N50	GENEPIO:0100938	represents at least 50% of the nucleotides in a set of sequences.	Provide the N50 value in Mb.	150	1.0.0	1.0.0	1.0.0	PAI_Hos
									HPAI;HF
			The percent of the total number of reads identified as contamination	Provide the percent contamination value (no					od;HPAI HPAI E
formatics and QC metrics	percent read contamination	GENEPIO:0100845	(not belonging to the target organism) in a sequence dataset.	need to include units).	2	1.0.0	1.0.0	1.0.0	PAI_Hos
									HPAI;HP
			The leasth of the account of the acc	Describe a supervised colors (see a seed to include					od;HPAI
nformatics and QC metrics	sequence assembly length	GENEPIO:0100846	The length of the genome generated by assembling reads using a scaffold or by reference-based mapping.	Provide a numerical value (no need to include units).	34272	1.0.0	1.0.0	1.0.0	HPAI_Ei
	, , ,		, , , , ,	,					HPAI;HF
									od;HPAI
nformatics and QC metrics	consensus genome length	GENEPIO:0001483	The length of the genome defined by the most common nucleotides at each position.	Provide a numerical value (no need to include units).	38677	1.0.0	1.0.0	1.0.0	HPAI_Ei
									HPAI:HP
									od;HPAI
nformatics and OC metrics	reference genome accession	GENEPIO:0001485	A persistent, unique identifier of a genome database entry.	Provide the accession number of the reference genome.	NC 045512.2	100	1.0.0	1.0.0	HPAI_Er
mornado ana go monos	Total and a second a second and	OLIVE! 10:0001400	71 personality, unique racination of a goriotic database citary.	gonome.	110_010012.2	1.0.0	1.0.0	1.0.0	HPAI;HP
				Provide the deduplication software name					od;HPAI
nformatics and QC metrics	deduplication method	GENEPIO:0100831	The method used to remove duplicated reads in a sequence read dataset	followed by the version, or a link to a tool or method.	DeDup 0.12.8	1.0.0	1.0.0	1.0.0	HPAI_Er
mormanos anu QC memos	ueuupiicadoii illetiiou	GENEFIO.0100031	Gatasot.	Further details regarding the methods used to	DeDup 0.12.0	1.0.0	1.0.0	1.0.0	PAI_HOS
				process raw data, and/or generate assemblies,					
				and/or generate consensus sequences can. This information can be provided in an SOP or					HPAI:HF
				protocol or pipeline/workflow. Provide the name	https://github.c om/phac-nml/n				od:HPAI
				and version number of the protocol, or a GitHub					HPAI_E
nformatics and QC metrics	bioinformatics protocol	GENEPIO:0001489	A description of the overall bioinformatics strategy used.	link to a pipeline or workflow.	<u>f</u>	1.0.0	1.0.0	1.0.0	PAI_Hos
									HPAI;HF od;HPA
									HPAI_E
	Taxonomic identification information	GENEPIO:0101082							PAI_Ho
					Bowtie2,				HPAI;HF od;HPA
			The name of the software used to map sequence reads to a reference		BWA-MEM,				HPAI E
nomic identification information	read mapping software name	GENEPIO:0100832	genome or set of reference genes.	Provide the name of the read mapping software.	TopHat	1.0.0	1.0.0	1.0.0	PAI_Ho
									HPAI;H
			The version of the software used to map sequence reads to a reference	Provide the version number of the read manning					od;HPA HPAI_E
nomic identification information	read mapping software version	GENEPIO:0100833	genome or set of reference genes.	software.	2.5.1	1.0.0	1.0.0	1.0.0	PAI_Ho
									HPAI;H
			The name of the taxonomic reference database used to identify the	Provide the name of the taxonomic reference					od;HPA HPALE
nomic identification information	taxonomic reference database name	GENEPIO:0100834	organism.	database.	NCBITaxon	1.0.0	1.0.0	1.0.0	PAI_E
			•			1.5.5			HPAI;HF
				L					od;HPAI
onomic identification information	taxonomic reference database version	GENEPIO:0100835	The version of the taxonomic reference database used to identify the organism.	Provide the version number of the taxonomic reference database.	1.3	1.0.0	1.0.0	1.0.0	HPAI_Er PAI_Hos
		OLINEI 10.0100000	organion.	rotototioo uatabase.	1.0	1.0.0	1.0.0	1.0.0	i-Al_Hos
konomic identification information			The filename of the report containing the results of a taxonomic	Provide the filename of the report containing the	WWtay report				

Perent Class	Eiold	Ontology Identifier	Definition	Cuidanas		ecated Label Deprecated ID	Version Tracking		Editor I	lotes
Parent Class	Field	ldentifier	Definition	Guidance Providing the date that an analyis was performed can help provide context for tool and reference database versions. Provide the date that the	Examples		Tracking			Subset HPAI;HPAI_Fo od;HPAI_WW;
Taxonomic identification information	taxonomic analysis date	GENEPIO:0101075	The date a taxonomic analysis was performed.	taxonomic analysis was performed in ISO 8601 format, i.e. "YYYY-MM-DD".	2024-02-01		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
										HPAI;HPAI_Fo od;HPAI WW;
Taxonomic identification information	read mapping criteria	GENEPIO:0100836	A description of the criteria used to map reads to a reference sequence	Provide a description of the read mapping	Phred score >20		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
Taxonomio Idonanoaton mornation	road mapping ortona	OENE 10.0100000	A description of the stream about to map rough to a reference sequence	. omora.	- 20		1.0.0	1.0.0	1.5.5	HPAI;HPAI Fo
		GENEPIO:0001506								od;HPAI_WW; HPAI_Enviro;H
	Pathogen diagnostic testing	GENEPIO:0001506		Provide the full name of the gene used in the						PAI_Host HPAI;HPAI_Fo
				test. Standardized gene names can be found in the Gene Ontology using this look-up service:						od;HPAI_WW; HPAI_Enviro;H
Pathogen diagnostic testing	genetic target name	GENEPIO:0101116	The name of the genetic marker used for testing.	https://bit.ly/2Sq1Lbl	gyrase A		1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPAI Fo
			The specific region or segment of a genetic sequence used for testing							od;HPAI_WW; HPAI_Enviro;H
Pathogen diagnostic testing	genetic target region	GENEPIO:0101117	or analysis.				1.0.0	1.0.0	1.0.0	PAI_Host
										HPAI;HPAI_Fo od;HPAI_WW;
Pathogen diagnostic testing	genetic target region reference genome	GENEPIO:0101118	The reference genome version used to determine the coordinates or identity of the genetic target region in testing or analysis.				1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
				Select a value from the pick list provided to						HPAI;HPAI_Fo od:HPAI_WW:
Pathogen diagnostic testing	diagnostic target presence	GENEPIO:0100962	The binary value of the result from a diagnostic test.	describe whether a target was determined to be present or absent within a sample.	diagnostic target present		100	1.0.0	100	HPAI_Enviro;H PAI_Host
				Provide the numerical result of a diagnostic test						_
Pathogen diagnostic testing	diagnostic measurement value	GENEPIO:0100963	The value of the result from a diagnostic test.	(no need to include units).	1902-09-26		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Food
				Select a value from the pick list provided, to	cycle threshold					od;HPAI_WW; HPAI_Enviro;H
Pathogen diagnostic testing	diagnostic measurement unit	GENEPIO:0100964	The unit of the result from a diagnostic test.	describe the units of the given diagnostic test.	(Čt)		1.0.0	1.0.0	1.0.0	PAI_Host
				Select a value from the pick list provided to						od;HPAI_WW;
Pathogen diagnostic testing	diagnostic measurement method	GENEPIO:0100965	The method by which a diagnostic result was determined.	describe the method used for a given diagnostic test.	qPCR		1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
										HPAI;HPAI_Fo od;HPAI_WW;
Pathogen diagnostic testing	diagnostic testing threshold value	GENEPIO:0101104	The numerical value which represents the threshold above/below which interpretation can be drawn on the diagnostic test	ו			1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
										HPAI;HPAI_Fo od;HPAI_WW;
Pathogen diagnostic testing	diagnostic testing threshold units	GENEPIO:0101105	The unit which are attributed to the threshold above/below which interpretation can be drawn on the diagnostic test				1.0.0	1.0.0	1.0.0	HPAI_Enviro;H PAI_Host
-allogen diagnostic testing	diagnostic testing threshold units	GENEPIO:0101105	interpretation can be drawn on the diagnostic test				1.0.0	1.0.0	1.0.0	HPAI;HPAI Fo
										od;HPAI_WW; HPAI_Enviro;H
Pathogen diagnostic testing	diagnostic testing details	GENEPIO:0101106	Describe any details of the diagnsotic testing.				1.0.0	1.0.0	1.0.0	PAI_Host HPAI;HPAI_Fo
										od;HPAI_WW; HPAI_Enviro;H
	Risk assessment information	GENEPIO:0100478								PAI_Host
			Metrics regarding the prevalence of the pathogen of interest obtained							HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H
Risk assessment information	prevalence_metrics	GENEPIO:0100480	from a surveillance project.	indicate that the information is available.	samples		1.0.0	1.0.0	1.0.0	PAI_Host
Risk assessment information	prevalence_metrics_details	GENEPIO:0100481	The details pertaining to the prevalence metrics from a surveillance project.	If there are details pertaining to samples or organism counts in the sample plan that might be informative, provide details using free text.	Hazard organism counts (i.e. Salmonella) do not distinguish between serovars.		1.0.0	1.0.0	1.0.0	HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H PAI_Host
					Abattoir [ENVO:010009					HPAI;HPAI_Fo od;HPAI_WW; HPAI_Enviro;H
Risk assessment information	stage_of_production	GENEPIO:0100482	The stage of food production.	Provide the stage of food production as free text. In some surveys, a particular intervention in the	25]		1.0.0	1.0.0	1.0.0	PAI_Host
				food supply chain in studied. If there was an intervention specified in the sample plan, select						HPAI;HPAI_Fo od:HPAI_WW:
Risk assessment information	experimental intervention	GENEPIO:0100483	The category of the experimental intervention applied in the food production system.	the intervention category from the pick list provided.	Vaccination [NCIT:C15346]		100	1.0.0	1.0.0	HPAI_Enviro;H PAI Host
THE CONTROL OF THE PROPERTY OF	OAPOTITION TOTAL OF	OLINE 10.0 /00403	,		2% cranberry		1.0.0	1.0.0	1.0.0	I ALLIOS
Risk assessment information	experiment_intervention_details	GENEPIO:0100484	The details of the experimental intervention applied in the food production system.	If an experimental intervention was applied in the survey, provide details in this field as free text.	solution mixed in feed		1.0.0	1.0.0	1.0.0	HPAI:HPAI Foor