

Public Health Environmental Surveillance Open Data Model (PHES-ODM) Documentation

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Table of contents

Introduction	1
How to use the documentation	2
Future documentation	2
Quick start	2
1. Get oriented to the ODM tables where you record results	3
2. View mandatory and optional data fields in the tables reference guide	3
3. Try entering example data in ODM Excel templates . . .	4
4. Next steps	5
Getting help	6
Background	7
Getting to know the ODM	9
What are “Parts” and “Part Types”?	9
“Sets” and the rationale behind sets	10
Why category sets are treated differently	11
The “what” and “why” of Specimen IDs	11
The “what” and “why” of Groups and Classes	12
Tables and table types within the ODM	12
Program description tables	13
Results tables	13
Look-up tables	13
Measures, Methods, and Attributes: Key parts	13
Measures	14
Methods	14

Table of contents

Attributes	14
Data quality and reportability	15
Time periods for samples and measures	15
Dates within the ODM	16
Translation and language capabilities	16
Recording protocols	17
Recommended formula for user-generated IDs	19
Questions and online community	23
How to use the ODM	25
How-To guides	25
1) How to use templates	25
Conditional menus	28
2) How to report Measures and Measure sets	29
Quick Start	29
Measure report template	29
Measure Sets Template	30
Detailed description	31
Measures template	31
Measure set report template	35
3) How to report samples and sample relationships:	36
Quick Start	37
Samples Template	37
Sample Relationships Template	38
Detailed Description	39
Sample report template	39
Sample relationships template	41
4) How to record a protocol	42
Quick Start	43
Protocol steps template	43
Protocols template	44
Protocol relationships template	44
Detailed Description	45
Protocol steps template	45

Table of contents

Protocols template	47
Protocol relationships template	49
5) How to report metadata	51
Quick Start	51
Address (or addresses) template	51
Contact (or contacts) template	52
Dataset (or datasets) template	52
Instrument (or instruments) Template	53
Organization (or organizations) template	53
Polygon (or polygons) template	54
Quality reports (or qualityReports) template	54
Sites (or sites) template	55
Detailed Description	56
Address template	56
Contact template	57
Dataset template	59
Instrument template	60
Organization template	62
Polygon template	63
Quality reports template	65
Sites template	66
Notes regarding templates	69
Templates with conditional menus (Measure report and Protocol steps)	69
Templates with menus (all templates other than the Measure sets, Protocols, Contact, Address and Dataset templates)	71
Sample Relationships	73
Context	73
Modelling sample relationships	73
Implementation	75

Table of contents

Long-format, wide-format, and wide-names	79
Wide-format and long-format data	79
Issues with moving between formats	80
PHES-ODM approach to wide- and long-formats	80
Wide-names	83
Attributes	83
Measures	84
Protocol steps	86
For combined long- and wide-formats	87
Wide-name exceptions	91
Attribute naming exceptions	91
Measure and method naming exceptions	92
Tutorials	93
Building a wide-format ODM headers	93
Building a wide-format ODM table	96
How-To Guides	99
Wide-name Templates	99
I. Reference guide	101
Parts	105
a1306s delta-variant gene target	106
a1918v delta-variant gene target	106
a2710t omicron-variant gene target	106
a63t omicron-variant gene target	107
a67v omicron-variant gene target	107
Omicron Variant a67v del69 and del70 mutations	107
Atline Analyzer	108
Absolute humidity	108
Absolute humidity unit set	109

Table of contents

Academic institution	109
Acinetobacter	109
Acinetobacter Group	110
Number of active cases	110
Number of active cases by episode date	110
Number of active cases by Onset date	111
Number of active cases by Report date	111
Number of active cases by test date	112
Active	112
Address table Shorthand	112
Analysis date	113
Analysis date end	113
Analysis date start	113
Address Line 1	114
Address Line 2	114
Address table	114
Addresses table column order	115
Address table required headers	115
Address ID	116
Adenovirus (F40/41)	116
Adenovirus Group	116
Administrative regions	117
Adenovirus 40	117
Adenovirus 41	117
Adenovirus F41 Fibre Gene Target	118
Academic Free License v3.0	118
Air filter	118
Aggregation scale	119
Aggregation	119
Aggregation input (wide table)	120
Aggregation name (wide table)	120
Aggregations	120
Aggregation scales	121
Aggregation set	121

Table of contents

Aggregation sets	121
GNU Affero General Public License v3.0	122
Air compartment	122
Air compartment set	123
Airplane	123
Airport	123
Airport lists worksheet	124
Airport Sheets Set	124
Airport Surveillance Template	124
Air and surface compartment set	125
Environmental temperature	125
Air and water compartment set	126
Alias depreciated	126
Alias ID depreciated	126
All domains	127
Alleles class	127
Allele unit set	127
Access to all org	128
Assay Limit of Detection (LOD)	128
Aloh3 precipitation	129
Assay method id default depreciated	129
Amicon ultrafiltration	129
Amicon filter, extract with MP96	130
Amplicon sequencing	130
Anti-microbial resistance Group	130
Anaplasma Group	131
AND Boolean aggregation	131
annealing/extension	132
Any compartment set	132
Any specimen set	132
Apache license 2.0	133
Anaplasma phagocytophilum	133
Area proportional sample	133
Arrival temperature	134

Table of contents

Use of the articV3 primer	134
Use of the articV4 primer	135
Artistic license 2.0	135
Assay ID	135
Astrovirus	136
Astrovirus Group	136
Attribute input (wide table)	136
Attribute name (wide table)	137
Attributes	137
Automatic composite sampling	138
Automatic sequential sampling	138
Babesia	138
Babesia or Nuttalllia Group	139
Bacteroides 16S forward primer (HF183) (ABI)	139
Bacteroides 16S probe (BacP234) (ABI)	139
Bacteroides 16S reverse primer (BacR287) (ABI)	140
Bacteria Class	140
Bacteria unit set	140
Bacteroides Group	141
Miscellaneous bacteria group	141
Bead beating, extract with MP96	142
Borrelia burgdorferi	142
bcov	142
bcov culture spike target	143
bcov spike target (unspecified)	143
bcov vaccine spike target	143
Beef extract flocculation	144
Is Before	144
Below LOD	145
Measured levels below LOQ	145
Beta	145
Beta Coronavirus Group	146
Biologic	146
Digital droplet emulsification PCR	146

Table of contents

Beta-Lactamase Anti-microbial resistance Group	147
Cephamycin Beta-Lactamase-Resistance gene target	147
CTX-M Beta-Lactamase-Resistance gene target	148
Impenemase (IMP) Beta-Lactamase-Resistance gene target	148
Klebsiella pneumoniae Carbapenam (KPC) Beta-Lactamase-Resistance gene target	148
New-Delhi Metallo- (NDM) Beta-Lactamase-Resistance gene target	149
OXA-type Beta-Lactamase-Resistance gene target	149
SHV Beta-Lactamase-Resistance gene target	150
TEM Beta-Lactamase-Resistance gene target	150
Verone Integron-Encoded Metallo- (VIM) Beta-Lactamase-Resistance-resistance gene target	151
Binary Large Object (BLOB) data type	151
Breadth of coverage ($>=5x$ depth)	152
5-Day carbonaceous biochemical oxygen demand	152
5-day total biochemical oxygen demand	152
Boolean data type	153
Boolean aggregation set	153
Boolean value set	154
Borrelia burgdorferi or Lyme Disease Group	154
Bovine respiratory syncytial virus group	154
brsv culture spike target	155
BRSV-N	155
brsv vaccine spike target	155
Brucella	156
Brucella Group	156
BSD Zero-Clause license	157
BSD 2-clause “Simplified” license	157
BSD 3-clause “New” or “Revised” license	157
BSD 3-clause Clear license	158
BSD 4-clause “Original” or “Old” license	158
Boost Software License 1.0	159
Branch sewer pipeline	159

Table of contents

Building cleanout	159
Bus	160
Bus Station	160
Caffeine	160
Campylobacter	161
Campylobacter Group	161
Capacity class	162
Capacity unit set	162
Capital city endonym	162
Capital city exonym	163
Case report date	163
Episode date of confirmed cases	163
Onset date of confirmed cases	164
Report date of confirmed cases	164
Test date of confirmed cases	165
Categorical data type	165
Categories	165
Candida auris	166
Candida auris Group	166
Carbapenemase-encoding genes	167
Creative Commons Zero v1.0 Universal	167
Creative Commons Attribution 4.0	167
CC BY-NC 4.0 license	168
CC BY-NC-SA 4.0 license	168
Creative Commons Attribution ShareAlike 4.0	169
Long-term acute care hospital	169
Child day care	169
Sarboco_E forward primer (IDT)	170
Sarboco_E probe (IDT)	170
Sarboco_E reverse primer (IDT)	170
2019-nCoV_N1 forward primer (IDT)	171
2019-nCoV_N1 probe (IDT)	171
2019-nCoV_N1 reverse primer (IDT)	171
2019-nCoV_N2 forward primer (IDT)	172

Table of contents

2019-nCoV_N2 probe (IDT)	172
2019-nCoV_N2 reverse primer (IDT)	173
2019-nCoV_N3 forward primer (IDT)	173
2019-nCoV_N3 probe (IDT)	173
2019-nCoV_N3 reverse primer (IDT)	174
Clostridium difficile	174
Corynebacterium diphtheriae	174
CeCILL Free Software License Agreement v2.1	175
Degrees Celcius	175
Centrifugation	175
Centricon ultrafiltration	176
Centrifugation speed	176
Ceres nanotrap	177
CFU per 100 ml	177
Changes column	177
character length	178
Chemical	178
Chemagic viral dna/rna 300 kit	178
Chikungunya Group	179
Chikungunya virus (CHIKV)	179
Child relationship	180
Chlamydia	180
Chlamydia Group	180
City	181
Campylobacter jejuni bacteria	181
Composite Key	181
Clarified sample	182
Class	182
Classes	183
Clostridium Group	183
Cloudy	183
Centimetres	184
Contact table Shorthand	184
Carbon Dioxide	185

Table of contents

Chemical Oxygen Demand	185
Time from collection to storage	185
Colistin Anti-microbial resistance group	186
Collection group	186
Colistin resistance	186
Collection date time	187
Collection date time end	187
Collection date time start	188
Sample collection set	188
Collection number	188
Collection period and number	189
Collection period	190
Sample collection type	190
Co-located sample	190
Column name depreciated	191
Commercial facility - not specified	191
Composite sample - archival	191
Composite grab sample of 3	192
Composite grab sample of 3 deprecate	192
Composite 3hr grab sample	193
Composite 3hr grab sample deprecate	193
Composite 8hr grab sample depreciated	193
Composite 8hr grab sample deprecated	194
Compartment	194
Compartment input (wide table)	195
Compartment name (wide table)	195
Compartments	195
Compartment Set Header	196
Compartment sets	196
Composting toilet	197
Concentration measure	197
Is concurrent to	197
Sample volume after concentration	198
Water conductivity	198

Table of contents

Conductivity class	199
Conductivity unit set	199
Cone-shaped sampling	199
Number of confirmed cases	200
Number of confirmed cases by episode date	200
Number of confirmed Cases Onset date	200
Number of confirmed cases by report date	201
Number of confirmed cases test date	201
Contact ID	202
Contact name	202
Contact table	202
Contacts table column order	203
Contact table required headers	203
Contact table set	203
Contact phone	204
Core sampling	204
Correctional facility	205
COSCa ball	205
Countries look-up tables	205
Countries table column order	206
Countries table required headers	206
Country	206
Country endonym	207
Country exonym	207
Countries or sovereign states	208
Districts, counties, regions	208
Covid-19	208
SARS-CoV-2 measure	209
SARS-CoV-2-B.1.1.7	209
SARS-CoV-2-B.1.351	210
SARS-CoV-2-E	210
SARS-CoV-2-N1	210
SARS-CoV-2-N2	211
SARS-CoV-2-N200	211

Table of contents

SARS-CoV-2-N3	211
SARS-CoV-2-P.1	212
SARS-CoV-2-RdRp	212
SARS-CoV-2 S Gene Target	213
Clostridium perfringens	213
Covid-19 population measurement date	213
Cphd ID	214
crAssphage-N	214
Creatinine	215
Crosswalk table set	215
Cryptosporidium	215
Cryptosporidium Group	216
Cycle threshold or quantification cycle (Ct or Cq)	216
Countries look-up tables Shorthand	216
Cumulative count	217
Custody Contact ID	217
Data custodian ID	218
Circulating vaccine-derived poliovirus type 2	218
Number of cycles	218
D339H Mutation	219
d377y delta-variant gene target	219
d3g omicron-variant gene target	220
d63g delta-variant gene target	220
d796y omicron-variant gene target	220
d950n delta-variant gene target	221
Daily count	221
Data collection sector or organization	222
Dataset creation date	222
Dataset ID	222
Dataset table	223
Datasets table column order	223
Dataset table required headers	224
Data types	224
Date	225

Table of contents

Datetime data type	225
Days	225
ddcov_e sars-cov-2 gene target	226
ddcov_n sars-cov-2 gene target	226
Digital Droplet PCR (ddPCR)	226
Deaths	227
Omicron Variant 142-144 Deletion	227
del143/145	228
Delta Variant 156-157 Deletion	228
del 157/158	228
del2084/2084	229
del212/212	229
Omicron Variant 142-14431-33 Deletion	230
del3674/3676	230
del69/70	230
Delayed Arrival or Prolonged Transit	231
Delta	231
SARS-CoV-2 Delta Variant Group	231
Dengue Virus Type 1	232
Dengue Virus Type 2	232
Dengue Virus Type 3	233
Dengue Virus Type 4	233
denaturation	233
Dengue	234
Deprecated	234
Derived sample	234
Description	235
Description of change	236
Desk or counter	236
Dewatered solids	236
Detected	237
Access to details deprecated	237
Development	237
Dictionary reference table set	238

Table of contents

Additional dictionary sheets	238
Dictionary set type	239
Dilution factor	239
Point dilutions	239
Dilution Class	240
Diphtheria Group	240
Diseases (human) class	241
Dissolved gas concentration unit set	241
DNA Template	241
Dengue Virus E Gene	242
Dengue Virus NS5 Gene	242
Dengue Virus prM Gene	242
Depth of coverage	243
Domain	243
Domains	244
Higher education dormitory or residential building	244
Digital PCR (dPCR)	244
Sewer (drain)	245
Dataset table Shorthand	245
Duration time of a method	246
e156g delta-variant gene target	246
e484a omicron-variant gene target	246
Enterotoaggregative Escherichia coli (EAEC)	247
Epstein,Åö/Ñ/“Barr virus (EBV)	247
Educational Community License v2.0	247
Escherichia coli	248
Escherichia coli group	248
Education	249
Efficiency	249
Wastewater Effluent - non-specified	249
Enterohemorrhagic Escherichia coli (EHEC)	250
Enteroinvasive Escherichia coli (EIEC)	250
Eluate/Resuspended filter material retained	251
Elution buffer	251

Table of contents

Contact email	251
European Nucleotide Association	252
European Nucleotide Association (ENA) - notes	252
Enterovirus	252
Enterovirus Group	253
Enumeration for set values	253
Rainfall	254
Ground snow depth	254
Snowfall	254
Enteropathogenic Escherichia coli (EPEC)	255
Episode date	255
Eclipse Public License 1.0	255
Eclipse Public License 2.0	256
ERD table set	256
Sarbecovirus-specific E sars-cov-2 gene target	257
ESBL-encoding genes	257
exclusions based sample preparation (ESP)	257
Estimated frequency of reads	258
Estuary, natural water body	258
Enterotoxigenic Escherichia coli (ETEC)	258
European Union Public License 1.1	259
European Union Public License 1.2	259
Exception Part Type	260
Extraintestinal pathogenic Escherichia coli (ExPEC)	260
Experiment Failed	260
Extraction Blank - Control	261
4s method	261
Nucleic acid extraction method	261
Nucleic Acid Extraction set	262
Extraction volume of sample	262
F456L Mutation	263
Fecal matter	263
FALSE	263
Male-specific (F+) coliphage - general	264

Table of contents

F+ DNA coliphage	264
Field sample	264
Field sample replicate	265
File location of polygon	265
Filtration	265
First Nation	266
Final volume	266
First name of contact	267
First released version	267
Foreign key	267
AI - Inhibition present but addressed	268
B - Trace levels of contamination	268
FI - Inhibition present and unaddressed	268
J - Weak signal extrapolation	269
ND - Non-detect	269
UJ - Trace signal extrapolation	270
UQ - Unquantifiable	270
Flavivirus (West Nile, Dengue, Zika) Group	271
FLiRT/SLip Variant Group	271
FLiRT Variants	271
Float data type	272
Flow-normalized mean	272
Floor	272
Flow rate	273
Flow class	273
Flow proportional 24hr sample deprecated	274
Flow proportional sample	274
Volume flow rate unit set	274
Flow volume	275
Influenza virus measure	275
Influenza A virus	276
Influenza virus A1	276
Influenza virus A1 and A2 combined	276
influenza virus A2	277

Table of contents

Influenza A Virus Group	277
Influenza virus B	278
Influenza B Virus Group	278
Influenza Virus General Group	278
Influenza A H5 hemagglutinin gene	279
Influenza A M gene	279
Fluidigm digital PCR	280
Influenza A N1 neuraminidase gene	280
Foggy	280
Fraction analyzed	281
Fraction input (wide table)	281
Fraction name (wide table)	281
Sample fraction set	282
Freyja Script	282
F-Specific RNA bacteriophages	282
F+ RNA coliphage	283
F-Specific RNA bacteriophages, G2	283
Sample frozen	284
Field sample temperature	284
Francisella tularensis	284
Full dictionary sheets set	285
Funder contact ID	285
Funding agency ID	285
g215c delta-variant gene target	286
g339d omicron-variant gene target	286
g496s omicron-variant gene target	287
g662s delta-variant gene target	287
Gamma	287
Gas class	288
Gene copies	288
Gene copies per copy of crAssphage	288
gene copies per day per 100,000 people	289
Gene copies per gram solids	289
Gene copies per L	289

Table of contents

Gene copies per mL	290
Gene copies per PMMoV copy	290
Genetics unit set	290
General missingness set	291
Generic quality flag set	291
European Petroleum Survey Group Coordinates	292
Latitude	292
Longitude	292
Type of geography	293
Geographic set	293
Well-known text	293
GNU Free Documentation License v1.3	294
Gram per cubic metre	294
Geometric mean	295
Gonococcus Group	295
Government agency	295
GNU General Public License v2.0	296
GNU General Public License v3.0	296
Grams	297
Gravity settling	297
Grab sample	297
Gromstole 1.0 Script	298
Group	298
Groups	299
Influenza A H5 hemagglutinin gene	299
H5N1 avian influenza A virus (IAV)	299
Haemophilus Group	300
See Header for Aggregation	300
See Header for Compartment	301
Haemophilus ducreyi	301
Header	301
Health administration or planning agency	302
Health Region for a Site	302
Heat inactivated sars-cov-2 virus spike target	302

Table of contents

Hepatitis A	303
Hepatitis B	303
Hepatitis C	304
Hepatitis E	304
hep g armored rna	304
hep g armored rna spike target	305
Hepatitis Group	305
Herpes Virus Group	305
HF183 Bacteriodes 16S	306
See Header for Fraction Analyzed	306
5-hydroxyindoleacetic acid (5-HIAA)	307
High severity	307
Haemophilus influenzae	308
Human Immunodeficiency Virus (HIV)	308
HIV Group	308
Sewer Network Health Region	309
Hand Measurement	309
See Header for Measure	309
Human Metapneumovirus (HMPV)	310
Hollow fiber dead end ultrafiltration	310
Horizontal grab sampling	311
General Hospital Admissions	311
Hospital Census	311
Hospital	312
Holding tank wastewater depreciated	312
Hours	312
Human Parainfluenza Virus (HPIV)	313
Human Papiloma Virus (HPV)	313
Human Rhinovirus (HRV)	314
Human Rhinovirus (HRV) A	314
Human Rhinovirus (HRV) B	314
Human Rhinovirus (HRV) C	315
Rhinovirus Group	315
See Header for Specimen	316

Table of contents

Herpes Simplex Virus	316
Holding tank wastewater	316
Holding tank	317
Human compartment	317
Human compartment set	317
Humidity class	318
See Header for Unit	318
i1566v omicron-variant gene target	318
i3758v omicron-variant gene target	319
i82t delta-variant gene target	319
Influenza A M gene	320
Ibuprofen	320
International Classification of Diseases	321
Intensive care unit patients	321
Instrument table Shorthand	321
Index	322
Industrial input	322
Influent equilibration	322
Inhibition set	323
Inhibition measure	323
Inhibition method	324
Innovaprep ultrafiltration	324
Input	324
Omicron Variant ins214epe Insertion	325
Instrument ID	325
Instrument table	326
Instruments table column order	326
Instrument table required headers	326
Other instrument	327
Instrument Type	327
Describe other instrument type, if applicable	328
Instrument set	328
Integrase Anti-microbial resistance Group	328
Integer data type	329

Table of contents

Integrase Class I gene target	329
Intercept	329
Combined ip2 and ip4 sars-cov-2 gene target	330
ISC	330
ISO639-1	331
ISO639-2B	331
ISO639-2T	332
ISO639-3	332
ISO639-6	333
ISO 3166-1 alpha-2 country code	333
ISO 3166-1 alpha-3 country code	334
ISO 3166-2 code for country sub-domain	334
JN.1.7 Variant	334
JN.1 Variant	335
k856r omicron-variant gene target	335
Kilogram per second	336
Kilolitres	336
Klebsiella Group	336
Klebsiella pneumoniae	337
KP.1.1 Variant	337
KP.1 Variant	338
KP.2 Variant	338
Litres	338
Omicron Variant l24s mutation	339
l452r delta-variant gene target	339
L455S Mutation	339
l981f omicron-variant gene target	340
Language Look-up table Shorthand	340
Laboratory	341
Lab ID default deprecated	341
Laboratory duplicate	341
Label	342
Lab ID	342
Lagoon system	342

Table of contents

Lake, natural water body	343
Lambda	343
Land-based Transit Hub	343
Language ID	344
Language family	344
Language name	345
National language script	345
Language Look-up table	346
Language table column order	346
Language table required headers	346
Last edited	347
Last name of contact	347
Last updated version	348
LaTeX expression	348
Latrine	348
Low breadth of coverage	349
Laboratory control sample duplicate	349
Low depth of coverage	349
Leaked sample	350
Legionella	350
Legionella Group	351
Lentivirus Group	351
GNU Lesser General Public License v2.1	351
GNU Lesser General Public License v3.0	352
Link	352
License	353
Data license set	353
Linear scale aggregation set	353
Liquid fraction	354
Liquid/Supernatant retained	354
Listeria	355
Listeria Group	355
List worksheet	355
List set	356

Table of contents

Access to local ha	356
Limit of detection (LOD)	356
Limit of detection (LOD) - sewage	357
log ₁₀ gene copies per g	357
log ₁₀ gene copies per L	358
log ₁₀ gene copies per mL	358
log ₁₀ micrograms per g	358
log ₁₀ micrograms per L	359
Logarithmic scale aggregation set	359
Dictionary tables	359
Limit of quantification (LOQ)	360
Low severity	360
Lower limit of a 95% confidence interval	360
Low-volume sample	361
Omicron Variant LPPA24S mutation	361
LaTeX Project Public License v1.3c	362
Long-term care facility	362
Long-term care - assisted living or retirement home	362
Other long-term care	363
Life technologies digital PCR	363
luminUltra wastewater extraction kit	364
Lysis buffer	364
Cubic metres per day	364
Cubic metres per hour	365
Cubic metres per second	365
Plasmodium or Malaria Group	365
Manual Composite Sample	366
Manufacturer	366
Mate pair layout	366
Maximum length	367
Maximum value	367
Maximum value part support	367
MCR-1.1 Colistin-resistence gene target	368
Arithmetic mean	368

Table of contents

Measurement group	369
Measles	369
Measles Group	369
Other Measure	370
Measures quality set	370
Measure	371
Measure input (wide table)	371
Measure license	371
Measures	372
Measure name (wide table)	372
Report ID	373
Measure report table	373
Measure set report set ID	373
Measure set report table	374
Measure sets table column order	374
Measure Set table required headers	375
Measures table column order	375
Measures table required headers	375
Median	376
membrane filtration with addition of mgcl3	376
Normalized arithmetic mean	376
Other Measure Description	377
Measures Part-type Shorthand	377
Methods part-type Shorthand	377
Metabolite Group	378
Method	378
Concentration method	378
Concentration method set	379
Method input (wide table)	379
Method name (wide table)	380
Methods	380
Membrane filtration with acidification and mgcl2	380
Membrane filtration with acidification and mgcl2, membrane recombined with separated solids	381

Table of contents

Membrane filtration with addition of mgcl2	381
Membrane filtration with mgcl2 and separated solids	381
Membrane filtration with no amendment	382
Membrane filtration with no amendment, membrane recom- bined with separated solids	382
Membrane filtration with sample acidification	383
Membrane filtration with sample acidification, membrane recombined with separated solids	383
Millions of gallons per day (MG/D)	383
Mycoplasma genitalis	384
Milligrams per litre	384
Murine Hepatitis Virus	384
murine hepatitis virus (MHV) spike target	385
Multiple issues	385
Mid-level severity	386
Minimum length	386
Minutes	386
Minimum value	387
Minimum value part support	387
Miscellaneous attribute group	387
Miscellaneous measure group	388
Missingness	388
Missingness Set	388
Missingness sets	389
MIT	389
MIT No Attribution	390
Mixed/homogenized sample	390
Millilitres	390
Megalitres per day (ML/d)	391
Method Limit of Detection (LOD)	391
Millimetres	392
Measure, Method, or Attribute Set Header	392
Measure, method, or attribute sets	392
Model	393

Table of contents

monarch total RNA miniprep kit (new england biolabs) + onestep PCR inhibitor removal kit (zymo)	393
Months	393
Moore swab passive sample	394
Mozilla Public License 2.0	394
Mpox	395
MPox Clade I Group	395
MPox Clade II Group	395
MPox Group	396
Metres per second	396
Metapneumovirus Group	397
Mpox B6R Gene Target	397
Clade I Mpox C3L Gene Target	397
Mpox Clade I	398
Mpox Clade II	398
Mpox & Orthopox E9L-NVAR Gene Target	399
Mpox & Orthopox E9L-OPX3 Gene Target	399
Mpox Clade I F3L Gene Target	399
Mpox G2R-G Gene Target	400
Mpox G2R-NML Gene Target	400
Clade II Mpox G2R-WA Gene Target	401
Mpox GT Molecular Gene Target	401
Measure report table Shorthand	402
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	402
Measure set report table Shorthand	402
ms2 coliphage	403
ms2 coliphage spike target	403
Matrix spike duplicate	403
Microsoft Public License	404
Moore swab passive sample depreciated	404
Major sewer pipeline	405
Mycobacterium tuberculosis	405
Mu	405
murine coronavirus	406

Table of contents

murine coronavirus spike target	406
Multiple fraction	406
Mulan Permissive Software License, Version 2	407
Multiple Purpose	407
Mumps	408
Mumps Group	408
Municipalities or communes	408
Municipality	409
Mutations class	409
Mycoplasma Group	410
N sars-cov-2 gene target	410
Combined N1 and N2 sars-cov-2 gene target	410
Influenza A N1 neuraminidase gene	411
Omicron Variant n211i mutation	411
Omicron Variant n679k mutation	411
Omicron Variant n856k mutation	412
Omicron Variant n969k mutation	412
Not applicable	413
Aggregation not applicable	413
Aggregation scale not applicable	413
Aggregation set not applicable	414
Class not applicable	414
Compartment not applicable	414
Compartment set not applicable	415
Domain not applicable	415
Group not applicable	416
Name	416
English name for countries	416
Official state name	417
Not a number	417
Nomenclature not applicable	418
Specimen not applicable	418
Specimen set not applicable	418
Native Name	419

Table of contents

Unit not applicable	419
Unit set not applicable	419
National Center for Biotechnology Information	420
Nomenclature from the NCBI	420
NCBI - notes	421
University of Illinois/NCSA Open Source License	421
Neighbourhood	421
Local administrative units or neighborhoods	422
Population of newly vaccinated persons	422
NextClade nomenclature	422
Normalized geometric mean	423
Neisseria gonorrhoeae	423
Ammonium Nitrogen	423
n iid_2019-ncov_n sars-cov-2 gene target	424
Nano-molar	424
No quality concerns	425
Sample not labelled	425
No liquid concentration, liquid recombined with separated solids	425
Nomenclature	426
Nomenclatures	426
No rain	427
NORMAN	427
NORMAN - notes	427
Norovirus	428
Norovirus G1	428
Norovirus G2	428
Norovirus GI Group	429
Norovirus GII Group	429
Norovirus Group	429
No Separation or Concentration	430
Notes	430
Sample missing time stamp	431
Not reported	431

Table of contents

Not reported, Not applicable missing set	431
Sarbecovirus-specific N sars-cov-2 gene target	432
NTC Amplification Detected	432
Nephelometric turbidity unit	432
Nuclisens automated magnetic bead extraction kit	433
nucleomag (ref. 744220.4) using kingfisher automated instrument	433
Nuclisens manual magnetic bead extraction kit	434
Null	434
ISO 3166-1 numeric country code	434
Number of NTCs per Run	435
National Wastewater Surveillance System	435
NWSS - notes	436
NWSS - process	436
Water	436
coronavirus OC43	437
oc43 spike target	437
Ocean, natural water body	437
Other Collection depreciated	438
SIL Open Font License 1.1	438
Lab Analysis	439
Omicron BA.1	439
Omicron BA.2	439
Omicron BA.2.75	440
Omicron BA.4	440
Omicron BA.5	440
SARS-CoV-2 Omicron Variant Group	441
Onset date	441
Online Sensor	441
Ontology reference	442
Value out of range	442
Open license not otherwise described	443
Orthophosphates	443
Organization table Shorthand	443

Table of contents

Other residential building	444
OR Boolean aggregation	444
ORF1a sars-cov-2 gene target	444
ORF1ab sars-cov-2 gene target	445
ORF1b sars-cov-2 gene target	445
Organism	446
Organization ID	446
Organization table	446
Organizations table column order	447
Organziation table required headers	447
Organization level	447
Organization level set	448
Organization sector	448
Organization sector set	449
Organization Type	449
Organization type set	449
Sample origin	450
Sample Origin set	450
Orthopox Virus Group	450
Open Software License 3.0	451
Other Collection depreciated	451
Other aggregation scale	452
Other	452
Other aggregation set	452
Other aggregation deprecitated	453
Access to other prov deprecitated	453
Other report table set	454
Variants Other	454
Other Site - sample depreciated	454
Other Site - Site depreciated	455
Other Unit deprecitated	455
Value is an outlier	456
Outbreak	456
Outbreak End	457

Table of contents

Outbreak - on-going	457
Outbreak class	457
Outbreak set	458
Outbreak start	458
Delta Variant p100l mutation	458
Omicron Variant p13l mutation	459
Delta Variant p2046l mutation	459
Delta Variant p2287s mutation	459
Omicron Variant p3395h mutation	460
Delta Variant p681r	460
Parts Look-up table Shorthand	461
polymerase activation	461
Paired Layout	461
Pangolin nomenclature	462
Papillomavirus Group	462
Paraxanthine (PARA)	462
Parainfluenza Group	463
Parapoxvirus Orf Virus Spike Target	463
Parent dataset ID	464
Parent sample ID	464
Parent Site ID	464
Part description	465
Part identifier	465
Part instruction	466
Parts Look-up table	466
Parts table column order	467
Parts table required headers	467
Part Support	467
Part types	468
Part type input (wide table)	468
Part type name (wide table)	469
Passive Sample - General	469
Pasteurized sample	469
Primary Clarifier Effluent depreciated	470

Table of contents

Postal or Zip Code	470
qPCR Class	471
PCR Action/Activity	471
PCR action/activity set	471
PCR method	472
PCR quality set	472
PCR sequencingsSelection method	472
PCR Method set	473
Primary Clarifier Sludge depreciated	473
Primary clarifier effluent	473
Polyethyleneglycol (PEG) precipitation	474
Percent	474
Percent recovery	475
pH	475
Access to phac	475
PHAGE	476
Bacteriophage Group	476
PHAGE - notes	476
pH class	477
Phenol chloroform	477
Pseudomonas virus phi6	478
phi6 spike target	478
Country national phone prefix	478
Total phosphorous	479
Total Phosphates	479
PHRED quality score	479
Physical property	480
Physical class	480
Primary key	481
Plasmodium	481
PMMoV- and flow-normalized mean	481
PMMoV Group	482
PMMoV-normalized mean	482
PMMV forward primer (ABI)	483

Table of contents

PMMV probe (ABI)	483
PMMV reverse primer (ABI)	483
Polygon table Shorthand	484
Post-Grit depreciated	484
Policy and political sector or organization	484
Poliovirus Group	485
Polygon ID	485
Polygon table	485
Polygons table column order	486
Polygon table required headers	486
Polygon Population	487
Pooled	487
Population	487
Type of date for case reporting depreciated	488
Population equivalents	488
Population group	489
Population Served	489
Population unit set	489
Port or Harbour	490
Population or sample set	490
Population or site set	491
Population specimen set	491
PostgreSQL License	491
Percent positive	492
parts per million	492
PMMoV-CP	492
Percent positivity rate	493
Percent primary sludge	493
Protocol relationships table Shorthand	493
Precipitation class	494
Precipitation unit set	494
Storage temperature prior to concentration	495
Storage time prior to concentration	495
Storage temperature prior to extraction	495

Table of contents

Storage time prior to extraction	496
Pretreatment	496
Genetic primer	497
Genetic primer set	497
Private sector	497
Private data - not for dissemination	498
Protocols table Shorthand	498
Processing group	498
Program decription tables	499
promega automated tna kit	499
promega wastewater large volume tna capture kit	500
promega ht tna kit	500
promega manual tna kit	500
promega wastewater large volume tna capture kit	501
Proportion of total	501
Proportion of variant in sample	501
Proteins class	502
Protocol ID	502
Protocol ID container	502
Protocol ID object	503
Protocol ID subject	503
Protocol relationships table	504
Synthetic ID for the protocolRelationships table	504
Protocol relationships table column order	505
Protocol Relationship table required headers	505
Protocol Relationships set	506
Protocols table	506
Protocols table column order	506
Protocols table required headers	507
Protocol steps table	507
Protocol steps table column order	507
Protocol steps table required headers	508
Protocol table set	508
Protocol version	508

Table of contents

Access to prov ha	509
Provisional report	509
Protocol steps table Shorthand	510
Pseudomonas	510
Pseudomonas Group	510
Primary clarifier sludge	511
Pumping station	511
Post-grit	511
Pretreatment description - depreciated	512
Number of positive tests	512
Public health agency	513
Access to public	513
Puro virus	513
Puro virus spike target	514
Purpose	514
Purpose set	514
Poliovirus type 2	515
q19e omicron-variant gene target	515
q493r omicron-variant gene target	515
q498r omicron-variant gene target	516
q954h omicron-variant gene target	516
Quality assurance method	517
Quality concerns	517
qiagen allprep dna/rna kit	517
qiagen digital PCR	518
qiagen ez1 virus mini kit v2.0	518
qiagen allprep powerfecal dna/rna kit	518
qiagen allprep powerviral dna/rna kit	519
qiagen powerwater kit	519
qiagen qiaamp buffers with epoch columns	519
qiagen rneasy kit	520
qiagen rneasy powermicrobiome kit	520
qiagen allprep dna/rna kit	520
qiagen qiaamp dsp viral rna mini kit	521

Table of contents

Quantitative PCR	521
Quality reports table Shorthand	522
Qualitative	522
Quality control	522
Quality flag	523
Quality indicators	523
Quality Indicator Set Header	523
Quality indicator sets	524
Quality report ID	524
Quality reports table	525
Quality reports table column order	525
Quality report table required headers	525
Quantitative	526
R squared	526
r203m delta-variant gene target	526
R346T Mutation	527
Raindance digital PCR	527
Rainy	528
Random sequencing selection method	528
Ratio	528
Raw wastewater	529
Raw sewage at site	529
Raw sewage downstream from a site	529
Raw sewage upstream from a site	530
IP2 rdrp sars-cov-2 gene target	530
IP4 rdrp sars-cov-2 gene target	531
Date sample received	531
Recovered patients	531
Reference link	532
Regular	532
Regular reports table set	533
Relationship between entities	533
Relative humidity	533
Relative humidity unit set	534

Table of contents

General Relationship Set	534
Representative grab sample	535
Replicate Type set	535
replicate number	535
Primary reporting authority ID	536
Secondary reporting authority ID	536
Reportable	537
Report date	537
Reporter ID deprecated	538
Reporter table deprecated	538
Report table input (wide table)	539
Report table name (wide table)	539
Replicate Type	539
Resuspend COSCa filter collection	540
Research sector or organization	540
Results tables	540
Resuspension method	541
Resuspension method set	541
Retained Element	542
Retained Element Set	542
Retention pond	542
Rickettsia	543
Rickettsia Group	543
River, natural water body	543
RNA Template	544
Ribonuclease P (RNase P)	544
Role of contact	544
Rotavirus	545
Rotavirus Group	545
Rate per 100,000	546
Revolutions per minute (RPM)	546
Raw post-pasteurized wastewater	546
Respiratory syncytial virus A and B combined	547
Respiratory syncytial virus A	547

Table of contents

Respiratory syncytial virus B	548
Respiratory syncytial virus (RSV) Group	548
Respiratory syncytial virus	548
RSV N-gene	549
reverse transcription	549
Rubella	550
Rubella Group	550
s2083i omicron-variant gene target	550
s371l omicron-variant gene target	551
s373p omicron-variant gene target	551
s375f omicron-variant gene target	551
s477n omicron-variant gene target	552
Sample	552
Salmonella	553
Salmonella Group	553
Sample material	553
Sample concentrate	554
Sample ID	554
Sample ID object	554
Sample ID subject	555
Sample material set	555
Sample quality set	556
Sample relationships table	556
Synthetic ID for the sampleRelationships table	556
Sample relationships table column order	557
Sample relationships table required headers	557
Sample relationships set	558
Sample report table	558
Sample shed	558
Samples table column order	559
Sample table required headers	559
Collection other deprecated	560
Sapovirus	560
Sapovirus Group	560

Table of contents

Sample relationships table Shorthand	561
SARS-CoV-2	561
Sample report table Shorthand	562
Sample specimen set	562
Sparse coverage	562
Secondary clarifier effluent depreciated	563
Standard curve frequency	563
School	564
sciencell viral rna isolation kit	564
Sequencing script version set	564
Genetic sequencing script version	565
Secondary clarifier sludge depreciated	565
Standard deviation	565
Normalized standard deviation	566
Sets look-up table Shorthand	566
Sea, natural water body	566
Seconds	567
See unit (aggregation scales)	567
See unit (data type)	568
See unit (value)	568
Secondary clarifier effluent	569
Access to self	569
Date sample was sent	569
Septic tank wastewater	570
Septic tank	570
Sequencing Layout	570
Sequencing Layout set	571
Sequencing quality set	571
Sequencing selection method	571
Sequencing selection method set	572
Sequencing Strategy	572
Sequencing Strategy set	573
Genetic sequences class	573
serial dillution	573

Table of contents

Serial dilution	574
Sewer Sediments Depreciated	574
Composite Set ID	574
Set ID	575
Sets look-up table	575
Sets table column order	576
Sets table required headers	576
Settled solids	576
Set type	577
Severity indicator	577
Severity set	577
Sewage equivalent	578
Sewer network file link depreciated	578
Sewage travel time	579
S sars-cov-2 gene target	579
Shaker agitation speed	579
Samplesheded set	580
Shigella	580
Shigella Group	580
Ship	581
Shipped on ice	581
Short names	582
Short Name Set	582
Sites table Shorthand	582
Single	583
Single Layout	583
Singleplex, probe-based, one-step RT-qPCR	584
Site or sample specimen set	584
Site specimen set	584
Site	585
Site ID default	585
Site features group	585
Site ID	586
Site measure ID	586

Table of contents

Sites table	587
Sites table column order	587
Sites table required headers	587
Site Type	588
Site set	588
Skimmed milk flocculation	588
Sample Limit of Detection (LOD)	589
slope	589
Wastewater Sludge - non-specified	590
Sewer network file link depreciated 2	590
Snowy	591
Solid fraction	591
Solids/Pellet retained	591
Solid seperation	592
Solid separation set	592
Wide name source	592
Source Protocol ID	593
Protocol step source ID	593
Sovereign status of a country	594
Specific humidity	594
Specific humidity unit set	594
Specifies	595
Specimen	595
Specimen input (wide table)	596
Specimen name (wide table)	596
Specimens	596
Specimen Set Header	597
Specimen sets	597
Speed class	597
Speed Unit Set	598
Spike matrix and recovery	598
Spike Concentration	599
Spike material	599
Spike material set	599

Table of contents

Recovery efficiency spike target	600
Recovery efficiency spike target set	600
Sample spilled	601
Secondary clarifier sludge	601
Social services shelter	601
Stabilization pond	602
Standard concentrations class	602
Standard curve class	602
Staphylococcus Group	603
Departments, states, or provinces	603
State, Province, or Region	603
Status	604
Status set	604
Standard concentration unit set	605
Standard Curve Calculation Method	605
Standard Curve Calculation Set	605
Shiga-toxin-producing Escherichia coli (STEC)	606
Storage temp	606
Protocol Step ID	607
Step ID Object	607
Step ID Subject	608
Method step parent ID	608
Protocol step version	609
Standard Error	609
Sewer network file blob	609
Storage time	610
Streptococcus Group	610
Streptococcus pneumoniae	610
Summary worksheet Shorthand	611
Sub-variant or lineage	611
Sucralose	612
Rolling sum of previous 14 days	612
Summary	612
Summary worksheet	613

Table of contents

Sunny	613
Surface compartment	614
Other surface	614
Surface compartment set	614
Surface and water compartment set	615
Surface swab	615
Sewage truck	615
Sewer sediment	616
Sewer catchment area	616
Synthetic sample	616
t19r delta-variant gene target	617
t3646a delta-variant gene target	617
t547k omicron-variant gene target	618
t9i omicron-variant gene target	618
Tables	619
Table column set	619
Table Support	620
TaqPath N sars-cov-2 gene target	620
TaqPath S sars-cov-2 gene target	620
Sample temperature	621
Temperature class	621
Temperature unit set	621
Template Sheet Set	622
Nucelic Acid Template Type	622
Nucleic acid template volume	623
Airport terminal	623
Test date	623
Number of tests performed	624
Testing	624
Tetracycline Anti-microbial resistance Group	624
TetW Tetracycline-resistance gene target	625
thermo magmax microbiome ultra nucleic acid isolation kit	625
thermo magmax viral/pathogen nucleic acid isolation kit . .	626
Transport hub - General	626

Table of contents

Time class	626
Time proportional sample	627
Time unit set	627
Total Kjeldahl Nitrogen	627
Country code top-level domain	628
Total Nitrogen	628
Total amount or count - the sum	629
Time Proportional 24hr sample	629
Treponema pallidum	629
Translation look-up table Shorthand	630
Train	630
Synthetic ID for the translations table	630
Translation look-up table	631
Translation table column order	631
Translation table required headers	632
Transportation vehicle - general	632
Passive (trap) sampling	632
Treponema Group	633
Trichomonas Group	633
Wastewater Triturator	633
trizol, zymo mag beads w/ zymo clean and concentrator . .	634
trizol, garnet bead beating, alcohol precipitation	634
trizol and RNA purification kit	635
Train Station	635
TRUE	635
Total solids concentration	636
Total suspended solids	636
Concentration of total suspended solids	636
Tuberculosis Group	637
Francisella tularensis (tularemia) Group	637
Turbidity	638
Turburdity class	638
Turbidity unit set	638
Trichomonas vaginalis	639

Table of contents

Tube weight empty	639
Tube weight full	639
Type other depreciate	640
Type other depreciate2	640
University campus	641
Micrograms per gram	641
Micrograms per litre	641
Micrograms per milligram	642
Micro-litres	642
Undisclosed	642
Unique sample	643
Unit	643
Unit input (wide table)	644
Unitless measure	644
Unitless unit set	644
Unit name (wide table)	645
Units	645
Unit set	645
Unit sets	646
The Unlicense	646
Ultracentrifugation	647
Upper limit of a 95% confidence interval	647
Upstream sites	648
Ureaplasma	648
Ureaplasma	648
Micro-Siemens per centimetre	649
U site measure ID	649
Coordinated universal time (UTC) zone	649
Coordinated universal time (UTC) zone in daylight savings	650
Utilities sector or organization	650
V1104L Mutation	651
v2930l delta-variant gene target	651
Vacuum sludge sampling	651
Validation study	652

Table of contents

Value	652
VanA-A Vancomycin-resistance gene target	652
Vancomycin Anti-microbial resistance Group	653
Vancomycin resistance	653
Variable character data type	654
Frequency of variants detected	654
Variants class	654
Varicella	655
Varicella Group	655
Population with 1 dose of vaccine	655
Proportion of population with 1+ vaccine dose(s)	656
Population with 1+ dose(s) of vaccine	656
Population with 2 or more doses of vaccine	657
Proportion of population with 2+ vaccine doses	657
Population with 2+ or more doses of vaccine	657
Population with 3 or more doses of vaccine	658
Proportion of population with 3+ vaccine doses	658
Population with 3+ or more doses of vaccine	659
Population with 4 or more doses of vaccine	659
Proportion of population with 4+ vaccine doses	660
Population with 4+ or more doses of vaccine	660
ODM V1 category	660
ODM V1 location	661
ODM V1 table	661
ODM version 1 to 2 changes	661
ODM V1 variable	662
Vertical grab sampling	662
Vibrio	663
Vibrio Group	663
Miscellaneous viruses group	663
Size in volume	664
Volume proportional sample	664
Volume unit set	665
Volatile suspended solids	665

Table of contents

Volatile suspended solids - ignition	665
Vesicular stomatitis virus (VSV) target	666
VSV forward primer (ABI)	666
VSV probe (ABI)	667
VSV reverse primer (ABI)	667
Vesicular Stomatitis Virus (VSV) Group	667
Verotoxin-producing Escherichia coli (VTEC)	668
Water compartment	668
water concentrating buffer (R2042-1)	668
Water depreciated	669
Water compartment set	669
Water Quality Group	670
Water-based Transit Hub	670
Wastewater temperature	670
Weather	671
Weather class	671
Weather set	671
West Nile	672
Whole genome sequencing	672
WHO nomenclature	673
Wide 95% interval	673
Specified attribute (wide table)	673
Measure identification (wide table)	674
Wide Name	674
Wide name table	674
Wide name table order	675
Wide name table required	675
Wide name type	676
Specified protocol (wide table)	676
Wind Speed	676
Wind speed unit set	677
Wide name table Shorthand	677
Sample stored incorrectly	677
Sample stored at wrong temperature	678

Table of contents

World Sphere (W-SPHERE)	678
World Sphere (W-SPHERE) notes	678
Delta Variant wt214 gene target	679
Do What The F*ck You Want To Public License { #wtfpl }	679
Wastewater treatment plant	680
Back-up wastewater treatment site	680
Wastewater treatment plant designed capacity	680
Industrial wastewater treatment plant	681
Municipal wastewater treatment plant for combined sewage	681
Municipal wastewater treatment plant for sanitary sewage only	682
Relative Centrifugal Force (RCF) or x g units	682
y505h omicron-variant gene target	682
Years	683
Yersinia enterocolitica	683
Yersinia Group	683
Zika	684
zLib License	684
Zones look-up table Shorthand	685
English name of country sub-domains	685
Zones look-up table	685
Zones table column order	686
Zones table required headers	686
zymo quick-rna viral kit #r1035	686
zymo quick-rna viral 96 kit #r1041	687
zymo environ water rna kit/ zymo environ water rna kit (cat. r2042)	687
zymo quick-rna fungal/bacterial miniprep #r2014	687
zymo environ water rna kit/ zymo environ water rna kit (cat. r2042)	688
Sets	689
Aggregations	689
Aggregation scales	692

Table of contents

Aggregation sets	692
Boolean aggregation set	693
Linear scale aggregation set	693
Logarithmic scale aggregation set	694
Aggregation set not applicable	695
Other aggregation set	696
Attributes	697
Classes	720
Compartments	723
Compartment sets	724
Air compartment set	724
Air and surface compartment set	725
Air and water compartment set	725
Any compartment set	725
Human compartment set	726
Compartment set not applicable	726
Surface compartment set	726
Surface and water compartment set	727
Water compartment set	727
Data types	727
Dictionary set type	728
Airport Sheets Set	729
Contact table set	729
Crosswalk table set	730
Dictionary reference table set	731
ERD table set	732
Full dictionary sheets set	735
List set	737
Other report table set	739
Protocol table set	739
Regular reports table set	740
Template Sheet Set	740
Domains	743
Groups	743

Table of contents

Measures	753
Methods	786
Missingness	788
Missingness sets	789
General missingness set	789
Not reported, Not applicable missing set	790
Measure, method, or attribute sets	790
Boolean value set	790
Sample collection set	791
Nucleic Acid Extraction set	792
Sample fraction set	796
Geographic set	797
Inhibition set	797
Instrument set	797
Data license set	798
Concentration method set	803
Organization level set	805
Organization sector set	806
Organization type set	807
Sample Origin set	807
Outbreak set	808
PCR action/activity set	808
PCR Method set	809
Genetic primer set	810
Protocol Relationships set	812
Purpose set	812
General Relationship Set	813
Replicate Type set	814
Resuspension method set	815
Retained Element Set	816
Sample material set	816
Sample relationships set	819
Sequencing script version set	820
Sequencing Layout set	820

Table of contents

Sequencing selection method set	821
Sequencing Strategy set	821
Severity set	821
Samplesheds set	822
Short Name Set	825
Site set	828
Solid separation set	831
Spike material set	832
Recovery efficiency spike target set	832
Status set	834
Standard Curve Calculation Set	835
Table column set	835
Weather set	835
Nomenclatures	836
Quality indicators	837
Quality indicator sets	840
Generic quality flag set	841
Measures quality set	841
PCR quality set	844
Sample quality set	846
Sequencing quality set	847
Specimens	848
Specimen sets	849
Any specimen set	849
Specimen set not applicable	849
Population or sample set	850
Population or site set	850
Population specimen set	850
Sample specimen set	851
Site or sample specimen set	851
Site specimen set	851
Tables	852
Units	854

Table of contents

Unit sets	864
Absolute humidity unit set	864
Allele unit set	864
Bacteria unit set	866
Capacity unit set	866
Conductivity unit set	866
Dissolved gas concentration unit set	867
Volume flow rate unit set	867
Genetics unit set	868
Unit set not applicable	869
Population unit set	870
Precipitation unit set	872
Relative humidity unit set	872
Specific humidity unit set	872
Speed Unit Set	872
Standard concentration unit set	873
Temperature unit set	874
Time unit set	874
Turbidity unit set	875
Unitless unit set	875
Volume unit set	875
Wind speed unit set	876

Tables	877
Table types	877
Header roles	878
Mandatory, optional, mandatoryIf	879
Table list	879
Address table	881
Contact table	882
Countries look-up tables	883
Dataset table	884
Instrument table	885
Language Look-up table	886

Table of contents

Measure report table	888
Measure set report table	889
Organization table	890
Parts Look-up table	890
Polygon table	900
Protocol relationships table	901
Protocols table	902
Protocol steps table	902
Quality reports table	903
Sample relationships table	904
Sample report table	904
Sets look-up table	906
Sites table	907
Translation look-up table	908
Wide name table	909
Zones look-up table	911

Introduction

Dictionary v2.2.3 Documentation v2.1.0

Facilitating the Collection and Sharing of High-Quality, Interoperable Environmental Surveillance Data: A Community Open Science Project.

The Public Health and Environmental Surveillance Open Data Model (PHES-ODM or ODM) is an open-source data model and set of tools aimed at promoting global collaboration and use of environment and public health data. The ODM model facilitates interoperable environmental surveillance and research by improving quality reporting data, enhancing data management, and supporting data provenance and sharing.

This documentation is intended for those who want to understand how the ODM model works, its organizational structure, and how to use it effectively for their program. It is also a useful resource for those who currently use a different data dictionary and wish to share their data with a program that uses the ODM. If you need to share your data with another program that uses a different data dictionary, this documentation can help you compare and create a common cross-walk between dictionaries. The ODM starts as a conceptual model that represents real-world processes through data elements and data relationships, which are common to all environmental and public health surveillance systems.

Introduction

How to use the documentation

There are three document sections, each with a different purpose.¹

Getting to know the ODM is oriented to understanding the ODM. This section explains the ODM, its structure, and how the model was designed and developed.

How to use the ODM are step-by-step guides to help you use different aspects of the ODM such as report templates.

Reference is a description of each part of the ODM. It serves as a reference for the other sections, and the definitive record of each part, table and set – along with their attributes.

Future documentation

Tutorials and videos are being developed. Tutorials will help newcomers get started. They will be lessons on how to:

- Describe a protocol using protocol tables.
- Make wide names and report templates using wide names.

Quick start

You can get to know the ODM by imaging how to record a polymerase chain reaction (PCR) test result for SARS-CoV-2 from a wastewater sample.

¹[David Laing and Divio's Grand Unified Theory of Documentation](#).

1. Get oriented to the ODM tables where you record results

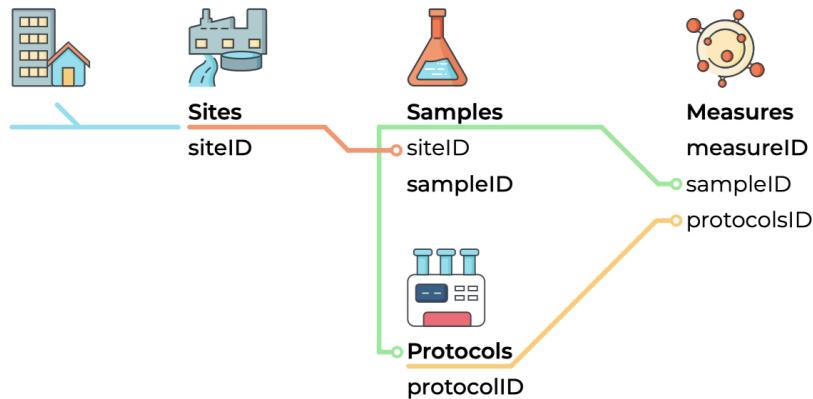


Figure 1.: Figure 1 - Key ODM tables for recording data

The Sample report table ([samples](#)) and the Measure report table ([measures](#)) are where you record information about samples and measures.

2. View mandatory and optional data fields in the tables reference guide

You can view mandatory and optional data field here: ([samples](#)) and ([measures](#)). ‘Mandatory’ means they are fields are needed to ensure interoperability.

Introduction

💡 What are ODM parts and how to find them?

In the ODM, tables are an example of an part. A part name can be identified by its text style like **this**. The part identifier often follows the part in parenthesis, with a link to the part in the reference section. So, **Sample report table** is the part name, and **(samples)** is the part ID and link to the documentation for that part.

You can find out more about parts on the [reference guide section](#).

3. Try entering example data in ODM Excel templates

Keep in mind, ODM templates are only examples of how to use the ODM dictionary to record data. Templates are available at [OSF.io](#). The '[How to use the ODM](#)' section describes how to enter information into tables.

Storing sample data in an ODM template

A **sample** (**sampleID**) is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. The sample template stores one sample per row. The **Sample report table** has seven mandatory fields that are listed in the [reference[(tables.qmd#samples)]] for the table.

<https://vimeo.com/802349692>

Storing measure data in an ODM template

A **measure** (**measure**) is an observation or measurement of any substance, including biological, physical, or chemical substances, obtained from a specimen such including a site, sample, person, or population. Each measure is stored in the **Measures table** template as a separate row, following

Quick start

the “long” table format, which is the primary method for storing measures. For example, if you recorded PCR results for two SARS-CoV-2 regions, covN1 and covN2, you would record each measurement on a separate line. Alternatively, you can use a “wide” table format to store multiple measures in a single row or create tables that combine both long and wide headers. The [European Union airport template](#) is a hybrid template that exemplifies this (found in the “Airports” folder).

(Video)

4. Next steps

In addition to recording measures from samples, you can also record measures for a specific site, such as wastewater flow rate (flowRate), or the population served by the site, such as the Covid-19 hospitalization rate for a wastewater treatment plant’s wasteshed or municipality. **Figure 2** illustrates the these three types of measurements: `sample`, `site`, and `population`.

The “who, where, and why” of these measurements is stored in contact tables, while the “how,” which refers to the measurement protocol or method, is stored in the protocols tables.

Introduction

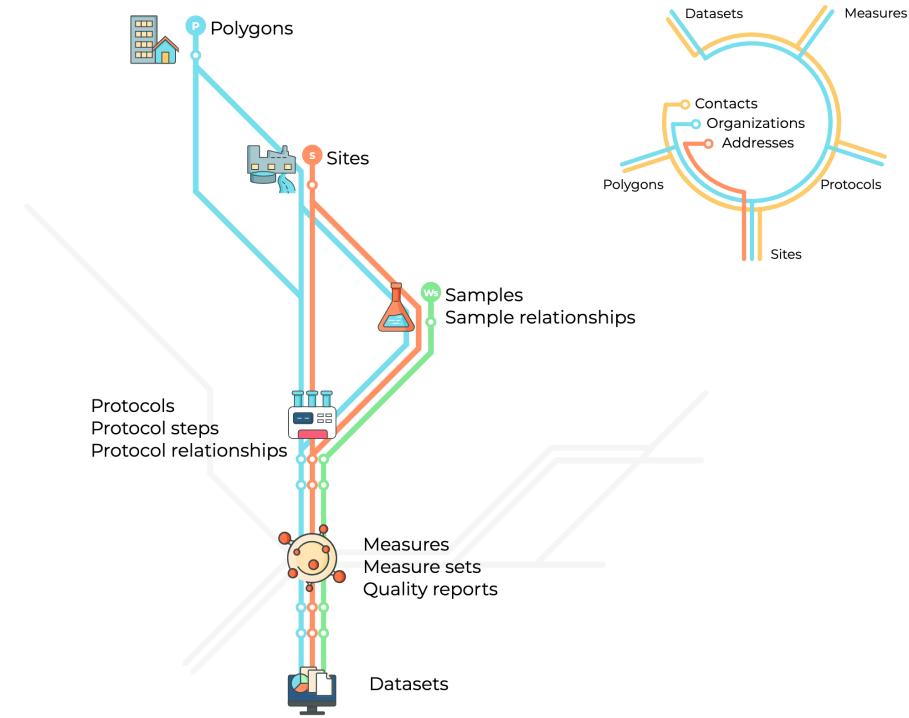


Figure 2.: **Figure 2 - ODM tables and ‘subway’ lines for storing measures**

Getting help

We hope that the documentation serves its purpose and that you find it useful in figuring out how to best use the ODM and its suite of tools. If you do encounter any issues or questions that do not seem to have an easy answer, please [create an issue on our GitHub repository](#) or consult our [Discourse page](#).

Background

Dictionary v2.2.3 Documentation v2.1.0

The ODM is designed to support a broad range of users in the field of environmental surveillance, including wastewater laboratories, municipalities, public health agencies, researchers, and citizen scientists. Its goal is to provide a comprehensive and extensible approach to data collection and management across the lifecycle of environmental surveillance, from sample collection and analysis to public reporting.

The ODM dictionary includes provisions for a wide range of biological, chemical, and physical properties, such as antimicrobial resistance, drugs, and toxins, as well as metadata for laboratory protocols that may affect measurement consistency across laboratories. The ODM supports laboratory information and management systems (LIMS) with measures to describe ensure data quality control and provenance.

To support the open science principle of FAIR data (Findable, Accessible, Interoperable, and Reusable), the ODM strives to make its data easily discoverable, accessible, and usable by all stakeholders.² It also adopts an open-source approach, allowing anyone to inspect, modify, and enhance the codebase in a transparent and collaborative manner on platforms like GitHub.

While the ODM is a complex dictionary, it includes tools to support its use, such as data validation, input templates, and SQL database definitions for data storage. Additionally, it supports collaborations among

²[FAIR Principles](#).

Background

different organizations seeking to share and combine samples and measurements. As an open model, third parties can extend the model, such as the European Union Digital European Exchange Platform (EU4S-DEEP) data templates for wastewater surveillance at airports, European Union [Digital European Exchange Platform \(EU4S-DEEP\)](#) data templates for wastewater surveillance at airports, the [CETO Epidemiologic platform](#), and [Ottawa Automatic Data Pipeline](#) to analyse qPCR data and transform it to ODM format.

Overall, the ODM aims to support the evolving field of environmental surveillance and science by providing a standardized, extensible approach to data collection and management.

Getting to know the ODM

Dictionary v2.2.3 Documentation v2.1.0

What are “Parts” and “Part Types”?

Within the ODM, every component or element of the model and the dictionary is called a “part”. Parts are grouped into “part types”.

Because the term “parts” refers to every component of the ODM, “part types” are a way to differentiate between parts which have different functions and structures. The three most important part types are:

- **Measures:** A measurement or observation of any substance including a biological, physical or chemical substance.
- **Methods:** A procedure for collecting a sample or performing a measure.
- **Attributes:** A description of the who, where, when, and why of environmental surveillance.

See the [parts reference document](#) for more details.

There are additional part types to support the dictionary including:

- Aggregations
- Aggregation scales
- Categories
- Classes

Getting to know the ODM

- Compartments
- Dictionary support
- Domains
- Groups
- Missingness
- Nomenclature
- Quality indicators
- Specimens
- Tables
- Units

For information and details about all the part types, please see the [parts reference document](#).

“Sets” and the rationale behind sets

“Sets” are a way of grouping together different possible categorical inputs within the ODM. The purpose behind sets is to group options together so that users only need to check a few options from a drop-down menu, rather than scroll through a long list. Sets are also designed so that a single part can be used in multiple sets, which avoids the need to create multiple versions of this part for these different use contexts. For example, if you’re taking a measure of concentration, that measure will likely populate the unit choice drop-down list with units from the “standard concentration unit set”. Units in this set include Milligrams per litre, parts per million, and Percent Primary Sludge. Similarly, if one were measuring the amount of oxygen in a wastewater sample they would be offered units from the “dissolved gas unit set”. The units in this set include parts per million, and Milligrams per litre. You see here how Milligrams per litre is used twice across the sets, but exists still as a single part in the parts list. Unit sets are only one type of set, with the others being:

- Aggregation sets

The “what” and “why” of Specimen IDs

- Compartment sets
- Quality sets
- Specimen sets

Details about these sets are their similar - but unique - applications can be found in the [parts reference document](#). Importantly, “category sets” are not considered a “set” like these others. See the section below for an explanation of this difference.

Why category sets are treated differently

One of the reasons why “sets” are set up and organized the way that they are, is to allow for the re-use of parts in multiple sets. Category sets are, however, an exception to this rule because the categories that make up a category set are used in only one set. Furthermore, the general sets are needed for almost every measure or method (which require unit, aggregation, quality, and compartment information), while category sets are used only in specific circumstances for specific fields. These are things such as collection metadata (example: Sample collection category set), dictionary metadata and model architecture (example: Data Type Category Set), or more detailed types of certain methods (example: Nucleic Acid Extraction Category Set). Category sets are also a distinct part type, and more information about them can be found in the [parts reference document](#).

The “what” and “why” of Specimen IDs

Specimen IDs indicate the level at which a measure is being done. This can be: a site measure, ie. a measure at a site such as temperature or weather; a sample measure, ie. a laboratory measurement on a sample, such as gene copies of SARS-CoV-2 per mL; a person measure, ie. a measure of something at the level of an individual person, such as a blood pressure reading; or a population measure, ie. an aggregate measure of

Getting to know the ODM

a population, such as the number of confirmed cases of a given illness. While there is currently nothing in version 2.0 of the ODM with uses the person specimen ID explicitly, it has been included to allow for the possibility of storing individual-level data in a future version. The reason specimen IDs were created was so that there could be a single manner in which measures and methods are recorded, regardless of the level at which they were performed, while still maintaining the possibility to collect site, sample, and population measures as a distinct types of metadata.

The “what” and “why” of Groups and Classes

Groups and classes, similar to sets, are ways of grouping together different measures within the ODM. Given that the ODM aims to be as robust as possible and has a very long list of possible measures, groups and classes were designed to give shorter lists of measures in the drop down lists by specifying details about the kind of measure that a user is recording. Groups and classes can work together to further specify what kinds of measures are being reported. For example, the group `sarsCov2` contains many measures, but by specifying that the class is an `allele` or `variant`, the list of possible measures is pared down. Alternatively, class can be said to be non-applicable, paring down the measures in the `sarsCov2` group to only be unspecified measures of the quantity of the virus.

Tables and table types within the ODM

Within the ODM there are three types of tables: program description tables, results tables, and look-up tables. These table types exist to differentiate the function of these tables and to highlight these differences to users. The different tables take different types of inputs and maintenance from users, so understanding the differences can be important.

Measures, Methods, and Attributes: Key parts

Program description tables

Program description tables (represented in yellow in the ERD) are tables used to record metadata on the organizations, locations, methods, and appurtenance. These tables help to describe surveillance and testing programs, and are intended to be updated infrequently.

Results tables

Results tables (represented in blue in the ERD) are the tables used to record details on samples and measures. These tables record the main outcomes data and are updated daily, if not more frequently.

Look-up tables

Look-up tables (represented in green in the ERD) are the tables that are pre-programmed and pre-populated in the ODM. These hold information on sets, all parts, languages, and translation abilities. These are only updated by the ODM team in version updates.

Measures, Methods, and Attributes: Key parts

While there are many part types, there are three main part types users should be most familiar with: measures, methods, and attributes. These three have parallels with the three table types, and the differences and details of these parts are useful to understand.

Getting to know the ODM

Measures

Measures are actually types of measures that can be performed. These can range from temperature to the number of gene copies in a sample. The measure, or `measureID`, can be selected from a drop down in the templates and it specifies the kind of measure you intend to record. The actual value of the measure is then recorded in the `value` field of the `measures` table, with units and aggregation specified in the `unitID` and `aggregationID` fields.

Methods

Similar to measures, methods are types of methods that can be performed to accomplish a measurement. These can be diverse, ranging from incubation, qPCR, or nucleic acid extraction. The method itself (`methodID`) is selected from a drop down in the templates, specifying in general terms the kind of method the user wishes to record. From there, the `value` field of the `methodSteps` table can be populated by one of the inputs from the category set associated with that `methodID`. This provides a higher level of detail for a given method. For example, the `methodID` might be `solidSep` for solid separation of a sample. The `value` field might then be populated with `cent` for centrifugation, indicating more details about how the sample settling was done.

Attributes

Attributes are the largest category of part type, as these refer to most of the fields in the ODM. Attributes are fields for metadata within the ODM and range greatly in the use. They comprise everything from collection dates, to sampling period, to names.

Data quality and reportability

Within the ODM there is a `qualityFlag` field present in both the `samples` and `measures` tables. This field serves to highlight whether or not there is a quality issues with the sample or the measure. The quality flag also allows a user to specify the type of quality issue. This is managed through the use of quality sets, which are the sets that contain the possible quality flags for a given measure or for samples. The idea is that this provides data on any issues with a sample and an indication of the nature of that issue. Having data about the nature and presence of a quality issue is often not sufficient for decision makers who are trying to use and interpret the data. As such, there is also a `reportable` field which is a Boolean indicator of whether or not data can or should be reported or included in final reports and decisions.

Time periods for samples and measures

For measures, there is a field `aDateStart` and `aDateEnd` which specify the date and time that an analysis was begun and finished. This allows for the recording of greater detail around timelines for especially long, multi-day analyses. For shorter analyses, which will likely make up the bulk of reported measures, the same date can be inputted into both fields. The idea is to have the reporting tables for measures be as robust as possible to allow for various kinds of timelines.

For samples, there is `collDT`, `collDTStart`, and `collDTEnd`. The first field is for the collection date and time of a single grab sample, so start and end are not necessary and the other two fields can be left blank. For composite or pooled sample, the start and end date and time for collection is crucial information to know. When these two fields are populated, the `collDT` field can be left blank.

Dates within the ODM

There are a number of date fields within the ODM which all serve different purposes. Collection datetime (`collDT`) is the date a sample was collected, used only for grab samples. This field is left blank if the collection datetime start and end fields (`collDTstart` and `collDTEnd`) have been populated instead. Inversely, collection datetime start and end fields should be left blank if the collection datetime filed has been populated. Similarly, analysis datetime start and analysis datetime end (`aDateStart` and `aDateEnd`) are used to report the date and or timeline of an analysis for a measure.

Date fields that are more related to data processing and laboratory infrastructure are: the last edited date (`lastEdited`) which indicates the last time a table, or a measure or sample details, were last edited or updated; the sent date (`sentDate`), or date that a sample was sent to the lab from the field; the received date (`recDate`), or the date the sample was received in the lab; and the report date (`repDate`), or the date that the analysis results or measures were reported. These give a greater indication of how up to date data is, but also on the speed and efficiency of the pipeline between sampling and reported results. Dates should be reported in day/month/year format to accommodate the most popular global convention.

Translation and language capabilities

The default language of the ODM is English, but French translations of all descriptive elements of the data model dictionary are also available. As additional nation states and partners adopt the ODM, we anticipate that these fields will be translated into other languages as well. The translation capacities are managed through the language look-up table (`languageLUs`), the translation look-up table (`translationLUs`), and the

Recording protocols

parts table (`partsLUs`). When a translation for a given part is not available, the dictionary will default to the English term. The language look-up table stores linguistic and classification codes for spoken human languages, with the most recent ISO639 code being the language ID (`languageID`). In the translation table, the language ID is paired with every part ID (`partID`), along with the label (`partLabel`), description (`partDesc`), and instructions (`partInstr`) translated to that language. The part IDs are linked to the full parts list which otherwise contains metadata that is coded in variables and requires no further translation.

Recording protocols

When analyzing data from various sources, it is important to understand how the data was produced. The PHES-ODM recognizes this and includes protocols as one of its entities. To store protocols efficiently in database tables, several challenges must be addressed:

1. Protocols are comprised of a collection of steps.
2. Protocol steps can consist of two entries:
 - They can prescribe the use of a specific quantity of something. This can be described using the different measures found in the PHES-ODM dictionary and assigning them a prescribed value and unit of measurement.
 - They can prescribe an action. The PHES-ODM calls this a method.
3. Protocol steps must be organised in the right order to convey the meaning of the protocol.
4. Steps may follow each other, or they can be done concurrently.
5. Measures found inside a protocol specify the quantity of reagents, supplies and conditions involved in the realization of a method.

Getting to know the ODM

6. Different protocols may use some of the same steps, but in a different order.
7. Protocols may have steps that consist in one or several (sub)protocols.
8. Protocols can be updated with new versions, or they can reference and build from other protocols.

To solve these constraints, the PHES-ODM stores a protocol (e.g., what it does, who developed it, when it was developed) separately from its constituent steps. These protocol steps are stored in the **Protocol Steps** table. The entries in the steps table are either methods or measures.

The protocol steps are linked together in their own **Protocol Relationships** table. Rows in the relationship table have four main attributes. The first is the protocol identifier. The three other attributes define a relationship between two steps in the protocol. The relationship is expressed in the form:

subject → relationship → object

Where the subject and the object can either be a protocol step or subprotocol. The available relationships (e.g., `is_before`, `specifies`, `is_concurrent_with`, etc.) allows one to organize the protocol in a more semantically meaningful way than by simply using a sequential order.

This flexible structure allows protocol steps and subprotocols to be reused in any number of protocols. The relationships between protocols, protocol orderings, and protocol steps are shown in Figure A.

Recommended formula for user-generated IDs

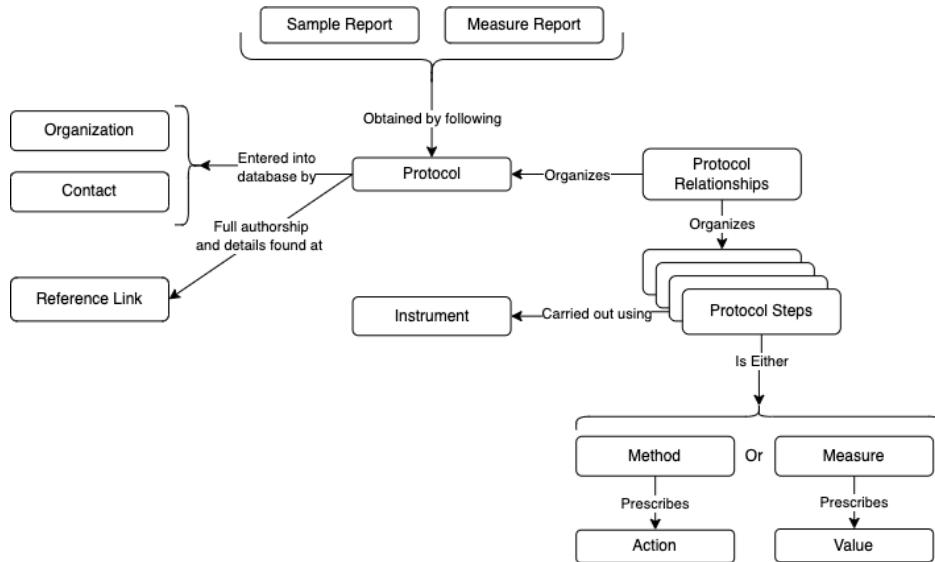


Figure 3.: Figure A: Main entities and relationships used to represent protocols

Recommended formula for user-generated IDs

There are 13 user-generated IDs used in the ODM. These IDs are necessary unique identifiers used to organize observations and metadata. The ODM is not opinionated about IDs, and users are free to use whatever formula or naming convention they prefer for these IDs. We have prepared a recommended formula for these IDs, however, which users are free to use. These are the formulas used by the ODM tools to machine generate IDs where one hasn't been provided. For a quick breakdown, see the below table:

Getting to know the ODM

User ID	Formula	Example
Address ID	country code + province code + 2-3 letters of municipality + row	caOnOtt002
Contact ID	orgID + first 3 letters of role	caOnOtt002UniRes
Dataset ID	datasetID = orgID	caOnOtt002Uni
Instrument ID	first 3 letters of manufacturer + first 3 letters of name + first 3 letters of model + index	fisHanHan
Organization ID	addID + first 3 letters of name	caOnOtt002Uni
Polygon ID	orgID + siteID	caOnOtt002UniCaOnOttOtt
Protocol ID	first 5 letters of name + protocolVersion	pmmov1
Protocol Step ID	orgID + last 3 letters of part ID of method/measure	caOnOtt002UniIon
Quality ID	quality flag part ID + either the measure report ID, the sample ID, or measure set report ID that the quality report is for	flagJcaOnOttOttawasite1202008
Measure report ID	sampleID + part ID of measure + row number	caOnOttOtt20200802Covn1002
Measure set report ID	Report ID of first measure in the set + # measures in the set	caOnOttOtt20200801Covn10020
Sample ID	siteID + collDT/collDTEnd (not including time) + index (if applicable)	caOnOttOtt20200801
Site ID	country code (ISO) + province code (ISO) + first 2-3 letters of municipality + 3 first letters of site name	caOnOttOtt

To go into greater detail, the *Address ID* uses the recipe country code + province code + 2-3 letters of municipality + row. So it's built using pieces of the metadata fields for the given address' entry in the addresses table, and the row it occupies in that table. For example, the ID for an address in Ottawa would use Country Code = Canada, Province Code =

Recommended formula for user-generated IDs

Ontario, Municipality = Ottawa-Carleton, and lets say it's recorded in the second row of the table, so Row = 002. This gives us an address ID of caOnOtt002.

The *Contact ID* in the contacts table uses the recipe organization ID + first 3 letters of role, again building the ID from pieces of the metadata. So if, for example, we are building a contact ID for a research associate at an organization with the ID caOnOtt002Uni, the contact ID would be caOnOtt002UniRes.

For the *Dataset ID*, we recommend it be the same as the *organization ID* (see below). So if, for example, we looked at our organization with the ID caOnOtt002Uni, the dataset ID would also be caOnOtt002Uni.

Instrument ID uses the same approach of building using metadata, with the recipe of first 3 letters of manufacturer + first 3 letters of name + first 3 letters of model + index to generate the ID. For example, if we wanted to record a HandyStep S Repeating Pipetter (name), manufactured by Fisherbrand, and is of the model HandyStep S Mechanical, the recommended ID that is generated would be fisHanHan.

Our recommended recipe for *Organization ID* uses the address ID for an organization (see above for explanation) + the first 3 letters of the name. So if the organization in Ottawa described in the address ID section was the University of Ottawa, the ID would be caOnOtt002Uni.

For the *Polygon ID*, the recipe uses associated IDs to generate the final product. Specifically, we recommend organization ID + site ID. So for a polygon managed by an organization using the ID caOnOtt002Uni and covering a site with the ID caOnOttOtt, for example, the polygon ID would be caOnOtt002UniCaOnOttOtt.

The *Protocol ID* is generated using the first 5 letters of the name + the protocol version. For example, if using generating a protocol ID for a first version of a protocol called "PMMoV Process", the ID would be pmmov1.

Getting to know the ODM

For the *Protocol step ID*, we recommend constructing combining the organization ID + last 3 letters of the part ID for the method or measure used in the step. For example, a nucleic acid extraction method (partID = extraction) step from our university of Ottawa example lab with the organization ID caOnOtt002Uni would generate the protocol step ID of caOnOtt002UniOn.

Quality ID ia generated using the recipe of part ID for the given quality flag + either the measure report ID, the sample ID, or measure set report ID for which the quality report is being generated. Generating an example, if we are reporting the qualaity flag J - Weak signal extrapolation (partID = flagJ) for a measure report with the ID caOnOttOttawasite1202008021000covN1002, we get the quality ID of flagJcaOnOttOttawasite1202008021000covN1002.

The *Measure Report ID* is built using sampleID + part ID of measure + row number. For example, taking a measure of the SARS-CoV-2 N1 gene region (partID = covN1) from a sample with the ID caOnOttOtt20200801, recorded in the second row of the table, we get the measure report ID of caOnOttOtt20200802Covn1002.

The recommended recipe to generate a *Measure Set Report ID* is to use the Measure Report ID of the first measure in the set + the number of measures in the set. So for a set of 3 measures that starts with the same SARS-CoV-2 N1 gene region measure as described above (caOnOttOtt20200801Covn1002), you get the measure set report ID of caOnOttOtt20200801Covn1002003.

Sample ID is generated by combining the siteID for the sample + the collection Datetime OR the end of collection datetime fields (excluding the time and only using the date) + the index value (if applicable). So for a composite sample taken at a site with the ID caOnOttOtt, which finished collection on 2020-08-01 10:00:00, with no index, the sample ID would be caOnOttOtt20200801.

Questions and online community

Lastly, a *Site ID* can be generated by combining the country code (ISO) for the site + the province code (ISO) for the site + first 2-3 letters of municipality + 3 first letters of site name. So to generate a site ID for the wastewater treatment plant in Ottawa, Canada, we would take the ISO code for Canada (ca), for Ontario (on), The first three letters of Ottawa-Carleton (Ott) and the first three letters of the site name, where the name is Robert O. Pickard Environmental Centre (Rob). This gives us the recommended site ID of caOnOttRob.

Questions and online community

If any users have additional questions or issues with the ODM, we invite them to check out our [Discourse Page](#) for discussion boards and community support. For larger issues, and to ask the ODM team to add additional fields or variables into the model, we encourage users to visit the project's [GitHub repository](#) and to create and issue there so that a team member can respond.

How to use the ODM

Dictionary v2.2.3 Documentation v2.1.0

How-To guides

1) How to use templates

ODM Excel report templates provide you with an easy way to enter your wastewater and other environmental data into the relevant PHES-ODM tables (more information about the tables can be found in the [getting-to-know](#) section). The templates also serve as an interactive way to get to know the ODM and can be found at the OSF.io [PHES-ODM reference file folder](#).

The guides below will walk you through each of the report templates. In these guides, “field” refers to a column in the template, and “entry” refers to a row of information that you entered. The guides also provide definitions and explanations for some terms; more complete information can be found in the Reference Guide - [Parts document](#). If you have any questions or comments, you can post them on our [Discourse forum](#).

As a starting point:

- [Sample report](#) and [Measure report](#) tables are used for day-to-day reporting. You can record information about a sample in the [Sample report](#) table. Measures (or measurements) are recorded in

How to use the ODM

the **Measure report** table. A measure is “measurement or observation of any substance including a biological, physical or chemical substance”.

- There are three optional tables that support the reporting of samples and measures:
 - **Sample relationships** is used only when you have samples that are pooled or split.
 - **Measure set report** can be used to link measures together.
 - **Quality reports** is used for detailed quality assurance and control reporting (you can, and should, record a quality flag attribute for each measure or sample in the **Measure report** and **Sample report** tables).
- Typically, there is a one time initial setup where you will need to enter information into the **Sites**, **Address**, **Organization**, and **Contact** tables.
 - **Sites** is mandatory and records information about where testing is performed.
 - **Address**, **Organization**, and **Contact** provide the contact information for sites and entities such as laboratories.
- There are optional supporting tables, such as **Protocols** and **Instrument**, where you can use the templates to record information about how samples are taken and how measures are reported. You only need to complete these tables once and then update them as needed.
 - `Protocol steps` and `Protocol relationships` tables are used alongside **Protocols**.

1) How to use templates

	A	B
1	Frog	Chair
2	Frog	Table
3	Cat	Sofa
4	Dog	Sofa

- Other supporting tables include **Polygon**, which stores information about the sample shed, and **Dataset**, which stores information about the data custodian and owner of the data.

The templates contain four main types of fields; in these how-to guides they are colour-coded for instructional purposes:

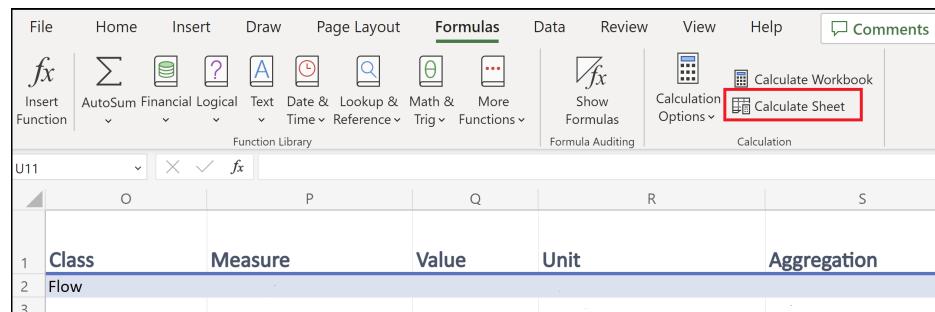
- **Identifier and unique identifier (red):** In these fields you will create a value that will be used to identify something. For instance, **Sample ID** is used to identify each unique sample. An identifier can be repeated between entries, while an unique identifier cannot. There is usually only one unique identifier per template, and they correspond to the name of the template. For example, **Measure ID** for the **Measure report** template, and **Contact ID** for the **Contact** template.
- **Drop-down and conditional drop-down menus (green):** These fields have a drop-down menu which contain the values that you can either select **or** type in. In conditional drop-down menus, the values depend on what you entered in a previous field.
- **Date fields (purple):** Dates are entered in these fields and must be in the form of the **ISO 8601** format: **yyyy-mm-dd**. All date fields also support entries for hours, minutes, and seconds: **2022-01-01T06:11:54** and **2022-01-01T06:11:54+13:30**
- **Free form fields (blue):** In these fields, you can enter your data in any format that you wish. Any restrictions will be specified in the relevant sections. Keep in mind, different measures may have

How to use the ODM

different data types that cannot be validated in Excel. The data type of a measure can be checked in the reference list for the measure. For example, the data type for Sample temperature is a real number.

Conditional menus

Conditional menus use the FILTER function (which is present in Excel 2019 and later) and are only functional in the first three rows of their respective templates. In addition, the auto-calculation has been disabled. Thus, you will need to press the “Calculate Sheet” button, which is in the “Formulas” tab after entering the value in the field upon which the conditional menu is based upon; this button is outlined in red in the image below (the image is for Excel Online). For example, for the **Measure** conditional menu in the **Measure report** template, you would select a value in the **Class** field, press “Calculate Sheet” and then the correct values will show up in the menu of the **Measure** field.



The screenshot shows the Microsoft Excel ribbon with the 'Formulas' tab selected. In the 'Calculate' section, the 'Calculate Workbook' and 'Calculate Sheet' buttons are visible, with 'Calculate Sheet' being highlighted by a red box. Below the ribbon, a table is displayed with columns: Class, Measure, Value, Unit, and Aggregation. The first row contains 'Class' and 'Measure' as headers. The second row contains 'Flow' under 'Class' and is currently selected. The third row is empty. The formula bar at the top shows 'U11' and an fx icon.

Class	Measure	Value	Unit	Aggregation
Flow				

All of this was done because, in an online environment (such as Excel Online), the code for the conditional menus work can cause the templates to run very slowly. You can reactivate the auto-calculation if you wish. For further information about how to expand these menus to additional rows and other aspects of the templates, see [Notes regarding templates](#).

2) How to report Measures and Measure sets

2) How to report Measures and Measure sets

In this guide you will learn how to record data in the **Measure report** (or **measures** Excel tab) and **Measure set report** (or **measureSets** tab) templates. In the **Measure report** template, each row represents a measure. Along the same lines, in the **Measure set report** template, each entry represents a collection or set of measures.

You can find additional information regarding terms and the colour-coding of columns at the beginning of this document ([How-To guides](#)) and the Reference Guide - [Parts document](#).

Quick Start

Below you will find the mandatory fields for the **Measure report** and **Measure set report** templates. You will also find definitions of these fields and examples of entries of data. A more detailed description of some of the key concepts can be found in the following section, Detailed description.

Measure report template

1. Mandatory fields

- **Report ID:** Unique identifier for the **Measure report** template. Each value represents a measure.
- **Sample ID:** Identifier for the sample that is associated with each measure.
- **Site ID:** Identifier for the location where a sample was taken.
- **Analysis Date End:** Date the measure was completed.

How to use the ODM

- **Measure:** A measurement or observation of any substance including a biological, physical or chemical substances.
- **Value:** Value of the measure.
- **Unit:** Units of a value.
- **Aggregation:** Statistical measure that the measure represents (for example “mean”).
- **Specimen:** Substance or thing upon which the observation was made. Specimens include **Population**, **Sample**, and **Site**. This field is only mandatory if there is more than one specimen type that is collected in the dataset.

2. Examples

Image will be added

Measure Sets Template

1. Mandatory fields

- **Report set ID:** Unique identifier for the **Measure set report** template. Each value represents a group of related measures.

3. Examples

Image will be added.

Detailed description

Detailed description

Measures template

1. Columns A to H

	A	B	C	D	E	F	G	H
1	Report ID	Protocol ID	Sample ID	Purpose	Polygon ID	Site ID	Dataset ID	Report Set ID
2								
3								

i) Columns A-C, and E-H

- These are identifier fields.
- Report ID (column A) is the unique identifier for this template, and it cannot be repeated. You can think of each Report ID as representing a unique measure. The field can be any combination of letters or words up to 30 characters.
- You can repeat the other fields between entries (if needed). For instance, if you enter two different measures from the same sample, then the Sample ID (column C) will be the same.
- You may have already created these identifiers in another template. For instance, you may have created Sample ID in the Sample report template.

ii) Column D

- Purpose has a drop-down menu. If you are unsure what to put, select Regular.

2. Columns I to M

How to use the ODM

	I	J	K	L	M
1	Analysis date start	Analysis date end	Report Date	Specimen	Fraction analyzed
2					
3					

i) Columns I to K

- These are date fields where you can enter the dates associated with your measure in the format yyyy-mm-dd. Including hours and minutes is optional, but all date-entries use the ISO 8601 format. 2022-01-01T06:11:54 or 2022-01-01T06:11:54+13:30

ii) Columns L and M

- **Specimen** and **Fraction analyzed** have drop-down menus. In general both fields are optional, but both are recommended (see next point for the exception).
- **Specimen** is mandatory when the data you are entering has more than one type of specimen. When there is only one specimen, the **Dataset** table records the specimen type. For example, if your **Measure report** table includes only wastewater sample measures, you can indicate this information in the **Dataset** table.
- **Fraction analyzed** applies only for water and wastewater samples. You should record the fraction for all samples if the compartment type is water or wastewater.

3. Columns N to S

	N	O	P	Q	R	S
1	Group	Class	Measure	Value	Unit	Aggregation
2						
3						

i) Columns N and O

Detailed description

- Group and Class help organize the Measure field by making specific measures easier to find (see the example in the next section). Both fields have a drop-down menu and are optional.
- Leave these fields **blank** if you do not use them.

ii) Column P

- Measure is where you select what is being measured. A measure in ODM is a “measurement or observation of any substance including a biological, physical or chemical substance”.
- Measure has a conditional drop-down menu. If you chose to enter in a Class (column O), the drop down menu will contain the Measures found in that Class. As mentioned, you can also enter a value into Group to help organize everything. If you did not enter a value in column O, the menu will contain all possible measures.
- For example, to find the allele measures for SARS-CoV-2 you can start by selecting SARS-CoV-2 in the Group column. Next, you select Alleles in the Class field. Then, in the drop-down menu of the Measure field, you will see all the possible measures that contain SARS-CoV-2 allele regions.

	N	O	P	Q
1	Group	Class	Measure	Value
2	SARS-CoV-2	Alleles	BRSV-N	
3			SARS-CoV-2-E	
4			SARS-CoV-2-N1	
5			SARS-CoV-2-N2	
6			SARS-CoV-2-N3	
7			SARS-CoV-2-RdRp	
8			crAssphage-N	
9			PMMoV-CP	
10				
11				

How to use the ODM

iii) Column Q

- **Value** is where you enter the value of your measure. For instance, if you recorded an **Environmental temperature** of 20 °C, you would enter “20”.
- Note: While the value you enter into this field can be of any data type, each measure is associated with a specific one. Data types for each measure can be found in the reference documentation. For example, the data type for **Environmental temperature** can be found [here](#).

iv) Column R

- **Unit** is where you enter the unit of your measure. This is a conditional drop-down menu field that lists all units that are valid for what was entered in the **Measure** field. For example, if selected **Environmental temperature** in the **Measure** field, the only unit displayed is **Celsius**.

v) Column S

- **Aggregations** is where you enter the aggregation of your value using a drop-down menu. For instance, does your value represent a mean, median, etc.
- What appears in this menu list depends on what you entered in the **Unit** field (column R).

4. Columns T to AB

	T	U	V	W	X	Y	Z	AA	AB
1	Nomenclature	Index	Measure license	Reportable	Organization ID	Contact ID	Reference link	Last edited	Notes
2									
3									

i) Columns U, V, Z and AB

- These are free-form fields.
- **Index** (column U) is used if you have multiple entries with the same values in most of the other fields; an example is when you make replicates of measures. If this is the case

Detailed description

you can enter “1”, “2”, etc. in this field to differentiate them.

- **Measure license** (column V) refers to the access and use licensing of the measure that you are entering.

ii) Column T and W

- These are fields which contain drop-down menus.
- **Reportable** (column W) is where you can indicate if the measure should not be used for regular reporting due to quality concerns. You can record more details of the quality concerns in the **Quality reports** template.

iii) Column X and Y

- These are identifier fields that are used to indicate the organization and contact person associated with the entry.

iv) Column AA

- **Last edited** is where you can indicate the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the entry was entered with no updates.

Measure set report template

1. Columns A to G

	A	B	C	D	E	F	G
1	Report set ID	Protocol ID	Name	Organization ID	Contact ID	Last edited	Notes
2							
3							

i) Columns A, B, D and E

- These are identifier fields.

How to use the ODM

- **Report Set ID** (column A) is the unique identifier for this template, and cannot be repeated between entries. In essence, each value of **Report set ID** represents a unique measure set. This field can be any combination of letters or words up to 30 characters.
- For the rest, you can repeat the identifier between entries (if needed). For instance, if you are entering two different measure sets that came from the same organization, then the **Organization ID** (column D) will be the same.
- You may have already created these identifiers in another template. For instance you may have created **Organization ID** in the **Organization** template.

Columns C and G

- These are free form fields in which you can enter the indicated information. **Name** (column C) refers to the name that you have given to the measure set.

ii) Column F

- **Last edited** is a date field in which you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the entry was entered with no updates.

You have now entered your data in the **Measure report** and **Measure set report** templates, congratulations!

3) How to report samples and sample relationships:

In this guide you will learn how to enter information about samples and sample relationships into their respective templates. In the **Sample**

Quick Start

`report` (or `samples` tab) template, each entry represents a sample. A sample is the wastewater that you collected so that measures can be made. Along the same lines, each entry in the `Sample relationships` (`orSampleRelationships`) template represents an interaction (or relationship) between two samples in the form “subject - relationship - object”. So, to specify that Sample A is a field sample replicate of Sample B, you would enter `Sample ID` of A - `Field sample replicate` - `Sample ID` of B.

You can find additional information regarding terms and the colour-coding of columns at the beginning of this document ([How-To guides](#)) and the Reference Guide - Parts document.

Quick Start

Below you will find the fields that are mandatory for the `Sample report` and `Sample relationships` templates. You will also find definitions of these fields and examples of entries of data. A more detailed description of some of the key concepts can be found in the following section, Detailed Description.

Samples Template

1. Mandatory fields

- `Sample ID`: Unique identifier for the `Sample report` template. Each value represents a sample.
- `Site ID`: Identifier for the location where a sample was taken.
- `Sample material`: Type of material that the sample is made of.
- `Sample collection type`: Method used to collect the sample.

How to use the ODM

- **Collection period:** The time period over which the sample was collected, in hours.
- **Collection number:** The number of subsamples that were combined to create the sample. Use NA for continuous, proportional or passive sampling.
- **Collection date time:** The date, time and time zone the sample was taken.

2. Examples

Image will be added

Sample Relationships Template

1. Mandatory fields

- **Sample ID object:** The object (or one of the samples) of a relationship between two samples. This will always be a **Sample ID** that was previously created in the **Sample report** template.
- **Relationship:** Describes the relationship between two samples.
- **Sample ID subject:** The subject (or one of the samples) of a relationship between two samples. This will always be a **Sample ID** that was previously created in the **Sample report** template.

2. Examples

Image will be added

Detailed Description

Detailed Description

Sample report template

1. Columns A to G

	A	B	C	D	E	F	G
1	Sample ID	Protocol ID	Organization ID	Contact ID	Site ID	Purpose	Sample material
2							
3							

i) Columns A to E:

- These are identifier fields.
- Sample ID (column A) is the unique identifier for this template and cannot be repeated between entries. You can think of each Sample ID value as representing a unique sample. This field can be any combination of letters or words up to 30 characters.
- For the rest of the fields, you can repeat values between entries. For instance, if you are entering two different samples from the same site, then the Site ID (column E) will be the same.
- You may have already created these identifiers in another template. For instance you may have created Site ID in the Sites template.

ii) Columns F to G:

- These are fields that contain drop-down menus where you can enter information regarding the Purpose (column F) and Sample material (column G) of your sample.

How to use the ODM

2. Columns H to O

H	I	J	K	L	M	N	O
Dataset ID	Sample origin	Replicate Type	Sample collection type	Collection period	Collection number	Collection number and period	Pooled
1							
2							
3							

i) Columns H:

- **Dataset ID** is an identifier field for the dataset that your sample is associated with.

ii) Columns I to K, O:

- These fields contain drop-down menus and are related to various characteristics of your sample.
- **Sample collection type** (column K) refers to the collection technique you used to obtain the sample.
- **Pooled** (column O) refers to whether or not the sample that you are entering is made up of multiple child samples.

iii) Columns L to N:

- These are free form fields.
- **Collection period** (column L) refers to the number of hours that you took to collect the sample.
- **Collection number** (column M) refers to the number of subsamples that were used to create Sample that you are entering.
- **Collection number and period** (column N) is a combination of the previous two fields.

3. Columns P to W

P	Q	R	S	T	U	V	W
Collection date time	Collection date time start	Collection date time end	Date sample was sent	Date sample received	Reportable	Last edited	Notes
1							
2							
3							

i) Columns P to T, V:

Detailed Description

- These are date fields that are related to your sample. These dates will be in the format yyyy-mm-dd. Including hours and minutes is optional, but all date-entries use the ISO 8601 format. 2022-01-01T06:11:54 or 2022-01-01T06:11:54+13:30.
- **Last edited** is where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the entry was entered with no updates.

ii) Column U and W:

- **Reportable** (column U) is a drop-down menu field where you can indicate if the sample should not be used for regular reporting due to quality concerns. You can record more details of the quality concerns in the **Quality reports** table.
- **Notes** (column W) is a free form field where you can indicate anything of interest.

Sample relationships template

1. Columns A to E

	A	B	C	D	E
1	Sample ID Subject	Relationship	Sample ID Object	Last Edited	Notes
2					
3					

i) Columns A and C:

- These are identifier fields.

How to use the ODM

- Both of these identifiers are **Sample ID** values and represent samples. You would have created them previously in the **Sample report** template. Neither of them are unique identifiers and, thus, can be repeated between entries.

ii) Columns B:

- **Relationship** is a drop-down menu field where you can select the type of relationship between two samples. For instance, if Sample B was a child of Sample A, you would put the **Sample ID** of Sample A in the **Sample ID subject** field (column A), and the **Sample ID** of Sample B in **Sample ID object** field (column C). Then you would chose **Child relationship** from the menu in this column.

iii) Columns D and E:

- These are a date field (column D) and a free form field (column E) where you can enter in the indicated information.
- **Last edited** (column D) is where you can enter in the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the entry was entered with no updates.

You have now entered your data in the **Sample report** and **Sample relationships** templates, congratulations!

4) How to record a protocol

In this guide you will learn how to enter protocols, protocol steps and protocol relationships into their respective templates. A protocol is “A procedure for collecting a sample or performing a measure”. Each entry in the **Protocols** (or **protocols**) template represents a unique protocol. A protocol is made up of protocol steps. In the **Protocol steps** (or

Quick Start

`protocolSteps`) template, each entry is one of these steps. Finally, protocols and protocol steps can be linked to each other. Each entry in the **Protocol relationships** (or `protocolRelationships`) template represents one of these relationships in the form, “subject - relationship - object”. So, for example, if you want to specify that Protocol step A needs to be done before Protocol step B, you would enter the **Protocol step ID** of A - Is Before - **Protocol Step ID** of B.

You can find additional information regarding terms and the colour-coding of columns at the beginning of this guide ([How-To guides](#)) and the Reference Guide - Parts document.

Quick Start

Below you will find the fields that are mandatory for the **Protocols**, **Protocol steps** and **Protocol relationships** templates. You will also find definitions of these fields and examples of entries of data. A more detailed description of some of the key concepts can be found in the following section, Detailed Description.

Protocol steps template

1. Mandatory fields

- **Protocol Step ID:** The unique identifier for the `protocol steps` template. Each value represents a protocol step.
- **Measure:** A measurement or observation of any substance including a biological, physical or chemical substance.
- **Method:** A procedure for collecting a sample or performing a measure.

How to use the ODM

- **Value:** Value of the entry. This is only mandatory if the entry is a measure.
- **Aggregation:** Statistical measures used to report a measure (for example, “mean”). This is only mandatory if the entry is a measure.
- **Unit:** The units of the value. This is only mandatory if the entry is a measure.

2. Examples

Image will be added

Protocols template

1. Mandatory fields

- **Protocol ID:** The unique identifier for the **Protocols** template. Each value represents a protocol.

2. Examples

Image will be added

Protocol relationships template

1. Mandatory fields

- **Protocol ID container:** The unique identifier for the **Protocol relationships** template. Each value represents a protocol, and the step(s) and other protocol(s) that make it up. This identifier should also be a **Protocol ID** that was created using the **Protocols** template.
- **Relationship:** Describes the relationship between the subject and object.

Detailed Description

- **Protocol ID subject:** Identifier of the subject of a relationship between a protocol, and a protocol step or protocol. This is only mandatory if the subject is a protocol.
- **Protocol step ID subject:** Identifier of the subject of a relationship between a protocol step, and a protocol step or protocol. This is only mandatory if the subject is a protocol step.
- **Protocol ID object:** Identifier of the object of a relationship between a protocol, and a protocol step or protocol. This is only mandatory if the object is a protocol.
- **Protocol ID step object:** Identifier of the object of a relationship between a protocol step, and a protocol step or protocol. This is only mandatory if the object is a protocol step.

2. Examples

Image will be added

Detailed Description

Protocol steps template

1. Columns A to G

	A	B	C	D	E	F	G
1	Protocol Step ID	Method	Measure	Summary	Protocol step source ID	Protocol Step Version	Reference link
2							
3							

i) Column A and E:

- These are identifier fields.

How to use the ODM

- **Protocol step ID** (column A) is the unique identifier field for this template and cannot be repeated between entries. You can think of each **Protocol Step ID** value as representing a unique protocol step. This field can be any combination of letters or words up to 30 characters.
- **Protocol step source** (column E) specifies the protocol step that you used as a basis for the given protocol step (it will be a previous **Protocol step ID**).

ii) Columns B to C:

- These are fields with drop-down menus.
- You only need to enter a value into **Method** (column B) or **Measure** (column C). The former is for when you are entering a method as a protocol step. The latter is when you are entering a measure as a protocol step. Leave the other field **blank**.

iii) Columns D, F and G:

- These are free form fields.
- **Summary** (column D) is a short description of the protocol step that you are entering.
- **Protocol step version** (column F) specifies the version of a given protocol step.

2. Columns H to O

	H	I	J	K	L	M	N	O
1	Organization ID	Contact ID	Instrument ID	Value	Unit	Aggregation	Last Edited	Notes
2								
3								

i) Columns H to J:

- These are identifier fields.
- You can repeat values between entries. For instance, if you are entering two different protocol steps from the same

Detailed Description

organization, then the **Organization ID** field (column H) will be the same.

ii) Column K:

- **Value** is a free form field where, if the protocol step is a measure, you can enter its value.

iii) Columns L and M:

- These fields contain conditional drop-down menu fields.
- **Unit** (column L) depends on what you entered in **Measure** (column C). This field is only applicable if the protocol step is a measure.
- **Aggregation** (column M) depends on what you entered in **Unit** (column L). This field is only applicable if the protocol step is a measure.

iv) Columns N and O:

- These are a date field (column N) and a free form field (column O) where you can enter in the indicated information.
- **Last edited** (column N) is where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.
This date will be in the format yyyy-mm-dd. Including hours and minutes is optional, but all date-entries use the ISO 8601 format. 2022-01-01T06:11:54 or 2022-01-01T06:11:54+13:30.

Protocols template

1. Columns A to F

How to use the ODM

	A	B	C	D	E	F
1	Protocol ID	Protocol ID	Dataset ID	Name	Summary	Reference link
2						
3						

i) Columns A to C:

- These are identifier fields.
- **Protocol ID** (column B) is the unique identifier for this template, and cannot be repeated between entries. In essence, each value of **Protocol ID** represents a unique protocol. This field can be any combination of letters or words up to 30 characters.
- For **Dataset ID**(column C), you can repeat between entries (if needed). For instance, if you are entering two different protocols from the same dataset, then the **Dataset ID** will be the same.
- You may have already created the **Dataset ID** values in the **Dataset** template.
- **Source Protocol ID** (column A) is where you can enter the **Protocol ID** of the protocol that served as the basis for the protocol that is currently being entered.

ii) Columns D to F:

- These are free form fields in which you can enter the indicated information.
- **Name** (column D) refers to the name that you have decided to give your protocol.

2. Columns G to K

G	H	I	J	K
Organization ID	Contact ID	Protocol Version	Last Edited	Notes

Detailed Description

i) Columns G, H:

- These are identifier fields. You can repeat values between entries.

ii) Columns I, K:

- These are free form fields.
- **Protocol version** (column I) is where you can indicate the version of the protocol that you are entering.

iii) Columns J:

- **Last edited** is a date field where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

Protocol relationships template

1. Columns A to H

	A	B	C	D	E	F	G	H
1	Protocol ID Container	Protocol ID Object	Step ID Object	Relationship	Protocol ID Subject	Step ID Subject	Last Edited	Notes
2								
3								

i) Columns A to C, E and F:

- These are identifier fields.
- All of these identifiers are either **Protocol ID** values or **Protocol Step ID** values, and represent protocols and protocol steps, respectively. This includes **Protocol ID Container** (column A), which is a **Protocol ID** that contains the relationships that you are entering in this template. Note that none of these fields are unique identifiers and, thus, they can be repeated between entries.

How to use the ODM

- You should only enter a value for one of the two **object** columns (column B and C); this depends on whether the object of the relationship that you are entering is a protocol or a protocol step. The same is true for the two **subject** columns (column E and F).
- An example will be given in point (ii) below.

ii) Columns D:

- **Relationship** contains a drop-down menu; it is where you can select the type of relationship that is being entered.
- For example, pretend you wanted to enter a relationship stating that Protocol step A takes place before Protocol step B in a particular protocol container. You would enter the relevant identifiers in the **Step ID Object** field (column B) and the **Step ID subject** field (column F). You would then select **Is Before** from the **Relationship** field. Finally, to identify this relationship, you would enter in the identifier in the **Protocol ID Container** field (column A)

iii) Columns G and H:

- These are a date field (column G) and a free form field (column H) where you can enter in the indicated information.
- **Last edited** (column G) is where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

You have now entered your data in the **Protocol steps**, **Protocols** and **Protocol relationships** templates, congratulations!

5) How to report metadata

5) How to report metadata

In this guide you will learn how to enter in the metadata of your wastewater data through a series of templates. Each entry in a template will usually represent what is found in the title of the template. For instance, in the **Organizations** template each row will represent an organization. In the context of the PHES-ODM, metadata is anything that gives general information about the data that you are entering and is not found in the templates related to measures, protocols and samples.

You can find additional information regarding terms and the colour-coding of columns at the beginning of this guide ([How-To guides](#)) and the Reference Guide - Parts document.

Quick Start

Below you will find the fields that are mandatory for the metadata-related templates. You will also find definitions of these fields and examples of entries of data. A more detailed description of some of the key concepts can be found in the following section, Detailed Description.

Address (or addresses) template

1. Mandatory fields

- **Address ID:** The unique identifier for the **Address** template. Each value represents an address.
- **Dataset ID:** The identifier of the dataset that stores information for measures, samples and other reporting tables.
- **Address line 1:** Line 1 (the street name, number and direction) for a given address of a site or organization.

How to use the ODM

- **City:** The city where a site or organization is located; part of the address.
- **State, province or region:** The state, province, or region where a site or organization is located; part of the address.
- **Country:** The country where a site or organization is located; part of the address.

2. Examples

Images will be added

Contact (or contacts) template

1. Mandatory fields

- **Contact ID:** The unique identifier for the **Contact** template. Each value represents a contact person.
- **Organization ID:** An identifier for the organization to which the contact person is affiliated.
- **Email:** Contact e-mail address.

2. Examples

Images will be added

Dataset (or datasets) template

1. Mandatory fields

- **Dataset ID:** A unique identifier for the **Dataset** template. Each value represents a dataset.

- **License:** The license of the dataset.
- **Data custodian:** The data custodian of the database. This is represented by an **Organization ID** and would have been created in the **Organization** template.

2. Examples

Images will be added

Instrument (or instruments) Template

1. Mandatory fields

- **Instrument ID:** The unique identifier for the **Instrument** template. Each value represents an instrument.
- **Dataset ID:** The identifier of the dataset that stores information for measures, samples and other reporting tables.
- **Model:** Model number or version of the instrument.
- **Instrument type:** The type of instrument used to perform the measurement.

2. Examples

Images will be added

Organization (or organizations) template

1. Mandatory fields

- **Organization ID:** The unique identifier for the **Organization** template. Each value represents an organization to which the reporter is affiliated.

How to use the ODM

- **Address ID:** An identifier for the address of the organization.

2. Examples

Images will be added

Polygon (or polygons) template

1. Mandatory fields

- **Polygon ID:** The unique identifier for the Polygon template. Each value represents a polygon.
- **Type of geography:** Type of geography that is represented by the polygon.
- **Well-known text:** Well-known text of the polygon.
- **European Petroleum Survey Group Coordinates:** A code that specifies a given geospatial area.

2. Examples

Images will be added

Quality reports (or qualityReports) template

1. Mandatory fields

- **Quality report ID:** The unique identifier for the Quality reports template. Each value represents a quality issue that you wish to report.
- **Report ID:** An identifier for a measure. This is only mandatory if the entry is about a measure.
- **Sample ID:** An identifier for a sample. This is only mandatory if the entry is about a sample.

Quick Start

- **Report set ID:** An identifier that links together a group of related measures. This is only mandatory if the entry is related to a measure set.
- **Quality flag:** A field for reporting any quality concerns for a sample or measure.

2. Examples

Images will be added

Sites (or sites) template

1. Mandatory fields

- **Site ID:** The unique identifier for the **Sites** template. Each value represents the site where a wastewater sample was taken.
- **Site type:** Type of site where a sample was taken.
- **Sample shed:** A geographic area, physical space, or structure. A sample is taken from a sample shed for a representative measurement of a substance.
- **Contact ID:** An identifier for a given contact person.
- **Latitude:** Latitude in decimal coordinates of the site.
- **Longitude:** Longitude in decimal coordinates of the site.
- **European Petroleum Survey Group Coordinates:** A code that specifies a given geospatial area.

2. Examples

Images will be added

Detailed Description

Address template

1. Columns A to E

	A	B	C	D	E
1	Address ID	Dataset ID	Address Line 1	Address Line 2	City
2					
3					

i) Columns A and B:

- These are identifier fields.
- **Address ID** (column A) is the unique identifier for this template, and cannot be repeated between entries. You can think of each **Address ID** value as representing a unique address. This field can be any combination of letters or words up to 30 characters.
- For **Dataset ID** (column B), you can repeat the value between entries (if needed). For instance, if you are entering two different addresses from the same dataset, then this column will be the same.
- You may have already created the **Dataset ID** in the **Dataset** template.

ii) Columns C to E:

- These are free form fields in which you can enter various information about the address.

2. Columns F to J

Detailed Description

	F	G	H	I	J
1	State, Province, or Region	Postal or Zip Code	Country	Last Edited	Notes
2					
3					

i) Columns F to J:

- Most of these are free form fields where you can enter the indicated information about the address.
- **Last edited** (column I) is a date field where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

This date will be in the format yyyy-mm-dd. Including hours and minutes is optional, but all date-entries use the ISO 8601 format. 2022-01-01T06:11:54 or 2022-01-01T06:11:54+13:30.

Contact template

1. Columns A to E

	A	B	C	D	E
1	Contact ID	Dataset ID	Organization ID	First name of contact	Last Name of Contact
2					
3					

i) Columns A to C:

- These are identifier fields.

How to use the ODM

- **Contact ID** (column A) is the unique identifier for this template, and cannot be repeated between entries. You can think of each **Contact ID** value as representing a unique contact person. This field can be any combination of letters or words up to 30 characters.
- For the rest of the fields, you can repeat the values between entries (if needed). For instance, if you are entering two different contacts that came from the same organization, then the **Organization ID** (column C) will be the same.
- You may have already created these Identifiers in another template. For instance you may have created **Organization ID** in the **Organization** template.

ii) Columns D and E:

- These are free form fields in which you can enter the name of the contact.

2. Columns F to J

	F	G	H	I	J
1	Contact email	Contact phone	Role of Contact	Last Edited	Notes
2					
3					

i) Columns F to J:

- Most of these fields are free form in which you can enter various information regarding the contact.
- **Last Edited** (column I) is a date field where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

Detailed Description

Dataset template

1. Columns A to G

	A	B	C	D	E	F	G
1	Parent	Dataset				Reference	
2	Dataset ID	Dataset ID	Creation Date	Name	License	Description	link
3							

i) Columns A and B:

- These are identifier fields.
- **Dataset ID** (column B) is the unique identifier for this template, and cannot be repeated between entries. You can think of each value of **Dataset ID** as representing a unique dataset. This field can be any combination of letters or words up to 30 characters.
- For **Parent dataset ID** (column A), you can repeat the value between entries (if needed). For instance, if you are entering two different datasets that came from the same parent dataset, then the **Parent dataset ID** will be the same.

ii) Column C

- **Dataset creation date** is a date field where you can enter the date that the dataset was created.

iii) Columns D to G:

- These are free form fields in which you can enter various information related to the dataset.

2. Columns H to N

How to use the ODM

	H	I	J	K	L	M	N
1	Funder	Custody	Funding	Data			
2	Language ID	Contact ID	Contact ID	agency ID	custodian ID	Last edited	Notes
3							

i) Columns H to L:

- These are identifier fields.
- For information regarding funders, you can enter their **Funder Contact ID** (which is a **Contact ID** created in the **Contact template**) and **Funding Agency** (which is a **Organization ID** created in the **Organization template**) in columns I and K.
- For information regarding Data Custodians, you can enter their **Custody Contact ID** (which is a **Contact ID** created in the **Contact template**) and **Data Custodian ID** (which is a **Organization ID** created in the **Organization template**) in columns J and L.

ii) Columns M and N:

- These are a date field (column M) and a free form field (column N) where you can enter in the indicated information.
- **Last edited** (column M) is the date when the entry was updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

Instrument template

1. Columns A to G

Detailed Description

	A	B	C	D	E	F	G
1	Instrument ID	Dataset ID	Name	Model	Manufacturer	Contact ID	Organization ID
2							
3							

i) Columns A, B, F and G:

- These are identifier fields.
- **Instrument ID** (column A) is the unique identifier for this template, and cannot be repeated between entries. In essence, you can think of each **Instrument ID** value as representing a unique instrument. This field can be any combination of letters or words up to 30 characters.
- For the rest of the columns, you can repeat the value between entries (if needed). For instance, if you are entering two different instruments from the same dataset, then **Dataset ID** column will be the same.
- You may have already created some of the identifiers in other templates. For instance, you may have already created **Dataset ID** in the **Datasets** template.

ii) Columns C to E

- These are free form fields where you can enter the **Name** (column C), **Model** (column D) and **Manufacturer** (column E) of the instrument.

2. Columns H to N

H	I	J	K	L	M	N
Description	Reference link	Instrument Type	Describe other instrument type, if applicable	Index	Last Edited	Notes
1						
2						
3						

i) Columns H, I, L to N:

- Most of these fields are free form in which you can enter relevant information regarding your instrument

How to use the ODM

- You can use **Index** (column L) to differentiate two entries of data that are the same in the other fields.
- **Last Edited** (column M) is a date field where you can indicate the date when the entry was updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

ii) Columns J and K:

- For **Instrument type** (column J), you can select from the drop-down menu the type of instrument. If you do not see your instrument, you can enter **Other instrument**.
- If you entered **Other instrument** in the **Instrument type** field, you can use the **Describe other instrument type, if applicable** field (column K) to describe your instrument.

Organization template

1. Columns A to E

	A	B	C	D	E
1	Organization ID	Name	Description	Dataset ID	Address ID
2					
3					

i) Columns A, D and E:

- These are identifier fields.
- **Organization ID** (column A) is the unique identifier for this template, and cannot be repeated between entries. You can think of each value of **Orgnization ID** as representing a unique organization. This field can be any combination of letters or words up to 30 characters.

Detailed Description

- For the rest of the columns, you can repeat the value between entries (if needed). For instance, if you are entering two different organizations with the same address, then the **Address ID** will be the same.
- You may have already created some of the identifiers in other templates. For instance, you may have already created the **Address ID** in the **Address** template.

ii) Columns B and C:

- These columns are free form fields in which you can enter additional information regarding the organization.

2. Columns F to J

F	G	H	I	J
Organization type	Organization level	Organization sector	Last edited	Notes

i) Columns F to H:

- These are fields with drop-down menus where you can select various characteristics of the organization that you are entering.

ii) Columns I and J:

- These are a date field (column I) and a free form field (column J) where you can enter in the indicated information.
- **Last edited** (column I) is the date when the entry was updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

Polygon template

1. Columns A to G

How to use the ODM

	A	B	C	D	E	F	G
1	Polygon ID	Dataset ID	Name	Description	Polygon Population	Type of geography	European Petroleum Survey Group Coordinates
2							
3							

i) Columns A and B:

- These are identifier fields.
- **Polygon ID** (column A) is the unique identifier for this template, and cannot be repeated between entries. A polygon is something that describes the geometry of a geographic area. You can think of each value of **Polygon ID** as representing a unique polygon. This field can be any combination of letters or words up to 30 characters.
- For **Dataset ID** (column B), you can repeat the value between entries (if needed). For instance, if you are entering two different polygons from the same dataset, then this column will have the same value.
- You may have already created the **Dataset ID** in the **Dataset** template.

ii) Columns C to E, G:

- These are free form fields in which you can enter additional information regarding the Polygon.
- **Name** (column C) is the name of the polygon.
- **European Petroleum Survey Group Coordinates** (column G) is a coordinate system that can be used to identify where a polygon is.

iii) Columns F:

- For **Type of geography** (column F) of the polygon, you can select one of the values from the drop-down menu.

2. Columns H to N

Detailed Description

	H	I	J	K	L	M	N
1	Well-known text of Polygon	File Location	Reference link	Organization ID	Contact ID	Last Edited	Notes
2							
3							

i) Columns H to J, M and N:

- These are free form fields and a date field in which you can enter relevant information regarding the polygon.
- **Well-known text** (column H) refers to the text markup language that can be used to represent the polygon.
- **Last edited** (column M) is a date field where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

ii) Columns K and L:

- These are identifier fields in which the **Organization ID** and the **Contact ID** associated with the polygon are entered.

Quality reports template

1. Columns A to H

	A	B	C	D	E	F	G	H
1	Quality Report ID	Report ID	Sample ID	Report Set ID	Quality Flag	Severity indicator	Last Edited	Notes
2								
3								

i) Columns A to D:

- These are identifier fields.
- **Quality report ID** (column A) is the unique identifier for this template, and cannot be repeated between entries. You

How to use the ODM

can think of each value of **Quality Report ID** as representing a unique quality issue that you want to report. This field can be any combination of letters or words up to 30 characters.

- For the rest of the columns, you can repeat the value between entries (if needed). For instance, if you are entering two different quality reports for the same sample, then the **Sample ID** column will be the same.
- You may have already created some of the identifiers in other templates. For instance, you may have already created the **Sample ID** in the **Sample report** template.

ii) Columns E and F:

- **Quality flag** (column E) is a drop-down menu field where you can select the type of quality issue that you would like to enter.
- **Severity indicator** (column F) is also a drop-down menu field where you can indicate the severity of the quality flag.

iii) Columns G and H:

- These are a free form field and a date field in which you can enter the indicated information.
- **Last edited** (column M) is a date field where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

Sites template

1. **Columns A to F**

Detailed Description

	A	B	C	D	E	F
1	Parent Site ID	Site ID	Dataset ID	Polygon ID	Site Type	Sample shed
2						
3						

i) Columns A to D:

- These are identifier fields.
- **Site ID** (column B) is the unique identifier for this template, and cannot be repeated between entries. You can think of each value of **Site ID** as representing a unique site. This field can be any combination of letters or words up to 30 characters.
- For the rest of the columns, you can repeat the value between entries (if needed). For instance, if you are entering two different sites that are found in the same polygon, then the **Polygon ID** values will be the same.
- **Parent site ID** (column A) refers to the site that is parent to the site that is being entered. For example if the site that is being entered is a room in a facility, then the **Parent site ID** would refer to the facility.

ii) Columns E and F:

- These are drop-down menu fields in which you can specify the **Site Type** (column E) and the type of **Sample shed** (column F).

2. Columns G to M

	G	H	I	J	K	L	M
1	Address ID	Organization ID	Contact ID	Name	Description	Primary reporting authority ID	Secondary reporting authority ID
2							
3							

i) Columns G to I, L and M:

How to use the ODM

- These are identifier fields that you can use to record additional information about the site. Primary reporting authority ID (column L) and Secondary reporting authority ID (column M) are Organization IDs that you would have created using the Organization template.
- ii) Columns J and K:
- These are all free form fields in which you can enter in relevant information about the site.

3. Columns N to S

	N	O	P	Q	R	S
1	Population Served	Latitude	Longitude	European Petroleum Survey Group Coordinates	Last Edited	Notes
2						
3						

i) Columns N to S:

- These are free form fields and a date field where you can enter in additional information about the Site.
- European Petroleum Survey Group Coordinates (column Q) is a coordinate system that can be used to identify where your site is.
- Last Edited (column S) is a date field where you can enter the date when the entry was last updated. This field is used when you modify an entry after your initial recording. Leave this field blank if the measure was entered with no updates.

You have now entered in your metadata, congratulations!

Notes regarding templates

Templates with conditional menus (Measure report and Protocol steps)

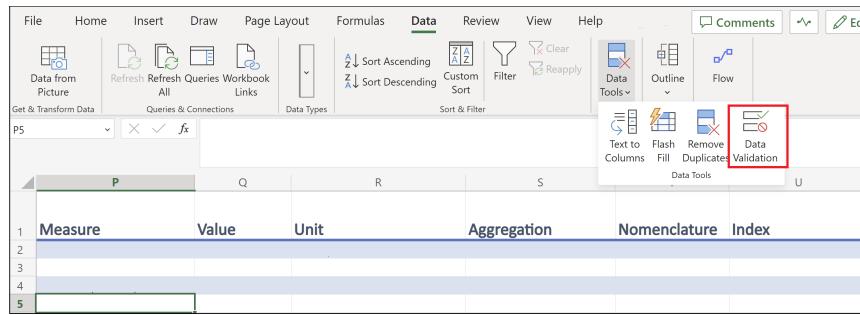
Adding more conditional menus

- The code to determine the entries for the conditional menus are found to the right of the main template. Unlike the main template, the rows containing the code will not be alternating in colour.
- The code is only present for the first three rows. If you want to use conditional menus for additional rows, you will need to copy the code to these rows as well as create the menus in the desired cells. As an example, pretend that you wanted to add a **Measure** field conditional menu to row 5 in the **Measure report** template. The first thing you would do is copy the code from AF4 to AF5 (see below, all images in this example are from Excel Online).

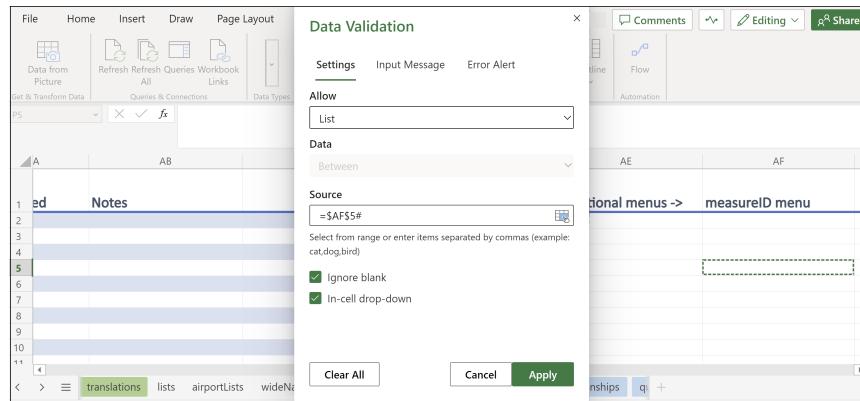
AE	AF	AG	IF	IG	KF	KG	MF	MG
1 Conditional menus ->	measureID menu		unitID menu		aggregationID menu			
2								
3								
4								
5								

- Then, to create the new menu, you would go to P5 (which is where the new conditional menu will be located). You would select “Data validation”, which is under “Data Tools” in the “Data” tab (it is outlined in red in the image below).

How to use the ODM



- Finally, you would select “List” from the “Allow” menu and then enter the following text “=AF\$5#” under “Source”. The column and row indicators (“AF” and “5”, in this example) match up with where you copied the new code (“AF5”).



For additional menus, repeat the above steps. Adding conditional menus in an online environment (such as Excel Online) may slow down the templates considerably.

Troubleshooting conditional menus

- The conditional menus work by searching the `partLabels` column in the `parts` table that is included with the templates.
- If you obtained an error with these menus check if any changes were made to the `parts` table.

Templates with menus (all templates other than the Measure sets, Protocols, Contact, Address and Dataset templates)

Part IDs

- In the main parts of each of the templates, labels are used in the menus.
- If you wish to have the part IDs of these values, they are located to the right of the main template and, if applicable, the code for the conditional menus. Unlike the main template, the rows containing the part IDs will not be alternating in colour.
- The part IDs are present in the first 100 rows of each of the templates.

Troubleshooting menus (not including conditional menus)

- The menus are based on what is found in the `lists` tab that is included with the templates.
- If you obtained an error with these menus check if any changes were made to the `lists` tab.

Sample Relationships

Dictionary v2.2.3 Documentation v2.1.0

Context

To fully interpret the measures coming out of samples, it is sometimes helpful to know how they are related to each other. For example, two samples taken at the same site, at the same time, with the same method, can be used to characterize the variability inherent in the sampling strategy. When samples are composited from several subsamples, it is useful to know which subsamples were used and to what pooled samples they are related. Parts of samples can also be spiked with a viral target as part of a quality assurance protocol. Keeping a trace of the relationships linking various samples supports the retrieval of related samples inside the PHES-ODM database and thus improves the interpretability of the data.

Modelling sample relationships

There are several ways in which samples can be related.

Samples can be related via:

1. The splitting of an original sample
 1. A subsample is related to its parent sample

Sample Relationships

2. A sample split at the sampling location yields field replicates who are related to each other.
 3. A field sample is related to a control sample processed alongside it.
 4. A field sample is related to a subsample that has been modified as part of a quality control procedure.
2. The combination of several samples
 1. Parent samples related to the final pooled sample

Example of sample relationship webs are found in Figure A.

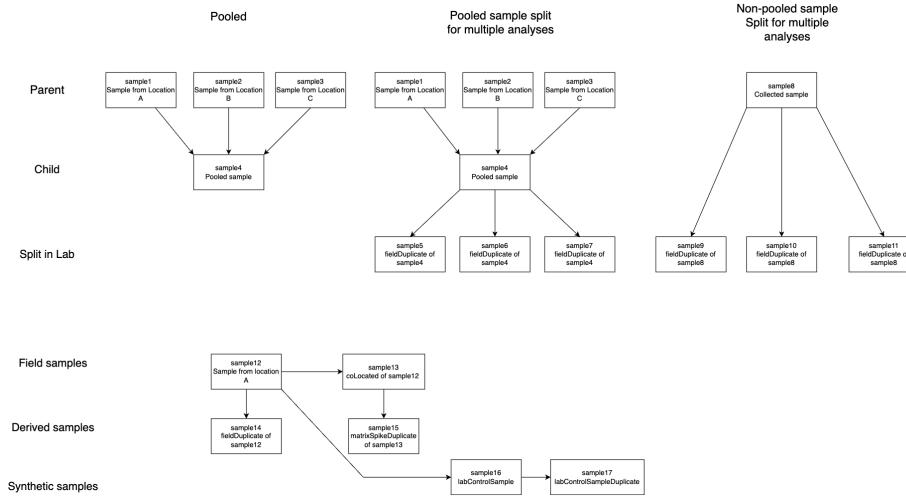


Figure 4.: Figure A: Various possible sample relationships.

Figure A: Various possible sample relationships.

Because a single sample can be related to many others, the sample information and the relationships to other samples can't be efficiently stored in a single database table.

Implementation

The **SampleRelationships** table is responsible for linking samples with each other and for defining the nature of the relationships. Each row defines a relationship. A sample can have any number of relationships to other samples. The table implements three attributes:

1. sampleIDSubject
2. relationshipID
3. sampleIDObject

Each row can be read as a sentence of the form:

```
[sampleIDSubject] is a[relationshipID] of [sampleIDObject]
```

The acceptable values for relationshipID are the following at the moment, though some more could be added to the dictionary of the need arises:

- child
- replicate

To complete the picture presented by the **SampleRelationships** table, one can read the sample attributes that describe the sample's nature:

1. **repType** (replicate type) indicates what kind of replicate a sample is (field replicate, matrix spike replicate, lab control replicate)
2. **pooled** indicates if the sample is the result of the combination of several samples. It is important to note that **pooled** is a transitive property: subsamples derived from a **pooled** sample are also **pooled**.

Below are two examples of possible relationship webs between samples and the resulting entries in a **SampleRelationships** table.

Sample Relationships

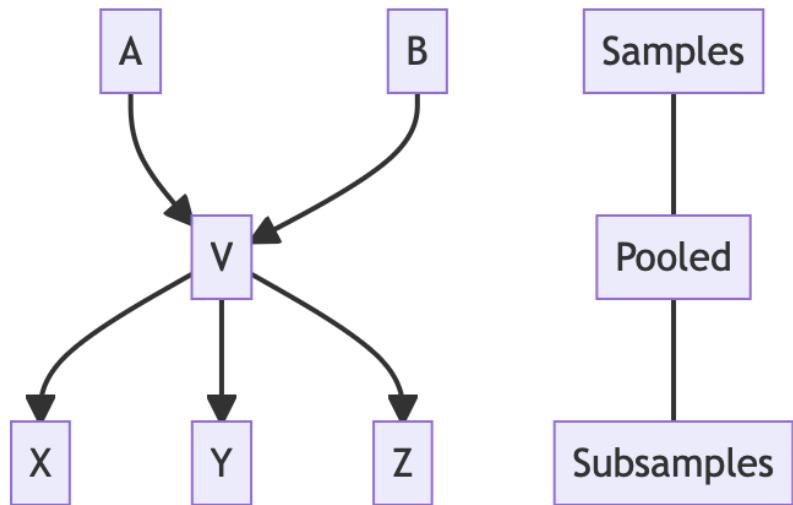


Figure 5.: Example A

sampleIsSubject	relationshipID	sampleIsObject
V	child	A
V	child	B
X	child	V
Y	child	V
Z	child	V

Implementation

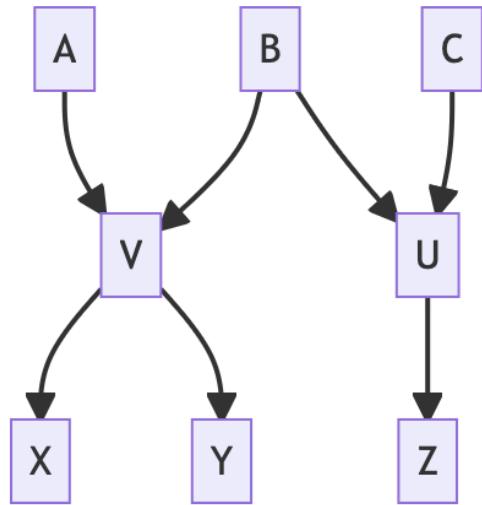


Figure 6.: Example B

sampleIsSubject	relationshipID	sampleIsObject
V	child	A
V	child	B
U	child	B
U	child	C
X	child	V
Y	child	V
Z	child	U

Long-format, wide-format, and wide-names

Dictionary v2.2.3 Documentation v2.1.0

Wide-format and long-format data

Wide- and long-formats are two broad categories for describing how to store or record data. For our purposes, long-format describes a situation with one row for each observation, measure, or data point. Wide-format describes a situation where all observations, measures, or data points of one day are recorded in one row.

For example, below is a long-format table for recording wastewater surveillance data:

date	measure	value	unit
dec 17	covid N1	32.1	gc/mL
dec 17	PMMoV	16.2	gc/mL
dec 17	pH	8.2	unitless
dec 20	covid N1	34.6	gc/mL
dec 20	PMMoV	19.6	gc/mL
dec 20	pH	7.9	unitless

The same table but in a wide-format is shown here:

Long-format, wide-format, and wide-names

date	covid N1 (gc/mL)	PMMoV (gc/mL)	pH
dec 17	32.1	16.2	8.2
dec 20	34.6	19.6	7.9

With each additional field for recording data points, the wide-format table becomes wider, and the long-format table become longer.

Issues with moving between formats

Data visualizations and analysis workflows commonly use wide-data, and it can be faster to input data in wide-format because there is less repetition. This is because date, sample ID, and other fields are not reentered across rows. Long-format is preferred for storage and aggregation.

The diversity in how wide-data is recorded can impact transparency and interoperability. Particularly, this creates problems when merging data from multiple sources. When data is merged between labs, wide-format tables can have hundreds of columns and missing data in many fields. When transforming data from one format to another, there may be differences in naming conventions. This can lead to mistakes in how the data is mapped, and create errors in the database where information is being stored.

PHES-ODM approach to wide- and long-formats

The PHES-ODM is designed as a series of long-format tables, but aims to provide robust infrastructure to support wide-formats. This support includes managing mapping between long- and wide-formats. To streamline mapping between formats, we have created a standardized approach to generating wide-format column names (or wide-names).

PHES-ODM approach to wide- and long-formats

Long-format

compartment	specimen	fraction analysed	measure	unit	aggregation	index	value
water	sample	liquid	SARS-CoV-2-N1	gene copies per L	arithmetic mean	1	40

Wide-format

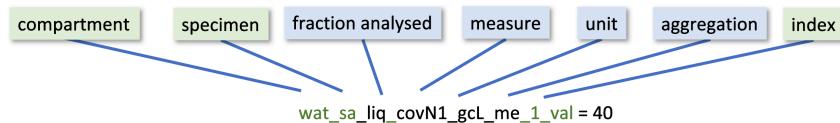


Figure 7.: **Figure 1 - Wide- and Long-names**

For long-formatted data in the ODM, names are all made using camel case (ex: `exampleName`). Each long format name is a ‘part’, which are the building blocks of the data model. All wide-format names are snake case (ex: `example_name`). Each section of the snake case wide name is an individual part that is combined to form the fully-specified wide-name. Using this approach, wide-names can be parsed automatically to move and transform data between formats without introducing errors.

Wide-names

The exact formula used to generate a wide-name in the ODM depends on the kind of data point you are recording. The three kinds of data and metadata for these column names are either attributes, measures, or protocol steps. An attribute column is metadata. These columns provide context about a measure, protocol, or sample. Measure columns report a specific measure, either from a site, sample, or population. Lastly, protocol columns report a specific protocol step or detail for a measure.

Attributes

The wide-name formula for attributes is

`tableShortName_attribute`

Wide-names

Long-format:

Samples Table

sampleID	saMaterial	sitID	...
sas100x245	rawWW	ropec	...

Contacts Table

contactID	lastName	email	...
ottawaPer	Doe	Doe@madeUp.ca	...

Wide-format

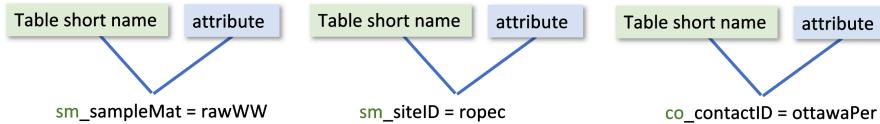


Figure 8.: **Figure 2 - Wide- to Long-format for Attributes**

For example, to record the sample material in long-format you would navigate to the `samples` table and populate the `saMaterial` column. In wide-format, all data are recorded in a single table. The table and attribute are combined for the wide-name, creating the name

`sm_saMaterial`

for this attribute. Here `sm` is the short name for the samples table, and `saMaterial` is the column name for the sample matrix or material.

Measures

The wide-name formula for a measure or measure-value is

`compartment_specimen_fraction_measure_unit_aggregation_index_attribute`

Measures

where the `attribute` at the end is always either `value`, `purpose`, or `qualityFlag`.

Long-format

compartment	specimen	fraction analysed	measure	unit	aggregation	index	value
water	sample	liquid	SARS-CoV-2-N1	gene copies per L	arithmetic mean	1	40

Wide-format

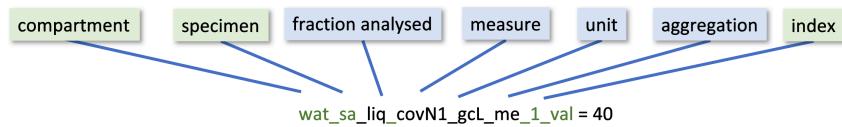


Figure 9.: **Figure 3 - Wide- to Long-format for Measures**

The ODM long-format specifies a `measure` column in the `measures` table, as well as a column for `units` and one for `aggregations`. The wide-format collapses all these columns into a single `value` column.

For example, the wide-name for mean chemical oxygen demand from a wastewater sampling site, recorded in milligrams per litre is

`wat_si_NR_cod_mgL_m_NR_value`

Here the measure is taken from wastewater/water (`wat`), it's a measure of the site (`si`), the fraction analyzed is not reported (`NR`), it is a measure of chemical oxygen demand (`cod`), the units are mg/L (`mgL`), it's a mean measure (`m`), the index is not reported (`NR`), and lastly this is the value for this measure (`value`).

Wide-names

Protocol steps

Like measures, protocol step wide-names record the `value` field. With protocols, the wide-name formula depends on whether the step uses a `measure` or a `method`. The formula if using a `method` is:

```
tableShortName_partTypeShortName_method_attribute
```

The formula if using a `measure` is:

```
tableShortName_partTypeShortName_measure_unit_aggregation_index_attribute
```

where in both instances, the table short name always specifies the `protocolSteps` table (`ps`), and the `partType` short name specifies whether this is a measure (`mes`) or a method (`met`). The attribute is always `value`.

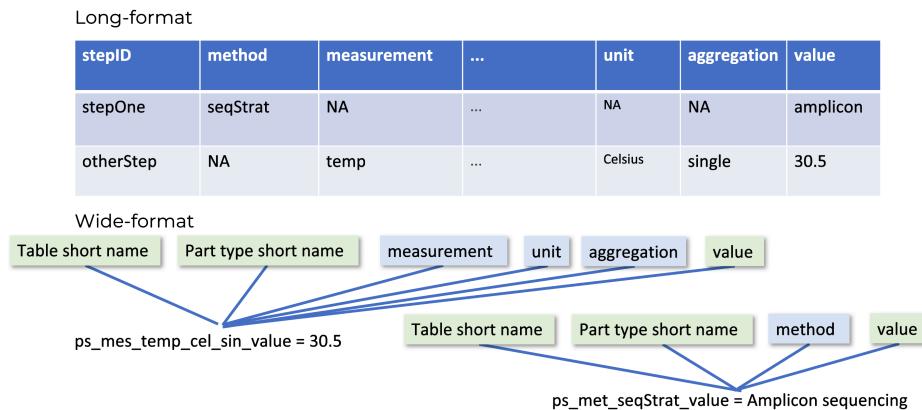


Figure 10.: **Figure 4 - Wide- to Long-format for protocol**

For example, the wide-name for the sequencing strategy protocol step (ie. a protocol step using a method) for a wastewater program would be

For combined long- and wide-formats

`ps_met_seqStrat_value`

The protocol steps table short name indicates the long-format table (`ps`), the protocol step uses a method part type (`met`), it reports the sequencing strategy (`seqStrat`), and the column records the value (`value`).

There are various pros and cons to each format, but generally it is ideal for data to be stored and analyzed in a long-format table, while it can be easier to record the data in a wide-format table. Differences in how naming conventions work across formats can lead to mistakes in how the data is mapped, stored and used.

Similarly, the wide-name for a storage temperature (i.e. a protocol step using a measure), would be

`ps_mes_temp_cel_sin_NR_value`

The protocol steps table short name indicates the long-format table (`ps`), the protocol step uses a measure part type (`mes`), it reports the temperature (`temp`) in degrees Celsius (`cel`), it is a single measure (`sin`, i.e. not aggregated), the index is not reported (`NR`), and the column records the value (`value`).

For combined long- and wide-formats

The PHES-ODM is designed as a series of long-format tables, but it is our aim to be as robust and easy to use as possible. To avoid issues of incongruity when moving between wide-format data recording templates and the final long-format data storage tables, we have designed a specific series of formulae to generate wide-format column names (or wide-names) using the part IDs from long-format tables, headers, and values. This may,

Wide-names

wide-names can be parsed automatically to reliably move translate data between formats without introducing errors.

Many environmental surveillance and research programs use combined long- and wide-format tables. To account for this, wide-names can contain a “see header” part for each piece of their formulas. These reference the header they point to, promoting data readability for machines and humans.

Let’s return to the first example tables from the start of this page:

date	compartment	specimen	fraction	measure	value	unit	aggregation
dec 17	water	sample	liquid	covid	32.1	gc/mL	single
				N1			
dec 17	water	sample	liquid	PMMoV	16.2	gc/mL	single
dec 17	water	sample	liquid	pH	8.2	unitless	single
dec 20	water	sample	liquid	covid	34.6	gc/mL	single
				N1			
dec 20	water	sample	liquid	PMMoV	19.6	gc/mL	single
dec 20	water	sample	liquid	pH	7.9	unitless	single

This is long-format data, and I’ve added some additional columns to record the fraction analyzed, the compartment, the specimen, etc. Now if we were to move to a wide-format, we could use the formulae described above and generate this kind of table:

	wat_sa_	wat_sa_	wat_sa_
	liq_covN1_	liq_pmmov_	liq_pH_
date	gcML_sin_NR	gcML_sin_NR	unitless_sin_NR
dec 17	32.1	16.2	8.2
dec 20	34.6	19.6	7.9

For combined long- and wide-formats

Now let's look at an example of a mixed long- and wide-format table. Something like this might arise where the initial table was developed for ODM long-format, but ultimately it was decided that the program wanted to record multiple measures in a single row. For this, we have what looks like standard ODM long-format for the first eight columns, but then the wide-format for the last two.

date	compartment	specimen	measure	value	unit	pH	PMMoV	unit-
						(go)	(go)	(less)
dec 17	water	sample	liquid covid	32.1	gc/mL	single	16.2	8.2
			N1					
dec 20	water	sample	liquid covid	34.6	gc/mL	single	19.6	7.9
			N1					

In this example, you can see that compartment, specimen, and fraction analyzed are applied also to the PMMoV and pH columns, as well as the measure column. In these instances a measure of PMMoV where the fraction analyzed is specified in a different column would use the wide-name:

`wat_sa_hFr_covN1_gcml_m_value`

Here the `hFr` indicates by its placement and the letters used that the fraction analyzed is specified elsewhere.

Another example is for data is reported in long-format for one measure, but wide-format for all others. In this situation the fraction analyzed, the measure, the units, and the aggregation are all specified in other columns. Rather than simply reporting `value` as you would an attribute, you would use the wide name:

`wat_sa_hFr_hMr_hUn_hAg_NR_value`

Wide-names

to better link all the metadata pieces in other columns to this specific measurement. So to recreate the above mixed-format table with the ODM coded wide-names, we would get:

mr_	mr_					hCo_hSp_	mr_	hCo_hSp_	hFr_pH_	
re-	com-	mr_	mr_	mr_	mr_	hFr_hMr_	ag-	hCo_hSpunit-	hFr_pmness_	
port	part-	speci-	frac-	mea-	hUn_hAgr	gre-	ga-	gcMl_sisn_NR_		
Date	ment	men	tion	sure	NR_valumit	NR_valumit	tion	NR_value	NR_value	
dec	water	sample	liquid	covid	32.1	gc/mlsingle	16.2	8.2		
17				N1						
dec	water	sample	liquid	covid	34.6	gc/mlsingle	19.6	7.9		
20				N1						

Wide-name exceptions

There is a diversity of wide-templates across labs. Sometimes these headers can combine two ODM attributes, or two or more methods or measures. This complicates mapping to the ODM, but unique wide-names can be generated for these as well.

Attribute naming exceptions

For combined attributes, the regular attribute formula (`tableShortName_attribute`) becomes

`tableShortName_n_aggregation_attribute1_..._attributeN`

Where `n` is an integer indicating the number of attributes being combined together, the `aggregation` is a boolean aggregation of either `OR` or `AND` to indicate whether the column records all of the attribute, or one or another. Finally, the attributes are listed in snake case. This wide-names is still machine readable.

For example, a wide-column name where sample collection period and collection number are reported together would be:

`sm_2_AND_collPer_collNum`

Wide-name exceptions

For `_AND_` style wide-names, the default separator must be a period (`.`). So for the `is` example, where we are recording the sample collection period and number together, a value of a 24-hour period with 12 collections would be `24.12`.

Measure and method naming exceptions

For combined measures or methods, the `..._n_...` approach is also used.

For measures, the formula is: `compartment_specimen_fraction_n_aggregation(bool)_me` where all measures must share the same units and aggregation. For example, a column to measure the presence of “other” mutations, alleles, or variants uses the wide-name `wat_sa_liq_3_OR_otherM_otherA_otherV_gcM1_m_value`.

For Methods the use case is slightly more constrained. Protocol steps are rarely combined into a single field. Protocol steps using one or more measures which report a single value would be highly unlikely to exist. Protocol steps using methods combinations only work and make sense because the inputs are categorical and defined. The suggested structure for a protocol step using only methods (and no measures) would follow the formula `tableShortName_partTypeShortName_n_aggregation_method1_..._methodN_attribute`.

For example a column where one specifies the protocol step for either pcr or sequencing strategy in a wastewater program would be called `ps_met_wat_sa_liq_2_OR_pcrmeth_seqStrat_value`.

In instances of `OR` wide names, the values sets for the different measures or methods are distinct, and the `sets` information for the input can be used to determine which method or measure is being reported.

Tutorials

Here's an example to walk you through moving from long-format to wide-format. Try to go through slowly and see if you can determine the correct answer before you read it.

Building a wide-format ODM headers

We're going to transform an example long-format measure table to wide-format. In figure 5 we see the list of all the possible headers in the `measures` table. Not all of the headers are mandatory, so you may choose not to use them all. Our tutorial here is just to write out what the wide name would be for each of these headers.

Tutorials

measures		
PK	measureRepID	varchar
FK	protocolID	varchar
FK	sampleID	varchar
FK	purposeID	varchar
FK	polygonID	varchar
FK	siteID	varchar
FK	datasetID	varchar
FK	measureSetRepID	varchar
	aDateStart	datetime
	aDateEnd	datetime
	reportDate	datetime
FK	compartment	varchar
FK	specimenID	varchar
FK	fraction	varchar
FK	group	varchar
FK	class	varchar
FK	measure	varchar
	value	varchar
FK	unit	varchar
FK	aggregation	varchar
FK	nomenclature	varchar
	index	int
FK	measureLic	varchar
	reportable	bool
FK	organizationID	varchar
FK	contactID	varchar
	refLink	varchar
	lastEdited	datetime

Figure 11.: **Figure 5 - Headers in the Measures Table**

Building a wide-format ODM headers

Everything in this table is an attribute, except for (eventually) the value field. We know that attributes use the structure:

tableShortName_attribute

So with that in mind, see if you can type up or write out what you think the ODM wide name would be for all of these headers - skipping the value header. Keep in mind that for **headers that are foreign keys (noted FK in figure 5), that the table short name used should be the table in which those attributes are a primary key**. You may want to consult the [ERD](#) and the [parts list](#) to double check which tables host the primary keys and what the short names are for those tables.

Once you have tried coming up with the wide names, check your answers against the equivalent wide names listed below:

- mr_measureRepID
- pr_protocolID
- sm_sampleID
- pa_purpose
- po_polygonID
- st_siteID
- ds_datasetID
- ms_measureSetRepID
- mr_aDateStart
- mr_aDateEnd
- mr_reportDate
- pa_specimen
- pa_fraction
- pa_group
- pa_class
- pa_measure
- pa_unit
- pa_aggregation

Tutorials

- pa_nomenclature
- mr_index
- mr_mesureLic
- mr_reportable
- mr_organizationID
- mr_contactID
- mr_refLink
- mr_lastEdited
- mr_notes

Building a wide-format ODM table

Now lets try an example using a shortened version of the measures table, populated with some fake data.

date	compart	spen	me	fraction	measure	value	unit	aggregation	index
dec 17	water	sample	liquid	Mpox		32.1	gc/mL	single	1
dec 17	water	sample	mixed	PMMoV		16.2	gc/mL	single	2
dec 17	air	sample	NA	s2083i		8.2	gc	single	NA
				omicron-					
				variant					
				gene					
				target					
dec 20	water	site	liquid	Flow		34.6	ML/dayarith.	NA	
				rate			mean		
dec 20	surface	sample	NA	Influenza		19.6	gc/mL	single	NA
				virus A1					
dec 20	water	sample	liquid	pH		7.9	unitless	single	2

Building a wide-format ODM table

Everything in this mini-table is part of a measurement-value wide-name, except for date. We know that measurements use the structure:

`compartment_specimen_fraction_measure_unit_aggregation_index_attribute`

So with that in mind, see if you can type up or write out what you think the ODM wide name would be for all of these headers - including `date` as an attribute. You may want to consult the [ERD](#) and the [parts list](#) to double check which tables host the primary keys and what the short names are for those tables.

The answer key for the wide version of this mini-table is here:

	wat_sa_	liq_pH_				
mr_	wat_sa_	wat_sa_	air_sa_	wat_si_	surf_sa_	unit-
report-	liq_mpox	mix_pmm	NA_s2083	liq_floRate	NA_fluA1less	
Date	_gcml_sin_gcml_singc_sin_NA	mld_me_gcml_sin_sin_2				
	1_value	2_value	_value	NA_value	NA_value	value
dec 17	32.1	16.2	8.2	NA	NA	NA
dec 20	NA	NA	NA	34.6	19.6	7.9

How-To Guides

The `wideNames` table has been added for the v2.3 release, and includes the wide-names that are in current use of which we are aware. The table has also been set up with drop down menus, similar to the data input templates. This way, users can fill out the information for a given header, and have the ODM-formatted wide name generated automatically.

Wide-name Templates

Please check out the wide names table and tamplate here [LINK TBA], and don't forget to let us know what wide names you are using, so that we can add them to the list.

Part I.

Reference guide

Dictionary v2.2.3 Documentation v2.1.0

The reference guide is a technical description of the ODM **parts**. There are three sections to the reference guide.

- **parts** – Parts are the smallest way of describing anything in the ODM. An analogy to parts of a car can be used to illustrate this point. If you own a car, your garage can access a parts list that contains every part of your car, right down to every nut and bolt. There are over 900 parts, all listed in alphabetical order. Each part has up to 60 different attributes such as the part name and description.
- **tables** - The ODM database model has 21 tables in its full relational database. The full model is commonly referred to as “long” tables as it stores data with one measurement per row. The most important tables are the ‘report’ tables that are used for daily reporting of measures and samples.
- **sets** - Sets are lists or collections of parts. You can think of sets as the elements of drop down lists or categories.

Did you know that each part ID has its own URL?

Every part, table, and set has its own URL, that is created using the partID. partIDs are usually parentheses that follow a part, table, or set name.

For example, ‘airport’ is a sample shed category which would appear as: **Airport** ([airport](#)). The permanent link to the airport partID is, <https://docs.phes-odm.org/parts.html#airport>. Airport also is listed in the **Sampleshed category set** ([shedCatSet](#)).

Parts

Dictionary v2.2.3 Documentation v2.1.0

Parts are the smallest way of describing anything in the ODM. An analogy to parts of a car can be used to illustrate this point. If you own a car, your garage can access a parts list that contains every part of your car, right down to every nut and bolt. Similarly, the ODM has a **part ID** ([partID](#)) and **part description** ([partDescription](#)) for every measure, method, and attribute. There are also **part IDs** for **units**, **aggregations**, and other **parts**. The part list is presented below.

 Did you know you can identify part IDs by their specific naming format?

Each part ID starts with a lowercase character and contains no special characters. Parts have less than 12 characters, while part types such as units and aggregations have a maximum of seven characters.

The unique construction of part IDs serves several purposes in addition to generating valid URLs. Users can create wide table variable names (headers) using part IDs that are valid in all open software languages. ODM supports a standard method of generating wide variable names by concatenating partIDs with an underscore, `_`. For this reason, some part types have a limit of seven characters to ensure the total length of wide names remains less than 35 characters, which is the character limit length of some statistical language software. The wide variable naming method will be added to the documentation.

Parts

a1306s delta-variant gene target

(a1306s). a1306s delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

a1918v delta-variant gene target

(a1918v). a1918v delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

a2710t omicron-variant gene target

(a2710t). a2710t omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet

Parts

Minimum Value: seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

a63t omicron-variant gene target

(a63t). a63t omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

a67v omicron-variant gene target

(a67v). a67v omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Omicron Variant a67v del69 and del70 mutations

(a67vDel69Del70). Omicron Variant a67v mutation, and del 69 and del70 mutations co-occurring *Part Type:* measurements *Domain:* bio *Speciment*

Parts

ID: saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* omicronGrp *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Atline Analyzer

(aas). Atline analyzer with sampler. An atline analyzer with sampler. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Absolute humidity

(absHum). A measure of the total mass of water vapour present in the air per volume of air. *Part Type:* measurements *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* siteFeat *Class:* humid *Nomenclature:* humid *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* absHumidUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Absolute humidity unit set

(absHumidUnitSet). Unit set for absolute humidity measurements. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: absHumidUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Academic institution

(academ). The category of organization type used for academic institutions or research groups. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Acinetobacter

(acinetobacter). Acinetobacter *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: acinetobacterGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum*

Parts

Value: seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA
Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Acinetobacter Group

(acinetobacterGrp). A group of measures/methods related to acinebacter bacteria. Used to describe the organism information for general measures.
Part Type: groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* acinetobacterGrp *Class:* organism
Nomenclature: organism *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA
Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Number of active cases

(acti). Number of active cases. *Part Type:* units *Domain:* bio *Speciment ID:* poSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Number of active cases by episode date

(actiEp). Number of active cases by episode date. Episode date is the earliest of onset, test or reported date for a confirmed case. *Part Type:*

Parts

units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: na-
CompartmentSet Group: naGroup *Class*: naClass *Nomenclature*: naClass
Ontology Reference: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active.
First released: active. Last updated: 2.2.0.

Number of active cases by Onset date

(actiOn). Number of active cases by onset date. Episode date is the earliest of onset, test or reported date for a confirmed case. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: na-
CompartmentSet Group: naGroup *Class*: naClass *Nomenclature*: naClass
Ontology Reference: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active.
First released: active. Last updated: 2.2.0.

Number of active cases by Report date

(actiRep). Number of active cases by report date. Episode date is the earliest of onset, test or reported date for a confirmed case. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: na-
CompartmentSet Group: naGroup *Class*: naClass *Nomenclature*: naClass
Ontology Reference: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active.
First released: active. Last updated: 2.2.0.

Parts

Number of active cases by test date

(actiTest). Number of active cases by test date. Episode date is the earliest of onset, test or reported date for a confirmed case. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: na-CompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Active

(active). Indicator that a part is in current use. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: na-CompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Address table Shorthand

(ad). The abbreviated short name used to reference the The table that contains information about addresses. Addresses can recorded for sites, organizations or contacts (indivduals). table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: na-CompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar

Parts

Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.2.

Analysis date

(aDate). Date the measurement was performed in the lab. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* datetime *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.1.0.

Analysis date end

(aDateEnd). Date the measurement or analysis was completed. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* datetime *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Analysis date start

(aDateStart). Date the measurement or analysis was started. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:*

Parts

naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: datetime Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Address Line 1

(addL1). Line 1 (the street name, number and direction) for a given address. *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Address Line 2

(addL2). Line 2 (the unit number) for a given address. *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Address table

(addresses). The table that contains information about addresses. Addresses can recorded for sites, organizations or contacts (indivduals). The

Sites, Organizations, and Contacts tables include a link to the addresses table through Address ID. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: programDescr *Nomenclature*: programDescr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Addresses table column order

(addressesOrder). Specifies the order of the columns in the Addresses table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Address table required headers

(addressesRequired). Specifies the columns required in a Addresses table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Address ID

(addressID). A unique identifier for an address. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Adenovirus (F40/41)

(adenovirusF40). Adenovirus (F40/41) *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: adenovirusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Adenovirus Group

(adenovirusGrp). A group of measures/methods related to Adenoviruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: adenovirusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Administrative regions

(admRegLevel). Administrative regions *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* nrNAMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.1.0.

Adenovirus 40

(adv40). Adenovirus serotype 40. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* adenovirusGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.0.

Adenovirus 41

(adv41). Adenovirus serotype 41. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* adenovirusGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:*

Parts

varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

Adenovirus F41 Fibre Gene Target

(advF41Fibre). Human Adenovirus Group F41 Fiber gene target *Part Type*: measurements *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: adenovirusGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

Academic Free License v3.0

(afl30). The licensing for the measure or data set is managed under the Academic Free License v3.0. *Part Type*: categories *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/afl-3.0/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Air filter

(afu). Air filter as part of filtration or circulating unit. Typically the unit would have a fan or blower. *Part Type*: categories *Domain*: naDomain

Parts

Speciment ID: saSpecimenSet *Compartment Set:* airCompartmentSet
Group: colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA
Category Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA
Quality Set: NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA
Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Aggregation scale

(aggregationScale). A scale used for an aggregation. Only applicable for measures and units. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA
Category Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 12 *Part Status:* active. First released: active. Last updated: 2.0.0.

Aggregation

(aggregation). Statistical measures used to report a measure. Each aggregation has a corresponding value. The default aggregation is ‘single’, which corresponds to a single measurement. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 12 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Aggregation input (wide table)

(aggregationInput). The partID for the aggregation being used in a wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Aggregation name (wide table)

(aggregationName). The aggregation referenced for the wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Aggregations

(aggregations). Statistical measures used to report a measure. Each measure reported as a number should be reported with an aggregation. The default aggregation is ‘single’, which corresponds to a single measurement. *Part Type*: partType *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*:

Parts

NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Aggregation scales

(aggregationScales). The scale of an aggregation set. Aggregation scales include quantitative and qualitative. *Part Type: partType Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Aggregation set

(aggregationSet). The aggregation set for a unit. *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 12 Part Status: active. First released: active. Last updated: 2.0.0.*

Aggregation sets

(aggregationSets). Sets of aggregations. Examples of aggregation sets include logarithm, linear and boolean. *Part Type: partType Domain:*

Parts

naDomain Speciment ID: naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

GNU Afferro General Public License v3.0

(agpl30). The licensing for the measure or data set is managed under the GNU Affero General Public License v3.0. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/agpl-3.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Air compartment

(air). A measure or observation made from a substance in the air. *Part Type:* compartments *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:* airCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* active. First released: active. Last updated: 2.0.0.

Air compartment set

(airCompartmentSet). A compartment set for measures and methods in the air compartment. *Part Type*: compartmentSets *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: airCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Airplane

(airpln). Airplane sample shed category type *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Airport

(airport). Airport sample shed category type *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar

Parts

Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Airport lists worksheet

(airportLists). Parts lists used to generate airport and airplane data entry templates. *Part Type:* dictionarySupport *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Airport Sheets Set

(airportSheetSet). Worksheets in the full airport surveillance template (list + template). ‘ODM_template-planes_{version}.xlxs *Part Type:* dictSets *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Airport Surveillance Template

(airportTemplate). The input template for airport and airplane surveillance in the EU. *Part Type:* dictionarySupport *Domain:* naDomain *Spec-*

iment ID: saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.1.0.

Air and surface compartment set

(airSurfaceCompartmentSet). A compartment set for measures and methods in the air or surface compartments. *Part Type:* compartmentSets *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:* airSurfaceCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Environmental temperature

(airTemp). Environmental temperature. *Part Type:* measurements *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* siteFeat *Class:* temperature *Nomenclature:* temperature *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* temperatureUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Air and water compartment set

(airWaterCompartmentSet). A compartment set for measures and methods in the air or water compartments. *Part Type*: compartmentSets *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: airWaterCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Alias depreciated

(aliasDep). ID of an assay that is the same or similar. A comma separated list. Deprecated as of version 2, please avoid use. Use notes instead. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 10 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Alias ID depreciated

(aliasIDDep). Alias id ID of an assay that is the same or similar. a comma separated list. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA

Parts

Reference Link: NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 10 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

All domains

(allDo). Domain that specifies that it could apply to all domains; biological, chemical, and physical. *Part Type:* domains *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Alleles class

(allele). Measures and methods related to alleles. *Part Type:* classes *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Allele unit set

(alleleUnitSet). Unit set for alleles. *Part Type:* unitSets *Domain:* naDomain *Speciment ID:* siSpecimenSet *Compartment Set:* naCompartmentSet

Parts

Group: naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* alleleUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Access to all org

(allOrgs). If this is ‘no’, this data will not be available to any partner organization. If missing, data will be available to the all organizations. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Assay Limit of Detection (LOD)

(alod). The minimum level of a target consistently detectable (e.g., with 95% probability) using the assay considering only the amplification and quantification steps of RT-qPCR. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Aloh3 precipitation

(aloh3). Aloh3 precipitation *Part Type*: categories *Domain*: che *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Assay method id default depreciated

(amDefDep). Used as default when a new measurement is created for this lab. See ID in AssayMethod table. Deprecated as of version 2, please avoid use. Specify in type, or contact the PHES-ODM research team to add your specific item via a github issue (<https://github.com/Big-Life-Lab/PHES-ODM/issues>), or at phesd_odm@ohri.ca *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Amicon ultrafiltration

(amiconUf). Amicon ultrafiltration *Part Type*: categories *Domain*: che *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*:

Parts

NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Amicon filter, extract with MP96

(amiMP96). Nucleic acid extraction, usually used for the liquid fraction of a wastewater sample, using amicon filtration and using an MP96 for final extraction. *Part Type*: categories *Domain*: bio *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 10 *Part Status*: active. First released: active. Last updated: 2.0.0.

Amplicon sequencing

(amp). Specifies the amplicon strategy for genetic sequencing *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 10 *Part Status*: active. First released: active. Last updated: 2.0.0.

Anti-microbial resistance Group

(amrGrp). The group for measures and methods pertaining to anti-microbial resistant microbes (general). *Part Type*: groups *Domain*: bio

Parts

Speciment ID: saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* amrGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 50 *Part Status:* active. First released: active. Last updated: 2.1.0.

Anaplasma Group

(anaplasmaGrp). A group of measures/methods related to anaplasma bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* anaplasmaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

AND Boolean aggregation

(andBoo). “AND” aggregation. If all values in the aggregation is “TRUE” then the AND aggregation is also “TRUE”. If all values in the aggregation is “FALSE” then the AND aggregation is also “TRUE”. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

annealing/extension

(anneal). Describes the annealing and/or extension cycle in a PCR process. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Any compartment set

(anyCompartmentSet). A compartment set for measures and methods in any compartment. *Part Type*: compartmentSets *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Any specimen set

(anySpecimenSet). A specimen set that includes any specimen. *Part Type*: specimenSets *Domain*: naDomain *Speciment ID*: anySpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*:

NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Apache license 2.0

(apache20). The licensing for the measure or data set is managed under the Apache license 2.0. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/apache-2.0/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Anaplasma phagocytophilum

(aPhagocytophilum). Anaplasma phagocytophilum *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: anaplasmaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Area proportional sample

(areaPr). An area proportional sample. Used for surface testing. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: surfaceCompartmentSet *Group*: colGrp *Class*: naClass

Parts

Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Arrival temperature

(arTemp). The temperature of a sample upon arrival at the laboratory for analysis. *Part Type:* measurements *Domain:* phy *Speciment ID:* siSaS-specimenSet *Compartment Set:* waterCompartmentSet *Group:* miscMeas *Class:* temperature *Nomenclature:* temperature *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* temperatureUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Use of the articV3 primer

(articV3). Initial implementation of an ARTIC bioinformatics platform for nanopore sequencing of nCoV2019 novel coronavirus; Artic Foundation v3 primer. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Use of the articV4 primer

(articV4). Artic V4 sequencing primer for VOCs and VOIs. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* na-Class *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Artistic license 2.0

(artistic20). The licensing for the measure or data set is managed under the Artistic license 2.0. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/artistic-2.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Assay ID

(asID). Links with the AssayMethod used to perform the analysis. Use instrument.ID for measures that are not viral measures. Deprecated as of version 2, please avoid use. Refer to methodID instead. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data*

Parts

Type: varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA
Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated.** First released: depreciated. Last updated: 2.0.0.

Astrovirus

(astrovirus). Astrovirus *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* astrovirusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Astrovirus Group

(astrovirusGrp). A group of measures/methods related to astroviruses. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* astrovirusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Attribute input (wide table)

(attributeInput). The partID for the attribute being used in a wide name. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass

Parts

Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Attribute name (wide table)

(attributeName). The attribute referenced for the wide name. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Attributes

(attributes). Attributes describe the who, where, when, and why of environmental surveillance. There are attributes for domain, specimen, compartment, or table. Attributes are one of the three main components or ways to report environment surveillance data. The other two components are measures and methods. *Part Type:* partType *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Automatic composite sampling

(autoComp). A composite sampler which is automated to collect and store multiple wastewater samples across multiple time points. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Automatic sequential sampling

(autoSeq). A composite sampler which is automated to collect and combine multiple samples of equal volume taken at a set time interval. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Babesia

(babesia). Babesia *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: babesia-Grp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal

Parts

Maximum Value: seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Babesia or Nuttallia Group

(babesiaGrp). A group of measures/methods related to babesia parasites. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* babesiaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Bacteroides 16S forward primer (HF183) (ABI)

(bact16sABIFor). Bacteroides 16S forward primer (HF183) (ABI) *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bacteroidesGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Bacteroides 16S probe (BacP234) (ABI)

(bact16sABIProbe). Bacteroides 16S probe (BacP234) (ABI) *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bacteroidesGrp *Class:* pcr *Nomenclature:*

Parts

pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Bacteroides 16S reverse primer (BacR287) (ABI)

(bact16sABIRev). Bacteroides 16S reverse primer (BacR287) (ABI) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: bacteroidesGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Bacteria Class

(bacteria). Measures and methods relating to bacteria. *Part Type*: classes *Domain*: bio *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: bacteria *Nomenclature*: bacteria *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: bacteriaUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Bacteria unit set

(bacteriaUnitSet). Unit set for bacteria-related measurements. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment*

Parts

Set: anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* bacteriaUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Bacteroides Group

(bacteroidesGrp). A group of measures/methods related to bacteroides bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bacteroidesGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Miscellaneous bacteria group

(bactMisc). A group of measures/methods related to miscellaneous bacteria. The miscallenous bacteria are often have only one measure or method. When a bacteria has many measures, they will be given their own groupID in updated dictionary versions. *Part Type:* groups *Domain:* bio *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bact-Misc *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.2.0.

Parts

Bead beating, extract with MP96

(bbMP96). Nucleic acid extraction, usually used for solid fraction of a wastewater sample, using bead beating and using an MP96 for final extraction. *Part Type*: categories *Domain*: bio *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 10 *Part Status*: active. First released: active. Last updated: 2.0.0.

Borrelia burgdorferi

(bBurgdorferi). Borrelia burgdorferi *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: borreliaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

bcov

(bcov). Measure of the amount of bovine coronavirus. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: betaCoronaGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*:

Parts

NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

bcov culture spike target

(bcovCul). Cultured bovine coronavirus is used as the recovery efficiency control target. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

bcov spike target (unspecified)

(bcovGen). The bovine coronavirus (unspecified) is used as the recovery efficiency control target. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

bcov vaccine spike target

(bcovVac). The bovine coronavirus vaccine is used as the recovery efficiency control target. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp

Parts

Class: naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Beef extract flocculation

(beeExtractFloc). Beef extract flocculation. *Part Type:* categories *Domain:* che *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Is Before

(before). Specifies that the object step or protocol occurs before the subject step or protocol in the overall protocol container. Use only for protocolRelationships table relationshipID. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Below LOD

(beLOD). Measure is below the limit of detection (LOD) for a specific analyte. *Part Type*: qualityIndicators *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Measured levels below LOQ

(belowLOQ). Indicates that a measurement detected the analyte, but at levels below the limit of quantification (LOQ). *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Beta

(beta). B.1.351 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness*

Parts

Set: genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Beta Coronavirus Group

(betaCoronaGrp). A group of measures/methods related to beta coronaviruses. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* betaCoronaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Biologic

(bio). A living organism or biological substance. *Part Type:* domains *Domain:* bio *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Digital droplet emulsification PCR

(bioRadDdpcr). Describes a PCR analysis done using BioRad's digital droplet emulsification PCR technology. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet

Parts

Group: naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Beta-Lactamase Anti-microbial resistance Group

(bLacAMRGrp). The group for measures and methods pertaining to beta-lactamase-related anti-microbial resistance. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bLacAMRGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 50 *Part Status:* active. First released: active. Last updated: 2.1.0.

Cephamycin Beta-Lactamase-Resistance gene target

(blaCMY). Cephamycin Beta-Lactamase anti-microbial resistance gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bLacAMRGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://www.mediterraneинфекци.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

CTX-M Beta-Lactamase-Resistance gene target

(blaCTXM1). CTX-M Beta-Lactamase anti-microbial resistance gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: bLacAMRGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: <https://www.mediterranee-infection.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Impenemase (IMP) Beta-Lactamase-Resistance gene target

(blaIMP). Impenemase (IMP) Beta-Lactamase anti-microbial resistance gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: bLacAMRGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: <https://www.mediterranee-infection.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Klebsiella pneumoniae Carbapenam (KPC) Beta-Lactamase-Resistance gene target

(blaKPC). Klebsiella pneumoniae Carbapenam (KPC) Beta-Lactamase anti-microbial resistance gene target. *Part Type*: measurements *Domain*:

Parts

bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: bLacAMRGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: <https://www.mediterranee-infection.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

New-Delhi Metallo- (NDM) Beta-Lactamase-Resistance gene target

(blaNDM). New-Delhi Metallo- (NDM) Beta-Lactamase anti-microbial resistance gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: bLacAMRGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: <https://www.mediterranee-infection.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

OXA-type Beta-Lactamase-Resistance gene target

(blaOXA48). OXA-type Beta-Lactamase anti-microbial resistance gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: bLacAMRGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category*

Parts

Set ID: NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://www.mediterranee-infection.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

SHV Beta-Lactamase-Resistance gene target

(blaSHV). SHV-type Beta-Lactamase anti-microbial resistance gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bLacAMRGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://www.mediterranee-infection.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

TEM Beta-Lactamase-Resistance gene target

(blaTEM). TEM-type Beta-Lactamase anti-microbial resistance gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bLacAMRGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://www.mediterranee-infection.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type:* seeUnitData

Parts

Missingness Set: genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA
Part Status: active. First released: active. Last updated: 2.2.0.

Verone Integron-Encoded Metallo- (VIM) Beta-Lactamase-Resistance-resistance gene target

(blaVIM). Verone Integron-Encoded Metallo- (VIM) Beta-Lactamase anti-microbial resistance gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bLacAMRGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://www.mediterranee-infection.com/acces-ressources/base-de-donnees/arg-annot-2/> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Binary Large Object (BLOB) data type

(blob). The data type for Binary Large Object (BLOB) data. Only used for the dictionary entries of parts. *Part Type:* dataTypes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Breadth of coverage (>=5x depth)

(boc). Positions with read depth greater or equal to 5. Report as percentage of positions. *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 100 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

5-Day carbonaceous biochemical oxygen demand

(bod5c). The quantity, of oxygen utilized for the biochemical degradation of organic matter under standard procedures, in five (5) days in the presence of a nitrification inhibitor, expressed in milligrams per litre, (mg/l). *Part Type*: measurements *Domain*: bio *Speciment ID*: siSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: miscMeas *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: <https://doi.org/10.1002/wer.1541> *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

5-day total biochemical oxygen demand

(bod5t). 5 day total biochemical oxygen demand. *Part Type*: measurements *Domain*: bio *Speciment ID*: siSpecimenSet *Compartment Set*: wa-

terCompartmentSet *Group*: miscMeas *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: <https://doi.org/10.1002/wer.1541> *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Boolean data type

(boolean). The data type for boolean/binary data. Encoded as ‘TRUE’ or ‘FALSE’ *Part Type*: dataTypes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Boolean aggregation set

(booleanAggrSet). Aggreagation set for boolean. *Part Type*: aggregationSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Boolean value set

(booleanSet). Set that contains the valid possible values for a boolean measure (TRUE or FALSE). *Part Type*: mmaSets *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: booleanSet *Unit Set*: NA *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Borrelia burgdorferi or Lyme Disease Group

(borreliaGrp). A group of measures/methods related to Borrelia burgdorferi or Lyme Disease. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: borreliaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Bovine respiratory syncytial virus group

(brsv). Bovine respiratory syncytial virus. *Part Type*: measurements *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rsvGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*:

Parts

varchar *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

brsv culture spike target

(brsvCul). Cultured bovine respiratory syncytial virus (BRSV) is used as the recovery efficiency control target. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

BRSV-N

(brsvN). bovine respiratory syncytial virus capsid protein gene region *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rsvGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

brsv vaccine spike target

(brsvVac). The bovine respiratory syncytial virus (BRSV) vaccine is used as the recovery efficiency control target. *Part Type*: categories *Domain*:

Parts

bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Brucella

(brucella). Brucella *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: brucellaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Brucella Group

(brucellaGrp). A group of measures/methods related to brucella bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: brucellaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

BSD Zero-Clause license

(bsd0). The licensing for the measure or data set is managed under the BSD Zero-Clause license. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/0bsd/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

BSD 2-clause “Simplified” license

(bsd2Clause). The licensing for the measure or data set is managed under the BSD 2-clause “Simplified” license. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/bsd-2-clause/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

BSD 3-clause “New” or “Revised” license

(bsd3Clause). The licensing for the measure or data set is managed under the BSD 3-clause “New” or “Revised” license. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*:

Parts

naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: https://choosealicense.com/licenses/bsd-3-clause/ Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.

BSD 3-clause Clear license

(bsd3ClauseClear). The licensing for the measure or data set is managed under the BSD 3-clause Clear license. *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: https://choosealicense.com/licenses/bsd-3-clause-clear/ Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

BSD 4-clause “Original” or “Old” license

(bsd4Clause). The licensing for the measure or data set is managed under the BSD 4-clause “Original” or “Old” license. *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: https://choosealicense.com/licenses/bsd-4-clause/ Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

Boost Software License 1.0

(bsl10). The licensing for the measure or data set is managed under the Boost Software License 1.0. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/bsl-1.0/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Branch sewer pipeline

(bSwrPpl). Specifies a site type that is collection pipe that run lateral to other municipal sewer lines, allowing drainage into the main sewer. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Building cleanout

(buildCO). Specifies a site type that is a capped pipe that connects to a building's main sewer line. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness*

Parts

Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Bus

(bus). A large motor vehicle carrying passengers by road, typically one serving the public on a fixed route and for a fare. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Bus Station

(busStat). A terminal where buses arrive and depart. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Caffeine

(caff). Caffeine (usually measured as a human fecal chemical indicator) *Part Type:* measurements *Domain:* che *Speciment ID:* siSaSpecimenSet

Parts

Compartment Set: waterCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Campylobacter

(camp). Campylobacter. *Part Type:* measurements *Domain:* bio *Specimen ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* campGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* bacteriaUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.0.

Campylobacter Group

(campGrp). A group of measures/methods related to campylobacter bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Specimen ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* campGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Capacity class

(capacity). Measures and methods relating to capacity. *Part Type:* classes *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* capacity *Nomenclature:* capacity *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* capacityUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Capacity unit set

(capacityUnitSet). Unit set for capacity measurements. *Part Type:* unitSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* na-Class *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* capacityUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Capital city endonym

(capitalEndonym). The name locals use for their country, Åö/Ñ/¥s capital. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum*

Parts

Value: NA *Minimum Length:* 0 *Maximum Length:* 75 *Part Status:* active.
First released: active. Last updated: 2.1.0.

Capital city exonym

(capitalExonym). The English name foreigners use for the country,Ã¶/Ñ/¥s capital. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 75 *Part Status:* active. First released: active. Last updated: 2.1.0.

Case report date

(caRepDate). Date that the numbers were reported publicly. Typically, reported data and this measure is most commonly reported and used. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Episode date of confirmed cases

(caseEpDate). Episode date is the earliest of onset, test or reported date for a confirmed case. *Part Type:* units *Domain:* bio *Speciment ID:* poSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:*

Parts

naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: datetime *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Onset date of confirmed cases

(caseOnDate). Earliest that symptoms were reported for a confirmed case. This data is often not known and reported. In lieu, episode is used. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: datetime *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Report date of confirmed cases

(caseRepDate). Date that the numbers were reported publicly for a confirmed case. Typically, reported data and this measure is most commonly reported and used. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: datetime *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Test date of confirmed cases

(caseTestDate). Date that the covid-19 test was performed for a confirmed case. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: datetime *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Categorical data type

(categorical). The data type for categorical data. Only used for the dictionary entries of parts. *Part Type*: dataTypes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Categories

(categories). A discrete list of values that can be reported for a measure, method or attribute. A use-case example of categories would be how they are used to record the site where a measure is taken (partID = geoType). For the geoType attribute there are different type of sites where samples can be taken: a wastewater treatment plant, airplane holding tank, wastewater pumping station, etc. Each of these site types is recorded as a category

Parts

that can be identified in categorySetID = sTypeCatSets *Part Type*: part-Type *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnit-Set *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Candida auris

(cAuris). The yeast species Candida auris, or C. auris. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: cAurisGrp *Class*: bacteria *Nomenclature*: bacteria *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: bacteri-aUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

Candida auris Group

(cAurisGrp). A group of measures/methods related to Candida auris. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: cAurisGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Carbapenemase-encoding genes

(cbp). Carbapenemase-encoding genes. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: amrGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

Creative Commons Zero v1.0 Universal

(cc010). The licensing for the measure or data set is managed under the Creative Commons Zero v1.0 Universal. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/cc0-1.0/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Creative Commons Attribution 4.0

(ccby40). The licensing for the measure or data set is managed under the Creative Commons Attribution 4.0. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*:

Parts

<https://choosealicense.com/licenses/cc-by-4.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

CC BY-NC 4.0 license

(ccbync40). The licensing for the measure or data set is managed under the Creative Commons 4.0 by-attribution, non-commercial international license. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://creativecommons.org/licenses/by-nc/4.0/deed.en> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

CC BY-NC-SA 4.0 license

(ccbyncsa40). The licensing for the measure or data set is managed under the Creative Commons 4.0 by-attribution, non-commercial, and sharealike international license. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://creativecommons.org/licenses/by-nc-sa/4.0/deed.en> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Creative Commons Attribution ShareAlike 4.0

(ccbysa40). The licensing for the measure or data set is managed under the Creative Commons Attribution ShareAlike 4.0. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/cc-by-sa-4.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Long-term acute care hospital

(ccc). Acute care hospitals, or complex continuing care, that provide care for patients with average length of stay longer than 25 days. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Child day care

(cdc). Child day care facility. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness*

Parts

Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Sarboco_E forward primer (IDT)

(cdcCovEIDTFor). Sarboco_E forward primer (IDT) *Part Type: categories Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: sarsCov2 Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: unitlessUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

Sarboco_E probe (IDT)

(cdcCovEIDTProbe). Sarboco_E probe (IDT) *Part Type: categories Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: sarsCov2 Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: unitlessUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

Sarboco_E reverse primer (IDT)

(cdcCovEIDTRev). Sarboco_E reverse primer (IDT) *Part Type: categories Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: sarsCov2 Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: unitlessUnitSet Ag-*

Parts

Aggregation Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

2019-nCoV_N1 forward primer (IDT)

(cdcCovN1IDTFor). 2019-nCoV_N1 forward primer (IDT) *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

2019-nCoV_N1 probe (IDT)

(cdcCovN1IDTProbe). 2019-nCoV_N1 probe (IDT) *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

2019-nCoV_N1 reverse primer (IDT)

(cdcCovN1IDTRev). 2019-nCoV_N1 reverse primer (IDT) *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:*

Parts

anyCompartmentSet Group: sarsCov2 Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: unitlessUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.

2019-nCoV_N2 forward primer (IDT)

(cdcCovN2IDTFor). 2019-nCoV_N2 forward primer (IDT) *Part Type: categories Domain: bio Specimen ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: sarsCov2 Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: unitlessUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

2019-nCoV_N2 probe (IDT)

(cdcCovN2IDTProbe). 2019-nCoV_N2 probe (IDT) *Part Type: categories Domain: bio Specimen ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: sarsCov2 Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: unitlessUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

2019-nCoV_N2 reverse primer (IDT)

(cdcCovN2IDTRev). 2019-nCoV_N2 reverse primer (IDT) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

2019-nCoV_N3 forward primer (IDT)

(cdcCovN3IDTFor). 2019-nCoV_N3 forward primer (IDT) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

2019-nCoV_N3 probe (IDT)

(cdcCovN3IDTProbe). 2019-nCoV_N3 probe (IDT) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

2019-nCoV_N3 reverse primer (IDT)

(cdcCovN3IDTRev). 2019-nCoV_N3 reverse primer (IDT) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Clostridium difficile

(cDiff). Clostridium difficile *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: clostridiumGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Corynebacterium diphtheriae

(cDip). Corynebacterium diphtheriae *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: diphteriaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Length: NA *Part Status:* active. First released: active. Last updated: 2.2.0.

CeCILL Free Software License Agreement v2.1

(cecill21). The licensing for the measure or data set is managed under the CeCILL Free Software License Agreement v2.1. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/cecill-2.1/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Degrees Celcius

(cel). Degrees Celsius. *Part Type:* units *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* -60 *Maximum Value:* 100 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Centrifugation

(cent). Describes solid separation from a wastewater sample via centrifugation. Likely connected to other method steps prior to analysis. *Part*

Parts

Type: categories *Domain:* allDo *Speciment ID:* saSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Centricon ultrafiltration

(centriconUf). Centricon ultrafiltration. *Part Type:* categories *Domain:* che *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Centrifugation speed

(centSpeed). Centrifugation speed *Part Type:* measurements *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* speed *Nomenclature:* speed *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* speedUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Ceres nanotrap

(ceres). Ceres nanotrap. *Part Type*: categories *Domain*: che *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: proc-Grp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

CFU per 100 ml

(cfu). Colony forming units per 100 ml of filtered sample. *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Changes column

(changes). A column for recording the changes from a previous version. Use this column as a short-hand change log for dictionary development. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*:

Parts

NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

character length

(charLength). The number of characters used for the wide names. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Chemical

(che). A chemical compound. *Part Type*: domains *Domain*: che *Speciment ID*: anySpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Chemagic viral dna/rna 300 kit

(chemVir). Nucleic acid extraction performed using the chemagic viral dna/rna 300 kit. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*:

Parts

NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Chikungunya Group

(chikungunyaGrp). A group of measures/methods related to chikungunya virus. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: chikungunyaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Chikungunya virus (CHIKV)

(chikv). Chikungunya virus (CHIKV) *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: chikungunyaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Child relationship

(child). Indicated that this is a sample generated from (an)other sample(s) either because of pooling or sub-sampling. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Chlamydia

(chlamydia). Chlamydia *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: chlamydiaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Chlamydia Group

(chlamydiaGrp). A group of measures/methods related to chlamydia bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: chlamydiaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

City

(city). The city where a site or organization is located; part of the address.
Part Type: attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet
Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Campylobacter jejuni bacteria

(cJejuni). Campylobacter jejuni gene target/measurement *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* campGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* bacteriaUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://www.sciencedirect.com/science/article/pii/S0882401017303728?via%3DhubData> *Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.0.

Composite Key

(cK). Composite key for a table. All report tables have a primary key - the composite key acts as a primary key, but it produced as a combination of other fields. Each row in a report table has unique identifier

Parts

recorded in the primary key/composite key. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Clarified sample

(clari). Clarified sample. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Class

(class). A unique identifier for a class, which is akin to a sub-group; it's a way of grouping parts within a given group. A group can have one or more classes to describe different parts of the class. Currently, class is only used for biologics. For example, SARS-CoV-2 is a group of measures with the following classes of allele, variant, mutation, sequence, and protein. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Classes

(classes). A class is a collection of one or more related measures or methods within a group. A group can have one or more classes to describe different parts or the class. *Part Type:* partType *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Clostridium Group

(clostridiumGrp). A group of measures/methods related to clostridium bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* clostridiumGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Cloudy

(cloudy). Qualitative category for the weather measure, specifying an overcast day with no rain. *Part Type:* categories *Domain:* phy *Speciment ID:*

Parts

siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat
Class: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Centimetres

(cm). Unit part for the SI unit of centimetres. *Part Type*: units *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Contact table Shorthand

(co). The abbreviated short name used to reference the The table that contains information about a contact; a person who is the contact of a site or laboratory. table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Carbon Dioxide

(co2). A measure of an amount or concentration of carbon dioxide. *Part Type*: measurements *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: miscMeas *Class*: gas *Nomenclature*: gas *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: dissGasUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Chemical Oxygen Demand

(cod). Chemical oxygen demand. *Part Type*: measurements *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: waterQualityGrp *Class*: standardConc *Nomenclature*: standard-Conc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Time from collection to storage

(col2Frdg). The amount of time between sample collection and the samples placement in stable storage/refrigeration. *Part Type*: measurements *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: procGrp *Class*: time *Nomenclature*: time *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: timeUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA

Parts

Data Type: integer *Missingness Set:* genMissingnessSet *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Colistin Anti-microbial resistance group

(colAMRGrp). The group for measures and methods pertaining to colistin-related anti-microbial resistance. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colAMRGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 50 *Part Status:* active. First released: active. Last updated: 2.1.0.

Collection group

(colGrp). A group of measurement-like attributes related to sample collection. *Part Type:* groups *Domain:* allDo *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Colistin resistance

(colis). Colistin-resistant bacteria. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* amrGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA

Parts

Category Set ID: NA *Unit Set:* bacteriaUnitSet *Aggregation Scale:* see-UnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.0.

Collection date time

(collDT). For grab samples this is the date, time and timezone the sample was taken. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* datetime *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Collection date time end

(collDTEnd). For integrated time average samples this is the date, time and timezone the sample was finished being taken. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* datetime *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Collection date time start

(collDTStart). For integrated time averaged samples this is the date, time and timezone the sample was started being taken. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* datetime *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample collection set

(collectSet). Methods for collection samples. Sample collection methods include water, air, and surface. See the attribute ‘Compartment set’ of the sample collection method. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* collectSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Collection number

(collNum). The number of subsamples that were combined to create the sample. Use NA for continuous, proportional or passive sampling. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:*

naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: integer Missingness Set: genMissingnessSet Minimum Value: 1 Maximum Value: NA Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.

Collection period and number

(collNumPer). Composite collection number.period. This a composite measure that combines ‘collection period’ (collPer) and ‘collection number’ (collNum). Collection number and period can be used to reduce the number of table headings during data collection. In data storage, ‘collNum’ and ‘collPeriod’ should be transformed to ‘collPer’ and ‘collNum’. For Grab sample, Surface swab, or Area proportional sample just enter 1

In case of Composite, Flow-proportional collection, the number of subsamples followed by a dot, followed by the period of the sampling, in hours. For example, for 4 composite subsamples covering a 8 hours period, the entry would be 4.2 For time-proportional 24 subsamples collected every hour, the entry would be 24.1 For volume-proportional, the entry for 24 subsamples collected over 24 hours should be 24.24, in this case the period part of the entry should be understood as the total collection time instead of the periodicity of the collection.

For a COSCA ball or Moore swab collecting for 24 hours, the entry would be 1.24 *Part Type: attributes Domain: naDomain Speciment ID: saSpecimenSet Compartment Set: naCompartmentSet Group: colGrp Class: na-Class Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 6 Part Status: active. First released: active. Last updated: 2.0.0.*

Parts

Collection period

(collPer). Collection period. The time period over which the sample was collected, in hours. Alternatively, use collectionStart and collectionEnd. Examples: 1 hour, 6 hours, 24 hours *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Sample collection type

(collType). The type of collection. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: collectSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 12 *Part Status*: active. First released: active. Last updated: 2.0.0.

Co-located sample

(collocated). Second or multiples samples collected at same location but different time (water, air) or at a nearby location (soil, sediment). Sent blind to laboratory. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA

Parts

Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Column name depreciated

(columnNameDep). Name for the column Deprecated in ODM version 2. Look-up tables are now incorporated into parts and sets. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Commercial facility - not specified

(commFacOth). Specifies a site type which is a commercial facility/worksheets that is not otherwise captured or described in the geotype set. *Part Type:* categories *Domain:* naDomain *Speciment ID:* siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Composite sample - archival

(comp). A composite sample, usually generated by an autosampler. This is intended for use in updating and mapping archival data into the newest

Parts

version of the ODM. Generally, autosamplers do time or flow-proportional sampling, and so those collection methods should be used instead. This is only for composite/autosampler samples where these additional details have not yet been specified. Use collectionPeriod to describe how many hours the sample was taken, and collectionNum to record the number of samples. *Part Type:* categories *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Composite grab sample of 3

(comp3). A grab-composite sample composed of 3 separate grab samples. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Composite grab sample of 3 deprecate

(comp3dep). A grab-composite sample composed of 3 separate grab samples. Deprecated in version 2, please do not use. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA

Parts

Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: depreciated. First released: depreciated. Last updated: 2.0.0.

Composite 3hr grab sample

(comp3h). A 3-hour composite with 3 grab samples each taken once per hour, generally manually performed. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status: depreciated.* First released: depreciated. Last updated: 2.0.0.

Composite 3hr grab sample deprecate

(comp3hdep). A 3-hour composite with 3 grab samples each taken once per hour, generally manually performed. Deprecated in version 2, please do not use. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status: depreciated.* First released: depreciated. Last updated: 2.0.0.

Composite 8hr grab sample depreciated

(comp8h). An 8-hour composite with 8 grab samples each taken once per hour, generally manually performed. Deprecated in version 2, please

Parts

do not use. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Composite 8hr grab sample deprecated

(comp8hDep). A 8-hour composite with 8 grab samples each taken once per hour, generally manually performed. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Compartment

(compartment). The attribute identifying the substance from which where a sample was taken. For more information, see partID = compartment. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Compartment input (wide table)

(compartmentInput). The partID for the compartment being used in a wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Compartment name (wide table)

(compartmentName). The compartment referenced for the wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Compartments

(compartments). The substance from which a sample was taken. For example, wastewater has component of “water”. Compartments are attributes of measures, methods, units, and aggregations. *Part Type*: partType *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*:

Parts

NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Compartment Set Header

(compartmentSet). An identification of a set of compartments that can be applied for a measure or method. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Compartment sets

(compartmentSets). Sets of compartments. Compartment sets are used to identify when a measure can be recorded for more than one compartment. For example, SARS-CoV-2 can be measured in people (humans), water, surface, or air. *Part Type*: partType *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Composting toilet

(compToi). A self-contained toilet system wherein human waste is designed to be composted. Usually with the addition of secondary materials, like sawdust. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Concentration measure

(conc). Measurement of concentration (generalized) - designed for describing protocols. *Part Type*: measurements *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: mis-cMeas *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Is concurrent to

(concurrent). Specifies that the object step or protocol occurs at the same time as the subject step or protocol in the overall protocol container. Use only for protocolRelationships table relationshipID. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample volume after concentration

(concVol). The total volume of a sample after the concentration step. *Part Type:* measurements *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* volumeUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* genMissingnessSet *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Water conductivity

(cond). Measurement of conductivity of sample or site. *Part Type:* measurements *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* siteFeat *Class:* conductivity *Nomenclature:* conductivity *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* conductivityUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Conductivity class

(conductivity). Measures and methods related to conductivity. *Part Type:* classes *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* conductivity *Nomenclature:* conductivity *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* conductivityUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Conductivity unit set

(conductivityUnitSet). Unit set related to conductivity measurements. *Part Type:* unitSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* conductivityUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Cone-shaped sampling

(cone). Instrument type is a grab sample that has a controlled valve that opens to take a sample from a specific depth, then closes to bring the sample out. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Number of confirmed cases

(conf). Number of confirmed cases. *Part Type:* units *Domain:* bio *Specimen ID:* poSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Number of confirmed cases by episode date

(confEp). Number of confirmed cases of a given disease, totaled by episode date. Episode date is the earliest of onset, test or reported date for a confirmed case. *Part Type:* units *Domain:* bio *Specimen ID:* poSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Number of confirmed Cases Onset date

(confOn). Number of confirmed cases of a given disease, totaled by onset date. Onset date is the earliest date that symptoms were reported for a confirmed case. This data is often not known and reported. In lieu, episode is used. *Part Type:* units *Domain:* bio *Specimen ID:* poSpecimenSet

Parts

Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA
Reference Link: NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Number of confirmed cases by report date

(confRep). Number of confirmed cases of a given disease, totaled by report date. Report date is the date that the numbers were reported publicly for a confirmed case. *Part Type:* units *Domain:* bio *Speciment ID:* poSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Number of confirmed cases test date

(confTest). Number of confirmed cases of a given disease, totaled by test date. Test date is the date that the covid-19 test was performed for a confirmed case. *Part Type:* units *Domain:* bio *Speciment ID:* poSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Contact ID

(contactID). A unique identifier for a given contact person. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Contact name

(contactName). Contact person or group, for the lab. Deprecated in ODM version 2. see ‘name’ *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 100 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Contact table

(contacts). The table that contains information about a contact; a person who is the contact of a site or laboratory. adapt from verson 1 documentation *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: programDescr *Nomenclature*: programDescr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*:

Parts

NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Contacts table column order

(contactsOrder). Specifies the order of the columns in a Contacts table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Contact table required headers

(contactsRequired). Specifies the columns required in a Contacts table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Contact table set

(contactTableSet). Tables are where measures, methods and attributes are recorded. Tables represent the main entities of the environmental surveillance. *Part Type*: dictSets *Domain*: naDomain *Speciment ID*: saSpec-

Parts

imenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Contact phone

(coPhone). Contact phone number, for the lab. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 10 *Maximum Length*: 12 *Part Status*: active. First released: active. Last updated: 2.0.0.

Core sampling

(core). Intrument type is a grab sampler that captures a vertical section of the substrate matrix of fecal sludge. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Correctional facility

(corFcil). Correctional facility *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

COSCa ball

(cosca). COSCa passive sampling device. Use collectionPeriod to describe how many hours the ball was used to collect the sample *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://pubs.rsc.org/en/content/articlelanding/2021/ew/d1ew00207d> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Countries look-up tables

(countries). Look up table for the possible country inputs. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: lookup *Nomenclature*: lookup *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA

Parts

Minimum Length: 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.0.

Countries table column order

(countriesOrder). Specifies the order of the columns in the countries table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.1.0.

Countries table required headers

(countriesRequired). Required headers in the countries table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.0.

Country

(country). The country where a site or organization is located; part of the address. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA

Reference Link: NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Country endonym

(countryEndonym). The name locals use for their country. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 75 *Part Status:* active. First released: active. Last updated: 2.1.0.

Country exonym

(countryExonym). The English name foreigners use for the country. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 75 *Part Status:* active. First released: active. Last updated: 2.1.0.

Parts

Countries or sovereign states

(countryLevel). Countries or sovereign states *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: nrNAMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.1.0.

Districts, counties, regions

(countyLevel). Districts, counties, regions *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: nrNAMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.1.0.

Covid-19

(cov). Covid-19 infection. Any form of Covid-19 human infetion - including testing for Covid-19, symptomatic Covid-19, asymptomatic Covid-19, hospitalized Covid-19, long-Covid-19, etc. If needed, define the specific form Covid-19 with units. See populationUnits. *Part Type*: measurements *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: humanCompartmentSet *Group*: sarsCov2 *Class*: disease *Nomenclature*: disease *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: populationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA

Parts

Data Type: varchar *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2 measure

(cov2Me). Measure the amount of SARS-CoV-2 virus. This measure should only be used if there is no other SARS-CoV-2 measure. See groupID = sarsCov2. Use a note to describe the specific measure used. *Part Type:* measurements *Domain:* bio *Speciment ID:* anySpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2-B.1.1.7

(covB117). Variant B.1.1.7 of the SARS-CoV-2 virus. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* variant *Nomenclature:* variant *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

SARS-CoV-2-B.1.351

(covB135). Variant B.1.351 of the SARS-CoV-2 virus. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

SARS-CoV-2-E

(covE). SARS-CoV-2 E gene. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

SARS-CoV-2-N1

(covN1). SARS-CoV-2 nucleocapsid gene, allele 1. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA

Parts

Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2-N2

(covN2). SARS-CoV-2 nucleocapsid gene, allele 2. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentsSet *Group:* sarsCov2 *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2-N200

(covN200). SARS-CoV-2 nucleocapsid gene, amino acids 199-202. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentsSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2-N3

(covN3). SARS-CoV-2 nucleocapsid gene, allele 3. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentsSet *Group:* sarsCov2 *Class:* allele *Nomenclature:* allele *On-*

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2-P.1

(covP1). Variant P.1 of the SARS-CoV-2 virus. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* variant *Nomenclature:* variant *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2-RdRp

(covRdrp). SARS-CoV-2 RdRp gene. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2 S Gene Target

(covS). S sars-cov-2 gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.3.

Clostridium perfringens

(cPerfrigens). Clostridium perfringens *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: clostridiumGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Covid-19 population measurement date

(cphDate). date of reporting for covid-19 measure. Depreciated in ODM version 2. The measure identification is now measureReportID with report dates as for any measure report. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation*

Parts

Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Cphd ID

(cphid). Unique identifier for the table. Deprecated in ODM version 2. The measure identification is now measureReportID. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

crAssphage-N

(cra). crAssphage virus capsid protein gene region *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* phageGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Creatinine

(crea). Creatinine (usually measured as a human fecal chemical indicator) *Part Type*: measurements *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Crosswalk table set

(crosswalkTableSet). Tables used to translate to and from other environmental dictionaries and models. *Part Type*: dictSets *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Cryptosporidium

(cryptosporidium). Cryptosporidium *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: cryptosporidiumGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum*

Parts

Value: seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA
Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Cryptosporidium Group

(cryptosporidiumGrp). A group of measures/methods related to cryptosporidium parasites. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* cryptosporidium-Grp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Cycle threshold or quantification cycle (Ct or Cq)

(ct). Cycle thresholds in a PCR assay. *Part Type:* units *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* standardCurve *Nomenclature:* standardCurve *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Countries look-up tables Shorthand

(cu). The abbreviated short name used to reference the Look up table for the possible country inputs. table *Part Type:* shortName *Domain:*

Parts

naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Cumulative count

(cuCo). The cumulative count of cases of a given disease. Aggregation for a population or disease measure to explain population-level clinical effects. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Custody Contact ID

(custodyCont). A unique identifier for data custodians. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Data custodian ID

(custodyID). The data custodian of a database. Use Organization ID to populate this field, and the organizations table to describe contact information and other details for the data custodian. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Circulating vaccine-derived poliovirus type 2

(cVDPV2). Circulating vaccine-derived poliovirus type 2 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: polioGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Number of cycles

(cyNum). The number of cycles of a PCR machine, or any other cycling process. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: quantAggScale *Quality Set*:

Parts

NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

D339H Mutation

(d339h). The FLiT/SLip variant mutation D339H. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flirtSLipGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

d377y delta-variant gene target

(d377y). d377y delta-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

d3g omicron-variant gene target

(d3g). d3g omicron-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

d63g delta-variant gene target

(d63g). d63g delta-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

d796y omicron-variant gene target

(d796y). d796y omicron-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet

Parts

Minimum Value: seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

d950n delta-variant gene target

(d950n). d950n delta-variant gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Daily count

(daiCo). The daily count of cases of a given disease. Aggregation for a population or disease measure to explain population-level clinical effects. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Data collection sector or organization

(dataColl). Describes organization who collect compile, analyze, and or manage data as their central focus. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Dataset creation date

(datasetDate). Specifies the date a given dataset was created. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* datetime *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Dataset ID

(datasetID). The name of the dataset that stores information for MeasureReport, SampleReport and other reporting tables. Where possible, datasetID name should correspond the original data custodian responsible for generating environmental data. (suggestion for a default name convention.) *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category*

Parts

Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA
Reference Link: NA *Data Type:* varchar *Missingness Set:* genMissingnessSet
Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0
Maximum Length: 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Dataset table

(datasets). A report table for capturing details about data's parental data set and data custodians. Supplying attribution for data collectors.
Part Type: tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* programDescr *Nomenclature:* programDescr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Datasets table column order

(datasetsOrder). Specifies the order of the columns in a Datasets table.
Part Type: tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Dataset table required headers

(datasetsRequired). Specifies the columns required in a Datasets table.
Part Type: tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Data types

(dataTypes). The data type for a part. Data types used in the ODM include: varchar, boolean, float, category, date, time, datetime, url, email. dataType corresponds to the entry or cell within a data table, most commonly within a report table. If the data entry has a unit, then the dataType corresponds to the unit and the dataType refers to ‘unit’. If the data entry is a category, then the dataType refers to ‘category’. All categories are varchar. Otherwise the dataType is identified within the part entry. TBA: dataType for dictionary. *Part Type:* partType *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 12 *Part Status:* active. First released: active. Last updated: 2.0.0.

Date

(date). Date date on which the assayMethod was created or updated (for version update). *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: datetime *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: deprecated. Last updated: 2.0.0.

Datetime data type

(datetime). The data type for date and time data. Only used for the dictionary entries of parts. *Part Type*: dataTypes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Days

(days). A unit for indicating a length of time in days. *Part Type*: units *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: time *Nomenclature*: time *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: timeUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*:

Parts

NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active.
First released: active. Last updated: 2.0.0.

ddcov_e sars-cov-2 gene target

(ddcovE). ddcov_e sars-cov-2 gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

ddcov_n sars-cov-2 gene target

(ddcovN). ddcov_n sars-cov-2 gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Digital Droplet PCR (ddPCR)

(ddpcr). Describes a PCR analysis done using digital droplet PCR technology (general). *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*:

Parts

pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Deaths

(death). Units for describing a population measure of patients who have died from a given cause. Unit for a population or disease measure to explain population-level clinical effects. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Omicron Variant 142-144 Deletion

(del142144). Omicron Variant 142-144 Deletion *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

del143/145

(del143). 143 or 145 deletion omicron-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Delta Variant 156-157 Deletion

(del156157). Delta Variant 156-157 Deletion *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: deltaGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

del 157/158

(del157). 157 or 158 deletion delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*:

Parts

NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

del2084/2084

(del2084). 2084 or 2084 deletion omicron-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

del212/212

(del212). 212 or 212 deletion omicron-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Omicron Variant 142-14431-33 Deletion

(del3133). Omicron Variant 142-14431-33 Deletion *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

del3674/3676

(del3674). 3674 or 3676 deletion omicron-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

del69/70

(del6970). 69 or 70 deletion omicron-variant gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingness-

Parts

Set *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Delayed Arrival or Prolonged Transit

(delayArriv). A substantial delay (ie. of more than 14 days) between sample collection and the start of analysis. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Delta

(delta). B.1.617.2 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

SARS-CoV-2 Delta Variant Group

(deltaGrp). A group of measures/methods related to the SARS-CoV-2 Delta Variant. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*:

Parts

deltaGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: http://purl.obolibrary.org/obo/NCIT_C169076 *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Dengue Virus Type 1

(den1). Dengue virus, Type 1, general measurement *Part Type*: measurements *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flavivirusGrp *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.3.

Dengue Virus Type 2

(den2). Dengue virus, Type 2, general measurement *Part Type*: measurements *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flavivirusGrp *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.3.

Dengue Virus Type 3

(den3). Dengue virus, Type 3, general measurement *Part Type*: measurements *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flavivirusGrp *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.3.

Dengue Virus Type 4

(den4). Dengue virus, Type 4, general measurement *Part Type*: measurements *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flavivirusGrp *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.3.

denaturation

(denat). Describes the denaturation cycle in a PCR process. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: na-Class *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA

Parts

Minimum Length: 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Dengue

(dengue). Dengue *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* flavivirus-Grp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Deprecated

(deprecated). Indicator to say that a part is no longer in current use in the model. See partID = status *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Derived sample

(derived). A sample that is derived or made from another sample or material. A derived sample is a type of sample created by mixing material obtained from a field sample (e.g., wastewater, soil, or air) with additional

additives in a laboratory setting. This process can involve diluting the original field sample with clean water or other solutions, as needed. Derived samples are typically used to adjust the concentration of the target substance or organism, making it more suitable for analysis or to test the efficiency and sensitivity of detection methods. In the example given, a derived sample might be a sub-sample of wastewater that is diluted with clean water to achieve a specific concentration, allowing for more accurate and reliable analysis. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Description

(descr). A detailed description of a measure, method, or attribute. A description of the part that serves a clear presentation of the part to a wide audience including technical and non technical staff. A description should allow any person who generates environment surveillance data to know how to identify how to record their data elements in the ODM. partReference can be used to further describe a part. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 200 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Description of change

(descrChange). A description of change in a part from the previous version. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Desk or counter

(desk). Desk, table, countertop or other flat working surface. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: surfaceCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Dewatered solids

(deso). Dewatered solids. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Detected

(det). Substance detected or not detected. TRUE = detected, FALSE = not detected *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: booleanSet *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: boolean *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 1 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Access to details deprecated

(detailsDep). More details on the existing confidentiality requirements of this measurement. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: booleanSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: boolean *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 1 *Part Status*: **deprecated**. First released: deprecated. Last updated: 2.0.0.

Development

(development). Indicator that a part is under development use. See par-tID = status *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Dictionary reference table set

(dictionaryRefTableSet). Reference or look-up tables. For example, the parts table describe all elements of the ODM, including tables, table headers, measures, methods, categories, and units. sets are collections of parts. For example, units can be grouped together in a unitSet. languages and translations support translations. *Part Type:* dictSets *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Additional dictionary sheets

(dictionarySupport). Additional sheets for the Excel version of the ODM dictionary. Sheets or tabs for the ODM Excel dictionary include: all ERD tables (look-up tables and data entry tables) and additional supporting tables. *Part Type:* partType *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Dictionary set type

(dictSets). Sets used to describe and group dictionary tables. *Part Type*: partType *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Dilution factor

(dilFact). Specifies the extent to which a sample or aliquot was diluted prior to analysis. Dilution factor is reported as a unitless measure, where a value of 10 indicates a 10:1 dilution. *Part Type*: measurements *Domain*: allDo *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: dilution *Nomenclature*: dilution *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Point dillutions

(dillute). Exact concentration or dillutions for generating a standard curve. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: dilution *Nomenclature*: dilution *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*:

Parts

NA Reference Link: NA Data Type: float Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Dilution Class

(dilution). Measures and methods relating to dilutions. Part Type: classes Domain: phy Speciment ID: siSaSpecimenSet Compartment Set: anyCompartmentSet Group: naGroup Class: dilution Nomenclature: dilution Ontology Reference: NA Category Set ID: NA Unit Set: unitlessUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Diphtheria Group

(diphteriaGrp). A group of measures/methods related to the diphteria bacteria. Used to describe the organism information for general measures. Part Type: groups Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: diphteriaGrp Class: organism Nomenclature: organism Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.

Diseases (human) class

(disease). Measure and methods related to disease or infection in humans. *Part Type*: classes *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: humanCompartmentSet *Group*: naGroup *Class*: disease *Nomenclature*: disease *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: populationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Dissolved gas concentration unit set

(dissGasUnitSet). Unit set for carbon dioxide concentrations measurements in water or air. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: airWaterCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: dissGasUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

DNA Template

(dna). Deoxyribonucleic Acid (DNA) template is used for PCR or sequencing work. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*:

Parts

NA Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Dengue Virus E Gene

(dnvE). Dengue Type 2-specific gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* flavivirusGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.3.

Dengue Virus NS5 Gene

(dnvNS5). Dengue Type 1-specific gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* flavivirusGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.3.

Dengue Virus prM Gene

(dnvprM). Dengue Type 3 and 4-specific gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:*

anyCompartmentSet *Group*: flavivirusGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.3.

Depth of coverage

(doc). The sequencing read depth. Used to interpret the confidence in a presence or amount of a variant. *Part Type*: units *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 100 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Domain

(domain). Domain is the highest level of describing of a measure. The domain ID that corresponds to a given part. Mostly applicable for measures, methods, units, and aggregations. *Part Type*: attributes *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Domains

(domains). There are three domain types: biologic (i.e. Covid-19, chemical (i.e. nitrogen), physical measure (temperature). *Part Type*: partType
Domain: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass
Ontology Reference: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical
Missingness Set: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Higher education dormitory or residential building

(dorm). Higher education dormitory or residential building *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass
Ontology Reference: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar
Missingness Set: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Digital PCR (dPCR)

(dpcr). Describes a PCR analysis done using digital PCR technology (general). *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Sewer (drain)

(drain). A pipe that carries water or sewage away from a place, or an opening in a surface that leads to said pipe. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Dataset table Shorthand

(ds). The abbreviated short name used to reference the A report table for capturing details about data's parental data set and data custodians. Supplying attribution for data collectors. table *Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Parts

Duration time of a method

(duration). The duration of time for a given method as described in protocols. *Part Type*: measurements *Domain*: naDomain *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: time *Nomenclature*: time *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: timeUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

e156g delta-variant gene target

(e156g). e156g delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

e484a omicron-variant gene target

(e484a). e484a omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum*

Parts

Value: seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA
Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Enteropathogenic Escherichia coli (EAEC)

(eaec). Enteropathogenic Escherichia coli (EAEC) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* ecoliGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Epstein-Barr virus (EBV)

(ebv). Epstein-Barr virus (EBV), formerly known as Human gammaherpesvirus 4 *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* herpesGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Educational Community License v2.0

(ecl20). The licensing for the measure or data set is managed under the Educational Community License v2.0. *Part Type:* categories

Parts

Domain: naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/ecl-2.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Escherichia coli

(ecoli). Concentration of bacteria that are passed through the faecal excrement of humans, livestock and wildlife *Part Type:* measurements *Domain:* bio *Speciment ID:* siSaSpecimenSet *Compartment Set:* surfaceWaterCompartmentSet *Group:* ecoliGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* bacteriaUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Escherichia coli group

(ecoliGrp). A group of measures/methods related to Escherichia coli bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* ecoliGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Education

(education). A measure or sample taken for education or training. Use this purpose, for example, when teaching how to use the PHES-ODM.
Part Type: categories *Domain:* naDomain *Specimen ID:* naSpecimenSet
Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA
Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Efficiency

(efficient). The efficiency reported for a standard curve. *Part Type:* units *Domain:* bio *Specimen ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* naGroup *Class:* standardCurve *Nomenclature:* standardCurve *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Wastewater Effluent - non-specified

(effluNS). Sample material is wastewater effluent - whether primary, secondary or other is unspecified. *Part Type:* categories *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet

Parts

Group: colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Enterohemorrhagic Escherichia coli (EHEC)

(ehec). Enterohemorrhagic Escherichia coli (EHEC) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* ecoliGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Enteroinvasive Escherichia coli (EIEC)

(eiec). Enteroinvasive Escherichia coli (EIEC) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* ecoliGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Eluate/Resuspended filter material retained

(eluate). The eluate fraction, or material resuspended from filtration, is retained after solid separation/centrifugation. *Part Type*: categories *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standard-Conc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Elution buffer

(elutionBuff). Elution buffer is used to resuspend material. *Part Type*: categories *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Contact email

(email). Contact e-mail address, for the lab. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: na-CompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*:

Parts

varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 100 Part Status: active. First released: active. Last updated: 2.0.0.

European Nucleotide Association

(enaMap). ENA header *Part Type*: attributes *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

European Nucleotide Association (ENA) - notes

(enaNotes). ENA notes *Part Type*: attributes *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Enterovirus

(enterovirus). Enterovirus *Part Type*: measurements *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: enterovirusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation*

Parts

Scale: seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Enterovirus Group

(enterovirusGrp). A group of measures/methods related to enteroviruses. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* enterovirusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Enumeration for set values

(enumeration). The numeric value that corresponds to a given value in a set, defined in the sets table. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* genMissingnessSet *Minimum Value:* 0 *Maximum Value:* 100 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Rainfall

(envRnF). Rainfall, i.e. amount of precipitation in the form of rain. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat *Class*: precipitation *Nomenclature*: precipitation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: precipitationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Ground snow depth

(envSnwD). Total depth of snow on the ground. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat *Class*: precipitation *Nomenclature*: precipitation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: precipitationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Snowfall

(envSnwF). Snowfall, i.e. amount of precipitation in the form of snow. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat *Class*: precipitation *Nomenclature*: precipitation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: precipitationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*:

Parts

genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Enteropathogenic Escherichia coli (EPEC)

(epec). Enteropathogenic Escherichia coli (EPEC) *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: ecoliGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Episode date

(epiDate). Episode date is the earliest of onset, test or reported date. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Eclipse Public License 1.0

(epl10). The licensing for the measure or data set is managed under the Eclipse Public License 1.0. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet

Parts

Group: naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/epl-1.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Eclipse Public License 2.0

(epl20). The licensing for the measure or data set is managed under the Eclipse Public License 2.0. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/epl-2.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

ERD table set

(erdTableSet). All tables listed in the Entity Relationship Diagram. The full ODM model is commonly referred to as “long” tables as it stores data with one measurement per row. *Part Type:* dictSets *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sarbecovirus-specific E sars-cov-2 gene target

(eSarbec). Sarbecovirus-specific E sars-cov-2 gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

ESBL-encoding genes

(esbl). Extended-spectrum beta-lactamase-encoding genes. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: amrGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: bacteriaUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

exclusions based sample preparation (ESP)

(esp). exclusions based sample preparation (ESP) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Estimated frequency of reads

(estFreqReads). Estimated frequency of reads in a sequencing assay *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* sequence *Nomenclature:* sequence *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Estuary, natural water body

(estuary). Estuary, natural water body *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Enterotoxigenic Escherichia coli (ETEC)

(etec). Enterotoxigenic Escherichia coli (ETEC) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* ecoliGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnit-

Parts

Set *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

European Union Public License 1.1

(eupl11). The licensing for the measure or data set is managed under the European Union Public License 1.1. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/eupl-1.1/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

European Union Public License 1.2

(eupl12). The licensing for the measure or data set is managed under the European Union Public License 1.2. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/eupl-1.2/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Exception Part Type

(exceptions). An exception part type for use in creating wide names that do not follow the general structure. *Part Type*: partType *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Extraintestinal pathogenic Escherichia coli (ExPEC)

(expec). Extraintestinal pathogenic Escherichia coli (ExPEC) *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: ecoliGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Experiment Failed

(expFail). PCR experiment failed. No value reported. Value should be blank for a measure with this qualityFlag value. *Part Type*: qualityIndicators *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar

Parts

Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Extraction Blank - Control

(extBlank). Binary Y/N indicator for if extraction blank was used as a control for the nucleic acid extraction process. *Part Type:* methods *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* qualAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

4s method

(extract4s). Nucleic acid extraction performed using the 4s method. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://www.protocols.io/view/v-4-direct-wastewater-rna-capture-and-purification-bpdfmi3n> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Nucleic acid extraction method

(extraction). Description of the nucleic acid extraction method. Description of the method used to extract the sample *Part Type:* methods *Do-*

Parts

main: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: extractSet *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 100 *Part Status*: active. First released: active. Last updated: 2.0.0.

Nucleic Acid Extraction set

(extractSet). set used for storing all the valid category values for the nucleic acid extraction method. *Part Type*: mmaSets *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: extractSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Extraction volume of sample

(exvol). Extraction volume of sample. Size of the sample that is analyzed. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: physical *Nomenclature*: physical *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: volumeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

F456L Mutation

(f456l). The FLiRT/SLip variant mutation F456L. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flirtSLipGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Fecal matter

(faeces). Fecal matter. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

FALSE

(FALSE). Boolean data type = FALSE Use these values and their set for any boolean measure or attribute. Use only “FALSE” (case sensitive) *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: boolean *Missingness Set*: NA *Minimum Value*:

Parts

NA Maximum Value: NA Minimum Length: 5 Maximum Length: 5 Part Status: active. First released: active. Last updated: 2.0.0.

Male-specific (F+) coliphage - general

(fColiphage). Male-specific (F+) coliphage - general *Part Type: measurements Domain: bio Speciment ID: poSaSpecimenSet Compartment Set: anyCompartmentSet Group: phageGrp Class: organism Nomenclature: organism Ontology Reference: NA Category Set ID: NA Unit Set: geneticUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: seeUnitData Missingness Set: genMissingnessSet Minimum Value: seeUnitVal Maximum Value: seeUnitVal Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.2.3.*

F+ DNA coliphage

(fDNA). F+ DNA coliphage *Part Type: measurements Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: phageGrp Class: allele Nomenclature: allele Ontology Reference: NA Category Set ID: NA Unit Set: geneticUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: seeUnitData Missingness Set: genMissingnessSet Minimum Value: seeUnitVal Maximum Value: seeUnitVal Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.2.0.*

Field sample

(field). Specifies a sample taken from the field; directly collected from an area for testing. *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category*

Parts

Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Field sample replicate

(fieldReplicate). A sample divided into two or more homogeneous parts. *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

File location of polygon

(fileLocation). The location of the file containing the geometry of the polygon. File path specified, or a URL *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: blob Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 65535 Part Status: active. First released: active. Last updated: 2.0.0.*

Filtration

(filt). Describes solid separation from a wastewater sample via filtration. Proceeds further concentration or analysis of the liquid filtrate. *Part Type:*

Parts

categories *Domain*: allDo *Speciment ID*: saSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

First Nation

(fiNa). Used to categorize a sampleshed that is a First Nation, or on reserve lands. Likely for internal use only, Indigenous data can and should not be shared without explicit consent of the nation in question. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 10 *Part Status*: active. First released: active. Last updated: 2.0.0.

Final volume

(finVol). The final volume of a testing solution or sample. *Part Type*: measurements *Domain*: che *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

First name of contact

(firstName). Specifies the first name of a given contact. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

First released version

(firstReleased). The version in which a part was first released *Part Type*: partSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Foreign key

(fK). Foreign key for a table. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

AI - Inhibition present but addressed

(flagAI). The original sample was inhibited; however, the inhibition has been addressed through dilution. The reported concentration estimate is the updated result after addressing inhibition. *Part Type*: qualityIndicators *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

B - Trace levels of contamination

(flagB). Analytical result may be subject to „trace“ levels of contamination; the target analyte was also detected in negative controls on the same run as the sample. *Part Type*: qualityIndicators *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

FI - Inhibition present and unaddressed

(flagFI). The original sample was inhibited; however, the inhibition has not been successfully addressed. Therefore, no concentration estimate has been reported. *Part Type*: qualityIndicators *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup

Class: naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

J - Weak signal extrapolation

(flagJ). Analytical result falls below the lowest concentration of the experiment-specific standard curve but above the y-intercept value; the reported value is based on the extrapolation of the standard curve in the non-linear region. *Part Type:* qualityIndicators *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

ND - Non-detect

(flagND). No amplification occurred in the reaction; non-detect. For the value of a non-detected measure, report the actual value even if it is below the limit of detection. The flag here ensures that it's recorded as a non-detect regardless. In instances where the original data doesn't record a value, but only has the flag, please populate the value field with either a 0 if dealing with variant percentages, and a 1 for all other purposes to further indicate a null result. *Part Type:* qualityIndicators *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation*

Parts

Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

UJ - Trace signal extrapolation

(flagUJ). Observed quantitation cycle is greater than the experiment-specific standard curve intercept value but evidence of clear amplification was present (i.e., ‐trace, signal observed); the reported value is based on the extrapolation of the standard curve in the non-linear region. *Part Type:* qualityIndicators *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

UQ - Unquantifiable

(flagUQ). Unquantifiable, Ct value exceeds the maximum value of the standard curve. There was a detect, but we cannot quantify it with certainty. *Part Type:* qualityIndicators *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Flavivirus (West Nile, Dengue, Zika) Group

(flavivirusGrp). A group of measures/methods related to flaviviruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flavivirusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

FLiRT/SLip Variant Group

(flirtSLipGrp). The group for measures and methods pertaining to the FLiRT and SLip variants of SARS-CoV-2. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

FLiRT Variants

(flirtV). FLiRT is the name given to an entire family of COVID-19 sub-variants that are gaining dominance. They've evolved from the JN.1 sub-variant. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality*

Parts

Set: NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Float data type

(float). The data type for float data. Only used for the dictionary entries of parts. *Part Type:* dataTypes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Flow-normalized mean

(floMean). Mean measure normalized to wastewater flow. Mostly used for reporting specific alleles (N1, N2, E, etc.) *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Floor

(floor). Floor of a building or room. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* surfaceCompartmentSet

Parts

mentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Flow rate

(floRate). Wastewater volumetric flow rate at the sample collection location over the 24-hr period during which the sample was collected. If only an instantaneous flow measurement is available, it may be reported in units of million gallons per day. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: siteFeat *Class*: flow *Nomenclature*: flow *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: flowUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Flow class

(flow). Measures and methods related to flow. *Part Type*: classes *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: naGroup *Class*: flow *Nomenclature*: flow *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: flowUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Flow proportional 24hr sample depreciated

(flow24hDep). A flow proportional 24-hour composite sample generally collected by an autosampler. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Flow proportional sample

(flowPr). A flow proportional composite sample generally collected by an autosampler. Use collectionPeriod to describe how many hours the sample was taken. The volume of wastewater taken is proportional to the flow rate flowing at each instant of sampling. This is also called constant time, variable volume (CTVV). *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Volume flow rate unit set

(flowUnitSet). Unit set for volume flow measurements. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*:

Parts

waterCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: na-
Class *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: flowUnitSet
Aggregation Scale: quantAggScale *Quality Set*: NA *Reference Link*: NA
Data Type: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Flow volume

(flowVol). Volume of influent. *Part Type*: measurements *Domain*: phy
Speciment ID: siSpecimenSet *Compartment Set*: waterCompartmentSet
Group: siteFeat *Class*: flow *Nomenclature*: flow *Ontology Reference*: NA
Category Set ID: NA *Unit Set*: flowUnitSet *Aggregation Scale*: seeUnitAggScale
Quality Set: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Influenza virus measure

(flu). General influenza virus measure This measure should only be used if there is no other influenza virus measure. See groupID = virusMisc. Use a note to describe the specific measure used. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: http://purl.obolibrary.org/obo/MONDO_0005812 *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Influenza A virus

(fluA). Influenza A virus. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluAGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

Influenza virus A1

(fluA1). Influenza virus A1 type *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluAGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Influenza virus A1 and A2 combined

(fluA1A2c). Measure of influenza virus A1 and A2 combined, usually due to single fluorescence channel. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluAGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*:

Parts

seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

influenza virus A2

(fluA2). influenza virus A2 type *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluAGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Influenza A Virus Group

(fluAGrp). A group of measures/methods related to Influenza A viruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluAGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Influenza virus B

(fluB). Influenza virus B type *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluBGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Influenza B Virus Group

(fluBGrp). A group of measures/methods related to Influenza B viruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluBGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Influenza Virus General Group

(fluGrp). A group of measures/methods related to general influenza viruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Influenza A H5 hemagglutinin gene

(fluH5hema). Measure of the H5 hemagglutinin gene from the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* fluA-Grp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.3.

Influenza A M gene

(fluIAVm). A measure of the M gene found in Influenza A viruses (IAV). The virus has segmented RNA genome and 7th segment, M gene, encodes 2 proteins. M1 is a matrix protein and M2 is a membrane protein. The M gene may be involved in determining host tropism. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* fluAGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.3.

Parts

Fluidigm digital PCR

(fluiDpcr). Describes a PCR analysis done using FluidIGM's digital PCR technology. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Influenza A N1 neuraminidase gene

(fluN1neur). Measure of the N1 neuraminidase gene from the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. *Part Type*: measurements *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluA-Grp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.3.

Foggy

(foggy). Qualitative category for the weather measure, specifying a foggy or hazy day. *Part Type*: categories *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*:

Parts

NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Fraction analyzed

(fraction). Fraction of the sample that is analyzed. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: fractionSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Fraction input (wide table)

(fractionInput). The partID for the fraction being used in a wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Fraction name (wide table)

(fractionName). The fraction analyzed referenced for the wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference*

Parts

Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA
Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Sample fraction set

(fractionSet). set for the fraction of the sample (solid, liquid, etc.).
Part Type: mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet
Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* fractionSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA
Reference Link: NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Freyja Script

(freyja). Freyja Script for sequencing. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://github.com/andersen-lab/Freyja> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

F-Specific RNA bacteriophages

(fRNABact). A measure for amount of F-Specific RNA bacteriophages.
Part Type: measurements *Domain:* bio *Speciment ID:* saSpecimenSet
Compartment Set: anyCompartmentSet *Group:* phageGrp *Class:* allele

Parts

Nomenclature: allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

F+ RNA coliphage

(fRNAColi). F+ RNA coliphage *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* phageGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

F-Specific RNA bacteriophages, G2

(frnaG2). A measure for amount of G2 F-Specific RNA bacteriophages. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* phageGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Sample frozen

(frozen). Sample was frozen before analysis or processing *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Field sample temperature

(fst). Temperature that the sample is stored at while it is being sampled. This field is mainly relevant for composite samples which are either kept at ambient temperature or refrigerated while being sampled. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: temperature *Nomenclature*: temperature *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: temperatureUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Francisella tularensis

(fTularensis). Francisella tularensis *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: tularemiaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data*

Parts

Type: seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Full dictionary sheets set

(fullDictionarySheetSet). Worksheets in the full Excel dictionary. The full dictionary is ‘ODM_full-dictionary.xlsx’ *Part Type:* dictSets *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Funder contact ID

(funderCont). A unique identifier for a funder. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Funding agency ID

(funderID). The funding agency of the dataset. Use Organization ID to populate this field, and the organizations table to describe contact infor-

Parts

mation and other details for the funding agency. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

g215c delta-variant gene target

(g215c). g215c delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

g339d omicron-variant gene target

(g339d). g339d omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

g496s omicron-variant gene target

(g496s). g496s omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

g662s delta-variant gene target

(g662s). g662s delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Gamma

(gam). P.1 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*:

Parts

genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Gas class

(gas). Measures and methods relating to gas and gases. *Part Type*: classes *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: gas *Nomenclature*: gas *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: dissGasUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Gene copies

(gc). Gene or variant copies *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Gene copies per copy of crAssphage

(gcCrA). Gene or variant copies per copy of crAssphage. *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data*

Parts

Type: integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

gene copies per day per 100,000 people

(gcD100). The unit for measures reflecting the gene copies per day per 100,000 people in the population. *Part Type:* units *Domain:* bio *Specimen ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Gene copies per gram solids

(gCGS). Gene or variant copies per gram solids. *Part Type:* units *Domain:* bio *Specimen ID:* saSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Gene copies per L

(gcL). Gene or variant copies per litre. *Part Type:* units *Domain:* bio *Specimen ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA

Parts

Category Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Gene copies per mL

(gcMI). Gene or variant copies per millilitre of solution. *Part Type:* units *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Gene copies per PMMoV copy

(gcPpmov). Gene or variant copies per copy of PMMoV. *Part Type:* units *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Genetics unit set

(geneticUnitSet). Unit set for genetic-related measurements. *Part Type:* unitSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment*

Set: anyCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: geneticUnitSet Aggregation Scale: quantAggScale Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

General missingness set

(genMissingnessSet). The general set for missingness values. *Part Type: missingnessSets Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Generic quality flag set

(genQualitySet). A quality set to specify any generic quality concerns about a measure or sample. *Part Type: qualityIndSets Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: anyCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Parts

European Petroleum Survey Group Coordinates

(geoEPSG). The unique EPSG code specifying a given geospatial area.
Part Type: attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet
Compartment Set: naCompartmentSet *Group:* miscAttr *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Latitude

(geoLat). Geographical location, latitude in decimal coordinates, ie.: (45.424721) *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* miscAttr *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* -90 *Maximum Value:* 90 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Longitude

(geoLong). Geographical location, longitude in decimal coordinates, ie.: (-75.695000) *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* miscAttr *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* -180 *Maximum Value:* 180 *Minimum Length:* NA

Parts

Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Type of geography

(geoType). Type of geography that is represented by the polygon. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* geoTypeSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Geographic set

(geoTypeSet). set for different type of geographic components. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* geoTypeSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Well-known text

(geoWKT). Well-known text of the polygon *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation*

Parts

Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 63 *Part Status:* active. First released: active. Last updated: 2.0.0.

GNU Free Documentation License v1.3

(gfdl13). The licensing for the measure or data set is managed under the GNU Free Documentation License v1.3. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/gfdl-1.3/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Gram per cubic metre

(gm3). Density unit. Used for absolute humidity and other measures. *Part Type:* units *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:* airCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Geometric mean

(gmn). Geometric mean. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Gonococcus Group

(gonococcusGrp). A group of measures/methods related to gonococcus bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: gonococcusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Government agency

(govt). The category of organization type used for government agencies, programs, or crown-owned bodies. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum*

Parts

*Length: 0 Maximum Length: 10 Part Status: active. First released: active.
Last updated: 2.0.0.*

GNU General Public License v2.0

(gpl20). The licensing for the measure or data set is managed under the GNU General Public License v2.0. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/gpl-2.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

GNU General Public License v3.0

(gpl30). The licensing for the measure or data set is managed under the GNU General Public License v3.0. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/gpl-3.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Grams

(grams). A unit of mass or weight. *Part Type*: units *Domain*: phy *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Gravity settling

(graSet). Describes solid separation from a wastewater sample where the sample material is allowed to settle by gravity, and then separated. *Part Type*: categories *Domain*: allDo *Speciment ID*: saSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Grab sample

(grb). A single large representative grab sample. If the sample was collected over a series of hours or is a composite sammple, please use partID = comp *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*:

Parts

NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Gromstole 1.0 Script

(gromstole). Gromstole 1.0 Script for sequencing. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://github.com/PoonLab/gromstole> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Group

(group). Unique identifier for a group of measures. Mostly applicable for measures, methods, units, and aggregations. A collection of related measures. For example, SARS-CoV-2 is a group. Within the SARS-CoV-2 group, there are measure classes that include RNA alleles (N1, N2, E, etc.), mutations, (E484K0), an entire sequence, viral proteins, etc. Currently groups are used for measures only. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Groups

(groups). A collection of related measures. Used primary to group measurements and methods, this helps pare down the drop down list for a given measurement or *Part Type*: partType *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Influenza A H5 hemagglutinin gene

(h5hema). Measure of the H5 hemagglutinin gene from the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluAGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

H5N1 avian influenza A virus (IAV)

(h5n1). General measurement for the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluAGrp *Class*: organism *Nomenclature*:

Parts

organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Haemophilus Group

(haemophilusGrp). A group of measures/methods related to haemophilus bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: haemophilusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

See Header for Aggregation

(hAg). An indicator to show in a wide-name that aggregation information is located in a different column. Not a valid value for aggregation in the standard long-format. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

See Header for Compartment

(hCo). A indicator for wide-names that the compartment information is stored in a separate column. Not a valid value for compartment in the standard long-format. *Part Type*: compartments *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: wideCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.2.0.

Haemophilus ducreyi

(hDucreyi). Haemophilus ducreyi *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: haemophilusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Header

(header). Header for a table. Also known as a table variable or entiy relationship ‘attribute’. Header is the top row or the variable name in a table. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*:

Parts

NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Health administration or planning agency

(healthAdm). Health administrative or planning organization. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Health Region for a Site

(healthRegion). A free-text variable for listing the health region for a given site. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

Heat inactivated sars-cov-2 virus spike target

(heatInacSARS). Heat inactivated SARS-CoV-2 virus is used as the recovery efficiency control target. *Part Type*: categories *Domain*: bio *Speci-*

ment ID: saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Hepatitis A

(hepA). Hepatitis A *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* hepGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Hepatitis B

(hepB). Hepatitis B *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* hepGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Hepatitis C

(hepC). Hepatitis C *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hepGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Hepatitis E

(hepE). Hepatitis E *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hepGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

hep g armored rna

(hepGRna). Measure of the amount Hepatitis G Armored RNA. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hepGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*:

Parts

NA *Maximum Length*: NA *Part Status*: active. First released: active.
Last updated: 2.0.0.

hep g armored rna spike target

(hepGRnaMat). Hepatitis G armored RNA is used as the recovery efficiency control target. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Hepatitis Group

(hepGrp). A group of measures/methods related to hepatitis viruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hepGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Herpes Virus Group

(herpesGrp). A group of measures/methods related to herpes viruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment*

Parts

Set: anyCompartmentSet *Group:* herpesGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

HF183 Bacteroides 16S

(hf183). Human-Specific HF183 Bacteroides 16S rRNA *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* bacteroidesGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

See Header for Fraction Analyzed

(hFr). An indicator in wide-names to show that information on the fraction analyzed is found under a separate header. Not a valid value for fraction analyzed in the standard long-format. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

5-hydroxyindoleacetic acid (5-HIAA)

(hiaa5). A serotonin metabolite used for normalizing wastewater surveillance signal. Analysis of 5-HIAA is done in clinical settings to assess the possibility of carcinoid syndrome in patients, and used in wastewater analysis to estimate human population numbers. Studies have shown that 5-HIAA can be quantified in samples from WWTPs, and that measured quantities of this molecule have a positive correlation with the population calculated using hydrochemical parameters, and are also correlated well with the census population measures. *Part Type:* measurements *Domain:* che *Speciment ID:* siSaSpecimenSet *Compartment Set:* water-CompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* gen-MissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

High severity

(high). Indicates a very severe quality issue, likely meaning the data should not be reported. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Haemophilus influenzae

(hInfluenzae). *Haemophilus influenzae Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* haemophilusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Human Immunodeficiency Virus (HIV)

(hiv). Human Immunodeficiency Virus (HIV) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* hivGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

HIV Group

(hivGrp). A group of measures/methods related to Human Immunodeficiency Virus (HIV). Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* hivGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA

Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Sewer Network Health Region

(hlthReg). Health region served by the sewer network *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Hand Measurement

(hma). Handheld measurement analyzer. A handheld measurement analyzer. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

See Header for Measure

(hMe). An indicator to show in a wide-name that measure information is located in a different column. Not a valid value for measure in the standard long-format. *Part Type:* measurements *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup

Parts

Class: naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Human Metapneumovirus (HMPV)

(hmpv). Human Metapneumovirus (HMPV) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mpvGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Hollow fiber dead end ultrafiltration

(hollowFiberUF). Hollow fiber dead end ultrafiltration *Part Type:* categories *Domain:* che *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Horizontal grab sampling

(horGrb). Instrument type is a grab sampler in which the container for the sample is mounted on the end of a rod, which is suitable for collecting discharge from a pipe or truck. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

General Hospital Admissions

(hosa). Hospital admissions or patients newly admitted to hospital. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Hospital Census

(hosc). Hospital census or the number of people admitted with an ailment. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA

Parts

Minimum Length: NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Hospital

(hosptl). Hospital *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Holding tank wastewater depreciated

(hoTaWa). Wastewater from a holding tank, such as from an airplane or ship Deprecated in version 2, please do not use. Duplicate of the sampleMat categories - refer to those. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Hours

(hours). A unit for indicating a length of time in hours. *Part Type:* units *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* time *Nomenclature:* time

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Human Parainfluenza Virus (HPIV)

(hpiv). Human Parainfluenza Virus (HPIV) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* parafluGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Human Papiloma Virus (HPV)

(hpv). Human Papiloma Virus (HPV) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* papilomavirusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Human Rhinovirus (HRV)

(hrv). Human Rhinovirus (HRV) *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hrvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Human Rhinovirus (HRV) A

(hrvA). Human Rhinovirus (HRV) A *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hrvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Human Rhinovirus (HRV) B

(hrvB). Human Rhinovirus (HRV) B *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hrvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*:

Parts

seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Human Rhinovirus (HRV) C

(hrvC). Human Rhinovirus (HRV) C *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hrvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Rhinovirus Group

(hrvGrp). A group of measures/methods related to rhinoviruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: hrvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

See Header for Specimen

(hSp). An indicator to show in a wide-name that specimen information is located in a different column. Not a valid value for specimen in the standard long-format. *Part Type*: specimens *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Herpes Simplex Virus

(hsv). Herpes Simplex Virus *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: herpesGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Holding tank wastewater

(htSam). Wastewater sampled from a holding tank, such as from an airplane or ship *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Holding tank

(htSite). Holding tank *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Human compartment

(hum). A measure or observation made about a human. *Part Type:* compartments *Domain:* bio *Speciment ID:* anySpecimenSet *Compartment Set:* humanCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Human compartment set

(humanCompartmentSet). A compartment set for measures and methods in the human compartment. *Part Type:* compartmentSets *Domain:* bio *Speciment ID:* anySpecimenSet *Compartment Set:* humanCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation*

Parts

Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Humidity class

(humid). Measures and methods related to humidity. *Part Type:* classes *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* airCompartmentSet *Group:* naGroup *Class:* humid *Nomenclature:* humid *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

See Header for Unit

(hUn). An indicator to show in a wide-name that unit information is located in a different column. Not a valid value for unit in the standard long-format. *Part Type:* units *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

i1566v omicron-variant gene target

(i1566v). i1566v omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:*

anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

i3758v omicron-variant gene target

(i3758v). i3758v omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

i82t delta-variant gene target

(i82t). i82t delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Influenza A M gene

(iavM). A measure of the M gene found in Influenza A viruses (IAV). The virus has segmented RNA genome and 7th segment, M gene, encodes 2 proteins. M1 is a matrix protein and M2 is a membrane protein. The M gene may be involved in determining host tropism. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* fluAGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* genetic-UnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://virologyj.biomedcentral.com/articles/10.1186/1743-422X-6-67#:~:text=The%20M%20gene%20of%20all%20known%20human%20influenza%20A%20vir> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Ibuprofen

(ibu). Ibuprofen (usually measured as a human fecal chemical indicator) *Part Type:* measurements *Domain:* che *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

International Classification of Diseases

(icd). Classification system for diseases in humans. *Part Type*: nomenclatures *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: humanCompartmentSet *Group*: naGroup *Class*: disease *Nomenclature*: disease *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Intensive care unit patients

(icu). Units for describing a population measure of patients who are in intensive care due to a given cause. Unit for a population or disease measure to explain population-level clinical effects. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Instrument table Shorthand

(in). The abbreviated short name used to reference the The table that contains information about instruments. table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar

Parts

Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Index

(index). Index number in case the measurement was taken multiple times. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 50 *Part Status:* active. First released: active. Last updated: 2.0.0.

Industrial input

(indusIn). Percentage of total wastewater input coming from industrial sources. *Part Type:* measurements *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* siteFeat *Class:* physical *Nomenclature:* physical *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* volumeUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* genMissingnessSet *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Influent equilibration

(influEqui). Binary indicator for whether a site stores influent wastewater prior to treatment to equilibrate flow rates. *Part Type:* measurements

Domain: phy *Speciment ID:* siSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* siteFeat *Class:* physical *Nomenclature:* physical *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* qualAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Inhibition set

(inhibitionSet). Category set for inhibition methods. *Part Type:* mmaSets *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* inhibitionSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Inhibition measure

(inhibMe). Parameter to report whether or not inhibition was detected in the sample. Detected = TRUE, not detected = FALSE. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* miscMeas *Class:* sequence *Nomenclature:* sequence *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* unitlessUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Inhibition method

(inhibMeth). Description of the method used to evaluate molecular inhibition. Description of the inhibition parameters. *Part Type*: methods *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: measGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: inhibitionSet *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 100 *Part Status*: active. First released: active. Last updated: 2.0.0.

Innovaprep ultrafiltration

(innovaprepUF). Innovaprep ultrafiltration *Part Type*: categories *Domain*: che *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Input

(input). Input for a table. Indicates if a part can be used in a table. „Input“ is used to indicate if a part can be used as an entry in a table (something with partType = table). For example, covN1 is a specific measure that can be entered in the measureID field of the measures table. Therefore, covN1 is has a value “input” in the measures column in the parts list. ODM users can generate their own custom template by modifying using the value “input” for only the parts that are applicable for

their program. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Omicron Variant ins214epe Insertion

(ins214epe). Omicron Variant ins214epe Insertion *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: genetic-eUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingness-Set *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Instrument ID

(instrumentID). A unique identifier for an instrument. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnit-Set *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 10 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Instrument table

(instruments). The table that contains information about instruments. adapt from verson 1 documentation *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: programDescr *Nomenclature*: programDescr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Instruments table column order

(instrumentsOrder). Specifies the order of the columns in the Instruments table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Instrument table required headers

(instrumentsRequired). Specifies the columns required in the Instruments table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Other instrument

(instrumentTypeOther). Type of instrument other than those included in the PHES-ODM. An other type of measurement instrument. Add description to notes. See documentation for how to request new instruments added to the dictionary. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Instrument Type

(insType). Type of instrument used to perform the measurement. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* insTypeSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Describe other instrument type, if applicable

(insTypeOth). Description of the instrument in case it is not listed in instrumentType. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* active. First released: active. Last updated: 2.0.0.

Instrument set

(insTypeSet). List of instruments that are used for measures and methods *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* insType-Set *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Integrase Anti-microbial resistance Group

(intAMRGrp). The group for measures and methods pertaining to integrase-related anti-microbial resistance. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* intAMRGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 50 *Part Status:* active. First released: active. Last updated: 2.1.0.

Integer data type

(integer). The data type for integers. Only used for the dictionary entries of parts. *Part Type:* dataTypes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Integrase Class I gene target

(integraseCl1). Integrase anti-microbial resistance gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* intAMRGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Intercept

(inter). Intercept value of the calibration curve. Used for storing calibration curve information, potentially also applicable for other curve types. *Part Type:* units *Domain:* allDo *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* standardCurve

Parts

Nomenclature: standardCurve *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Combined ip2 and ip4 sars-cov-2 gene target

(ip2ip4). Combined ip2 and ip4 sars-cov-2 gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnit-Set *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

ISC

(isc). The licensing for the measure or data set is managed under the ISC license. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/isc/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

ISO639-1

(iso6391). The first part of the ISO 639 series of international standards for language codes. Part 1 covers the registration of two-letter codes. There are 183 two-letter codes registered as of June 2021. The registered codes cover the world's major languages. Part of the metedata for a languageID. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

ISO639-2B

(iso6392B). A set of international standards that lists short codes for language names. These ISO639-2 are the three-letter codes defined in part two (ISO 639-2) of the standard, including the corresponding two-letter (ISO 639-1) codes where they exist. The 'B' specifies the bibliographic code (B code). Part of the metedata for a languageID. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

ISO639-2T

(iso6392T). A set of international standards that lists short codes for language names. These ISO639-2 are the three-letter codes defined in part two (ISO 639-2) of the standard, including the corresponding two-letter (ISO 639-1) codes where they exist. The ‘T’ specifies the terminological code (T code). Part of the metedata for a languageID. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

ISO639-3

(iso6393). A set of international standards that lists short codes for language names. ISO 639-3 extends the ISO 639-2 alpha-3 codes with an aim to cover all known natural languages. Part of the metedata for a languageID. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

ISO639-6

(iso6396). A set of international standards that lists short codes for language names. ISO 639-6 builds off ISO639-3 with the use of four-letter codes, and allowing users to differentiate between variants of languages and language families, such as historical vs. revived versions of languages. Part of the metadata for a languageID. *Part Type:* attributes *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

ISO 3166-1 alpha-2 country code

(isoCode). The ISO 3166-1 alpha-2 code, a two-letter country code which is also used to create the ISO 3166-2 country subdivision code and the Internet country code top-level domain. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 2 *Maximum Length:* 2 *Part Status:* active. First released: active. Last updated: 2.1.0.

Parts

ISO 3166-1 alpha-3 country code

(isoCodeX). The ISO 3166-1 alpha-3 code, a three-letter country code which may allow a better visual association between the code and the country names than the 3166-1 alpha-2 code. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 3 *Maximum Length:* 3 *Part Status:* active. First released: active. Last updated: 2.1.0.

ISO 3166-2 code for country sub-domain

(isoZone). The ISO 3166-2 codes for the names of the principal subdivisions (e.g., provinces, states, departments, regions) of all countries coded in ISO 3166-1. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 4 *Maximum Length:* 6 *Part Status:* active. First released: active. Last updated: 2.1.0.

JN.1.7 Variant

(jn17V). The JN.1.7 variant of SARS-CoV-2, one of the FLiRT variants. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet

Compartment Set: anyCompartmentSet *Group:* flirtSLipGrp *Class:* variant *Nomenclature:* variant *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

JN.1 Variant

(jn1V). The JN.1 variant is a subvariant of Omicron variant BA.2.86, and contains several mutations that are associated with escape from vaccine-mediated immune protection. The source of the FLiRT variants of SARS-CoV-2. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* flirtSLipGrp *Class:* variant *Nomenclature:* variant *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

k856r omicron-variant gene target

(k856r). k856r omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA

Parts

Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Kilogram per second

(kgS). Kilograms per second. *Part Type:* units *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* na-Group *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Kilolitres

(kl). Kilolitres of volume *Part Type:* units *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* na-Group *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Klebsiella Group

(klebsiellaGrp). A group of measures/methods related to klbsiella bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* klebsiellaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:*

Parts

naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Klebsiella pneumoniae

(klebsiellaPneu). Klebsiella pneumoniae *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: klebsiellaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

KP.1.1 Variant

(kp11V). The KP.1.1 variant of SARS-CoV-2, one of the FLiRT variants. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flirtsLipGrp *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

KP.1 Variant

(kp1V). The KP.1 variant of SARS-CoV-2, one of the FLiRT variants.
Part Type: measurements *Domain*: bio *Speciment ID*: saSpecimenSet
Compartment Set: anyCompartmentSet *Group*: flirtSLipGrp *Class*: variant
Nomenclature: variant *Ontology Reference*: NA *Category Set ID*: NA
Unit Set: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA
Reference Link: NA *Data Type*: seeUnitData *Missingness Set*: gen-MissingnessSet
Minimum Value: seeUnitVal *Maximum Value*: seeUnitVal
Minimum Length: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

KP.2 Variant

(kp2V). The KP.2 variant of SARS-CoV-2, one of the FLiRT variants.
Part Type: measurements *Domain*: bio *Speciment ID*: saSpecimenSet
Compartment Set: anyCompartmentSet *Group*: flirtSLipGrp *Class*: variant
Nomenclature: variant *Ontology Reference*: NA *Category Set ID*: NA
Unit Set: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA
Reference Link: NA *Data Type*: seeUnitData *Missingness Set*: gen-MissingnessSet
Minimum Value: seeUnitVal *Maximum Value*: seeUnitVal
Minimum Length: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Litres

(l). Litres of volume *Part Type*: units *Domain*: phy *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Omicron Variant l24s mutation

(l24s). Omicron Variant l24s mutation *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* omicronGrp *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

I452r delta-variant gene target

(I452r). I452r delta-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

L455S Mutation

(I455s). The FLiRT/SLip variant mutation L455S. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:*

Parts

anyCompartmentSet *Group*: flirtSLipGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

1981f omicron-variant gene target

(1981f). 1981f omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Language Look-up table Shorthand

(la). The abbreviated short name used to reference the Look up table for all languages, used to give structure to the translation table. table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Laboratory

(lab). Laboratory for environmental testing. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Lab ID default deprecated

(labDefDep). Used as default when a new sample is created by this reporter. See ID in Lab table. Deprecated as of version 2, no defaults please specify. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 10 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Laboratory duplicate

(labDuplicate). Second (time or more) processing and analysis of sample. Usually for general chemistry or metals analyses. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar

Parts

Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Label

(label). A human readable label of a part. Typically, a part label has no acrynomns (every word is spelled out). Equivalent to a LOINC common name. *Part Type:* partSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Lab ID

(labID). Unique identifier for a laboratory. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 10 *Part Status:* **deprecated**. First released: deprecated. Last updated: 2.1.0.

Lagoon system

(lagoon). Logoon system for extensive wastewater treatment *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomen-*

Parts

clature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Lake, natural water body

(lake). Lake, natural water body *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Lambda

(lamba). C.37 *Part Type: measurements Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: sarsCov2 Class: variant Nomenclature: variant Ontology Reference: NA Category Set ID: NA Unit Set: geneticUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: seeUnitData Missingness Set: genMissingnessSet Minimum Value: seeUnitVal Maximum Value: seeUnitVal Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.*

Land-based Transit Hub

(landTH). A transport hub is a place where passengers and cargo are exchanged between land-based vehicles and/or between land-based transport

Parts

modes. Used when not greater detail can be provided *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Language ID

(lang). Language code for translation purposes. Specifies the language for each translation, other than the default English. Uses the ISO-6393 code. Follow the ISO639-3 codes for now. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Language family

(langFam). Specifies the language family of a given language for translation and language tracking purposes. Part of the metedata for a languageID. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Language name

(langName). Specifies the name of the language in roman alphabet characters for translation and language tracking purposes. Part of the metedata for a languageID. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

National language script

(langScript). The language(s) and script(s) used for the country, ÄöÑ¥Ù capital endonyms. The scripts are listed in parenthesis, in the order of their appearance. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 75 *Part Status:* active. First released: active. Last updated: 2.1.0.

Parts

Language Look-up table

(languages). Look up table for all languages, used to give structure to the translation table. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: lookup *Nomenclature*: lookup *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Language table column order

(languagesOrder). Specifies the order of the columns in the Languages table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Language table required headers

(languagesRequired). Required headers in the Languages table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Last edited

(lastEdited). The date the entry was last updated. Use lastEdited if an entry is updated. Leave lastEdited blank or ‘NA’ for the first entry. Updates can include additions or revisions of the entry for any reason. For example, a wastewater measure was repeated later with an improved method. You can revise the entry by updating the value and then adding the date the new measure was performed to ‘lastEdited’. To ensure data provenance, the best practice in this example is to generate a new entry with the same measureID as the original measureID. The original and new measures are kept in the database with a date in the ‘lastEdited’ field for the new entry but not the original one. Some databases may choose a delete-and-replace approach where the original entry is deleted and replaced by a new entry. In this approach, the ‘lastEdited’ field indicates the delete and replace occurred. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* datetime *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Last name of contact

(lastName). Specifies the last name of a given contact. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Last updated version

(lastUpdated). The version in which the part was last updated. Any change to the part of list will result in a change in the lastUpdated field to the dictionary version where the update occurred. *Part Type*: part-Support Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

LaTeX expression

(latExp). LaTeX expression used to generate formulas, symbols, etc. Mainly relevant for units. *Part Type*: partSupport Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 20 Part Status: active. First released: active. Last updated: 2.0.0.

Latrine

(latrine). A toilet or outhouse, especially a communal one in a camp or barracks. *Part Type*: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA

Parts

Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Low breadth of coverage

(lBC). The percentage of the genome covered by reads (the breadth) is low. *Part Type:* qualityIndicators *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Laboratory control sample duplicate

(lcsd). Known amounts of an analyte or representative compounds are added to a second “clean” matrix (lab water or clean sand) in laboratory. Duplicate of LCS *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Low depth of coverage

(lDC). Poor coverage, specifically an insufficient number of reads or too many sequencing reads that are mapped incorrectly. *Part Type:* qualityIndicators *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:*

Parts

ment Set: naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Leaked sample

(leaked). Sample leaked, some volume and material was lost. *Part Type:* qualityIndicators *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Legionella

(legionella). Legionella *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* legionellaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Legionella Group

(legionellaGrp). A group of measures/methods related to legionella bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: legionellaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Lentivirus Group

(lentiGrp). A group of measures/methods related to lentiviruses, including viral vectors such as the Puro virus vector. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: lentiGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

GNU Lesser General Public License v2.1

(lgpl21). The licensing for the measure or data set is managed under the GNU Lesser General Public License v2.1. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*:

Parts

naUnitSet Aggregation Scale: NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/lgpl-2.1/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

GNU Lesser General Public License v3.0

(lgpl30). The licensing for the measure or data set is managed under the GNU Lesser General Public License v3.0. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/lgpl-3.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Link

(li). Link to an external reference that describes the geometry of the polygon. Deprecated as of version 2, please avoid use. Use referenceLink instead. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

License

(license). The license of a dataset. Specify the dataset's license name or provide a description of the license. Individual measures may possess their own licenses, which take precedence over the overall database license. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: licSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Data license set

(licSet). The set to describe valid categorical values for the licensing fields for measures or datasets. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/appendix/> *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Linear scale aggregation set

(linearAggrSet). The aggregation set that contains all aggregations that exist on the linear scale. *Part Type*: aggregationSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet

Parts

Group: naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Liquid fraction

(liq). Liquid fraction of a sample. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Liquid/Supernatant retained

(liquid). The liquid or supernatant is retained after solid separation/centrifugation. *Part Type:* categories *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Listeria

(listeria). Listeria *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: listeriaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Listeria Group

(listeriaGrp). A group of measures/methods related to listeria bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: listeriaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

List worksheet

(lists). Parts lists for template dropdowns and other documentation. Sheets or tabs for the ODM Excel dictionary include: all ERD tables (look-up tables and data entry tables) and additional supportig tables. *Part Type*: dictionarySupport *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA

Parts

Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

List set

(listSet). PartTypes that contain categories, sets, or lists. Used to generate documentation. *Part Type:* dictSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* airCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Access to local ha

(localHA). If this is ‘no’, the, data will not be available to local health authorities. If missing, data will be available to local health authorities. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Limit of detection (LOD)

(lod). Limit of detection, ie. the minimum level of a genetic target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:*

Parts

ment Set: anyCompartmentSet Group: procGrp Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: geneticUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: seeUnitData Missingness Set: genMissingnessSet Minimum Value: seeUnitVal Maximum Value: seeUnitVal Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.

Limit of detection (LOD) - sewage

(lodSewa). Limit of detection, ie. the minimum level of a genetic target, for sewage samples. *Part Type: measurements Domain: bio Speciment ID: saSpecimenSet Compartment Set: waterCompartmentSet Group: procGrp Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: geneticUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: seeUnitData Missingness Set: genMissingnessSet Minimum Value: seeUnitVal Maximum Value: seeUnitVal Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.*

log10 gene copies per g

(log10cpG). Unit for log10 copies per gram *Part Type: units Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: quantAggScale Quality Set: NA Reference Link: NA Data Type: integer Missingness Set: NA Minimum Value: 0 Maximum Value: NA Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.2.0.*

Parts

log10 gene copies per L

(log10cpL). Unit for log10 copies per litre *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

log10 gene copies per mL

(log10cpml). Unit for log10 copies per mililitre *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

log10 micrograms per g

(log10ugG). Unit for log10 micrograms per gram *Part Type*: units *Domain*: allDo *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: standardConc *Nomenclature*: standard-Conc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

log10 micrograms per L

(log10ugL). Unit for log10 micrograms per litre *Part Type*: units *Domain*: allDo *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: standardConc *Nomenclature*: standard-Conc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Logarithmic scale aggregation set

(logAggrSet). The aggregation set that contains all aggregations that exist on the logarithmic scale (rather than linear or qualitative). *Part Type*: aggregationSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Dictionary tables

(lookup). Tables to describe and support the ODM dictionary. These tables hold information on sets, all parts, and support multiple languages and translations. The tables are updated by the ODM development team when a new ODM version is created. *Part Type*: classes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: lookup *Nomenclature*: lookup *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet

Parts

Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Limit of quantification (LOQ)

(loq). Loq Limit of quantification (LOQ) for this method if one exists. *Part Type: measurements Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: pcr Nomenclature: pcr Ontology Reference: NA Category Set ID: NA Unit Set: geneticUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: seeUnitData Missingness Set: genMissingnessSet Minimum Value: seeUnitVal Maximum Value: seeUnitVal Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.*

Low severity

(low). A marker for low severity *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Lower limit of a 95% confidence interval

(lowerCI95). Specifies the the lower limit of a 95% confidence interval. Should typically be linked to an upper limit, and some indication of data

Parts

spread (ie. standard deviation), and a mean/median measure. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Low-volume sample

(lowVol). Sample is low-volume, but was run regardless. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Omicron Variant LPPA24S mutation

(lppa24s). Omicron Variant LPPA24S mutation *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingness-Set *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

LaTeX Project Public License v1.3c

(lppl13c). The licensing for the measure or data set is managed under the LaTeX Project Public License v1.3c. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/lppl-1.3c/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Long-term care facility

(ltcf). A residential healthcare facility that provides 24-medical care. These are also called skilled nursing facilities. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Long-term care - assisted living or retirement home

(ltcfAl). A residential facility that provides assistance with daily care but generally does not provide skilled nursing care. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Other long-term care

(ltcfO). Other residential facilities that provide daily and/or medical care, but are not defined as nursing home/skilled nursing facilities or assisted living facilities. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Life technologies digital PCR

(ltDpcr). Describes a PCR analysis done using Life Technologies' digital PCR technology. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

luminultra wastewater extraction kit

(luminWWExtract). luminultra wastewater extraction kit *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: any-*CompartmentSet Group*: procGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Lysis buffer

(lysi). Lysis buffer. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Cubic metres per day

(m3D). Cubic metres per day. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Cubic metres per hour

(m3H). Cubic metres per hour. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Cubic metres per second

(m3S). Cubic metre per second. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Plasmodium or Malaria Group

(malariaGrp). A group of measures/methods related to plasmodium parasites or malaria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: malariaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum*

Parts

Length: 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Manual Composite Sample

(manComp). Specifies a composite sample where the sub-samples were collected manually. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Manufacturer

(manufacturer). Manufacturer of an instrument. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* active. First released: active. Last updated: 2.0.0.

Mate pair layout

(mateLay). Specifies the mate pair layout for a sequencing method. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet

Parts

Aggregation Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Maximum length

(maxLength). The maximum length of the value of a part or measure. *Part Type:* partSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Maximum value

(maxVal). Highest value in a range of values for a measure. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Maximum value part support

(maxValue). The maximum value of a part. *Part Type:* partSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

MCR-1.1 Colistin-resistence gene target

(mcr11). The MCR-1.1 colistin anti-microbial resistance gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colAMRGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://www.mediterranee-infection.com/accesressources/base-de-donnees/arg-annot-2/> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Arithmetic mean

(me). Arithmetic mean. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Measurement group

(measGrp). A group of measures that cannot be otherwise categorized.
Part Type: groups *Domain*: naDomain *Speciment ID*: naSpecimenSet
Compartment Set: naCompartmentSet *Group*: naGroup *Class*: naClass
Nomenclature: naClass *Ontology Reference*: NA *Category Set ID*: NA
Unit Set: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA
Maximum Value: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Measles

(measles). Measles *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: measles-Grp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Measles Group

(measlesGrp). A group of measures/methods related to the measles virus. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: measlesGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Other Measure

(measOth). Other measure, not otherwise specified in measures. Add description to categoryOther. *Part Type:* measurements *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Measures quality set

(measQualitySet). A quality set for any measure, includes all the quality flag options for any measure. Used as an “any quality set” for measures, but excludes the sample quality flags to avoid confusion and data entry errors. *Part Type:* qualityIndSets *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Measure

(measure). A measurement or observation of any substance including a biological, physical or chemical substance. An measurement is recorded from a specimen (i.e. a site, sample, person or population). Measures are organized into groups and classes (sub-groups). *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 12 *Part Status*: active. First released: active. Last updated: 2.0.0.

Measure input (wide table)

(measureInput). The partID for the measure being used in a wide name. *Part Type*: attributes *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Measure license

(measureLic). Specifies the access and use licensing for a given single measurement. Populated by partID = licenseID *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass

Parts

Ontology Reference: NA *Category Set ID:* licSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Measures

(measurements). The attribute to describe a part type of measures. All measures have ‘partType‘ = “measure”. *Part Type:* partType *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Measure name (wide table)

(measureName). The measure referenced for the wide name. *Part Type:* attributes *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Report ID

(measureRepID). Unique identifier for a measurement. Report IDs cannot be repeated. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Measure report table

(measures). The table that contains information and details about a given measure adapt from verson 1 documentation *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: results *Nomenclature*: results *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Measure set report set ID

(measureSetRepID). Unique identifier that links together a group of related measures. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA

Parts

Reference Link: NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Measure set report table

(measureSets). The table that identifies sets of measures. Examples of measure sets include a set of replicates, dilutions (used to generate a Ct curve) or varients that are identified in a single sample. *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* results *Nomenclature:* results *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Measure sets table column order

(measureSetsOrder). Specifies the order of the columns in a Measure Sets table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Measure Set table required headers

(measureSetsRequired). Specifies the columns required in a Measure Sets table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Measures table column order

(measuresOrder). Specifies the order of the columns in a Measures table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Measures table required headers

(measuresRequired). Specifies the columns required in a Measures table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Median

(med). Median. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

membrane filtration with addition of mgcl3

(memMgCl3). membrane filtration with addition of mgcl3 *Part Type*: categories *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Normalized arithmetic mean

(menr). Arithmetic mean, normalized. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Other Measure Description

(meOthDe). Description of other measure (measOtherDesc). *Part Type*: measurements *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 60 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Measures Part-type Shorthand

(mes). The abbreviated short name used to reference the The attribute to describe a part type of measures. All measures have ‘partType’ = “measure”. part type *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Methods part-type Shorthand

(met). The abbreviated short name used to reference the Procedures or steps for collecting samples or performing measures. part type *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA

Parts

Data Type: varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Metabolite Group

(metaboliteGrp). A group of measures/methods related to metabolites. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* metaboliteGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Method

(method). A procedure for collecting a sample or performing a measure. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 10 *Part Status:* active. First released: active. Last updated: 2.0.0.

Concentration method

(methodConc). Description of the method to concentrate a wastewater sample. Description of the method used to concentrate the sample *Part*

Type: methods *Domain:* allDo *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* methodConcSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* active. First released: active. Last updated: 2.0.0.

Concentration method set

(methodConcSet). A set a concentration methods. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Method input (wide table)

(methodInput). The partID for the method being used in a wide name. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Method name (wide table)

(methodName). The method referenced for the wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Methods

(methods). Procedures or steps for collecting samples or performing measures. For example, ‘methodExtract’ is a method that describes the how a sample was extracted. *Part Type*: partType *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Membrane filtration with acidification and mgcl2

(mfAcidmgcl2). Membrane filtration with acidification and mgcl2 *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Membrane filtration with acidification and mgcl2, membrane recombined with separated solids

(mfAcidmgcl2SS). Membrane filtration with acidification and mgcl2, membrane recombined with separated solids *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Membrane filtration with addition of mgcl2

(mfMgcl2). Membrane filtration with addition of mgcl2 *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Membrane filtration with mgcl2 and separated solids

(mfMgcl2SS). Membrane filtration with addition of mgcl2, membrane recombined with separated solids *Part Type:* categories *Domain:* naDomain

Parts

Speciment ID: naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Membrane filtration with no amendment

(mfNoAmend). Membrane filtration with no amendment *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Membrane filtration with no amendment, membrane recombined with separated solids

(mfNoAmendSS). Membrane filtration with no amendment, membrane recombined with separated solids *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Membrane filtration with sample acidification

(mfSampleAcid). Membrane filtration with sample acidification *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Membrane filtration with sample acidification, membrane recombined with separated solids

(mfSampleAcidSS). Membrane filtration with sample acidification, membrane recombined with separated solids *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Millions of gallons per day (MG/D)

(mgd). A unit for measuring of design capacity for wastewater treatment plants, represented as millions of gallons per day. Also can be used to measure flow. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*:

Parts

NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Mycoplasma genitalus

(mGenitalus). Mycoplasma genitalus *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: mycoplasmaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Milligrams per litre

(mgL). Milligrams per litre. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Murine Hepatitis Virus

(mhv). A measure for amount of murine hepatitis virus. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*:

anyCompartmentSet *Group*: hepGrp *Class*: allele *Nomenclature*: allele
Ontology Reference: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet
Aggregation Scale: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA
Data Type: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA
Maximum Length: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

murine hepatitis virus (MHV) spike target

(mhvSpike). Murine hepatitis virus is used as the recovery efficiency control target. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Multiple issues

(mI). Multiple issues have arisen in the sequencing process. When using the ‘multiple issues’ quality flag, please specify the issues and details in the notes section. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Mid-level severity

(mid). A marker for med-level severity, where there are some concerns.
Part Type: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet
Compartment Set: naCompartmentSet *Group*: naGroup *Class*: naClass
Nomenclature: naClass *Ontology Reference*: NA *Category Set ID*: NA
Unit Set: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA
Data Type: varchar *Missingness Set*: NA *Minimum Value*: NA
Maximum Value: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Minimum length

(minLength). The maximum value of measure. *Part Type*: partSupport
Domain: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet
Group: naGroup *Class*: naClass *Nomenclature*: naClass
Ontology Reference: NA *Category Set ID*: NA *Unit Set*: naUnitSet
Aggregation Scale: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer
Missingness Set: NA *Minimum Value*: NA *Maximum Value*: NA
Minimum Length: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Minutes

(minutes). A unit for indicating a length of time in minutes. *Part Type*: units
Domain: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet
Group: naGroup *Class*: time *Nomenclature*: time
Ontology Reference: NA *Category Set ID*: NA *Unit Set*: naUnitSet
Aggregation Scale: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer
Missingness Set: NA *Minimum Value*: 0 *Maximum Value*: NA
Minimum Length: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Minimum value

(minVal). Lowest value in a range of values for a measure. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Minimum value part support

(minValue). The minimum value of part. *Part Type*: partSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Miscellaneous attribute group

(miscAttr). A group of miscellaneous measurement-like attributes. Examples of these would be longitude and latitude, or EPSG coordinates. *Part Type*: groups *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum*

Parts

Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active.
First released: active. Last updated: 2.0.0.

Miscellaneous measure group

(miscMeas). A group of measures that cannot be otherwise categorized.
Part Type: groups *Domain:* naDomain *Speciment ID:* naSpecimenSet
Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA
Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Missingness

(missingness). The part type for missingness values. Only used for the dictionary entries of parts. *Part Type:* partType *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Missingness Set

(missingnessSet). Missingness sets for measures, methods or attributes. Inputted data into an ODM field may have missing data. The missingness set lists valid missing categories for the measure, method, or attribute.
Part Type: attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet

Compartment Set: anyCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Missingness sets

(missingnessSets). Set of missingness values. Examples of missingness sets may include NR or NA esclusive sets, or general all-purpose sets.
Part Type: partType *Domain:* naDomain *Speciment ID:* naSpecimenSet
Compartment Set: anyCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

MIT

(mit). The licensing for the measure or data set is managed under the MIT license.
Part Type: categories *Domain:* naDomain *Speciment ID:* naSpecimenSet
Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/mit/> *Data Type:* varchar
Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

MIT No Attribution

(mit0). The licensing for the measure or data set is managed under the MIT no attribution license. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/mit-0/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Mixed/homogenized sample

(mix). Mixed or homogenized sample or fraction analyzed. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Millilitres

(ml). Millilitres of volume *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Megalitres per day (ML/d)

(mld). Megalitres per day. *Part Type:* units *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Method Limit of Detection (LOD)

(mlod). The minimum level of a target necessary for its consistent detection considering all sample processing steps as in the definition of SLOD), but considering biases attributable to method losses. The MLOD is experimentally determined using a rigorous and iterative testing approach and it is sensitive to the recovery surrogate used and the sample matrix encountered. *Part Type:* measurements *Domain:* bio *Specimen ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Millimetres

(mm). Unit part for the SI unit of millimetres. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Measure, Method, or Attribute Set Header

(mmaSet). The set for a measure, method, or attribute. Only applicable for categorical fields, and the categories that populate them. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 12 *Part Status*: active. First released: active. Last updated: 2.0.0.

Measure, method, or attribute sets

(mmaSets). A set of categories. For example, site type has a list of different sites, such as a wastewater treatment plant, a septic tank, or a pumping station. Only used for the dictionary entries of parts. *Part Type*: partType *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data*

Parts

Type: categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Model

(model). Model number or version of the instrument. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* active. First released: active. Last updated: 2.0.0.

monarch total RNA miniprep kit (new england biolabs) + onestep PCR inhibitor removal kit (zymo)

(monarchRNA). monarch total RNA miniprep kit (new england biolabs) + onestep PCR inhibitor removal kit (zymo) *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Months

(months). A unit for indicating a length of time in months. *Part Type:* units *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:*

Parts

anyCompartmentSet Group: naGroup Class: time Nomenclature: time Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: quantAggScale Quality Set: NA Reference Link: NA Data Type: integer Missingness Set: NA Minimum Value: 0 Maximum Value: NA Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.

Moore swab passive sample

(moorSw). Moore swab passive sample. Use collectionPeriod to describe how many hours the Moore swab was used to collect the sample *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Mozilla Public License 2.0

(mpl20). The licensing for the measure or data set is managed under the Mozilla Public License 2.0. *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: https://choosealicense.com/licenses/mpl-2.0/ Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

Mpox

(mpox). The virus known as Mpox, previously also known as Monkey Pox. *Part Type*: measurements *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: mpoxGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

MPox Clade I Group

(mpoxCldIGrp). A group of measures/methods related to Mpox Clade I (formerly “Monkey Pox”). Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: mpoxCldIGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

MPox Clade II Group

(mpoxCldIIGrp). A group of measures/methods related to Mpox Clade II (formerly “Monkey Pox”). Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: mpoxCldIIGrp

Parts

Class: organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

MPox Group

(mpoxGrp). A group of measures/methods related to Mpox (formerly “Monkey Pox”). Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mpoxGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Metres per second

(mps). metres per second. *Part Type:* units *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Metapneumovirus Group

(mpvGrp). A group of measures/methods related to metapneumoviruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: mpvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Mpox B6R Gene Target

(mpxB6R). Human MPox Virus (hMPXV) gene target. Envelope protein gene CDC Assay; selective for MPXV. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: mpoxGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: <https://doi.org/10.1016/j.jcv.2006.03.012> *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Clade I Mpox C3L Gene Target

(mpxC3L). Human MPox Virus (hMPXV) Clade I gene target. hMPXV C3L primers and, Äö/Ñ/öprobe, Äö/Ñ/ödetect Clade I viruses. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment*

Parts

Set: anyCompartmentSet *Group:* mpoxCldIGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://doi:10.1016/j.jviromet.2010.07.012> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Mpox Clade I

(mpxCII). The virus known as Mpox, previously also known as Monkey Pox, Clade I virus type. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mpoxCldIGrp *Class:* variant *Nomenclature:* variant *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.3.

Mpox Clade II

(mpxCIII). The virus known as Mpox, previously also known as Monkey Pox, Clade II virus type. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mpoxCldIIGrp *Class:* variant *Nomenclature:* variant *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.3.

Mpox & Orthopox E9L-NVAR Gene Target

(mpxe9lNVAR). Human MPox Virus (hMPXV) gene target for Orthopoxvirus DNA polymerase. CDC Assay detects all hMPXV, Äö/Ñ/£ clades and non-variola Orthopox viruses. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentsSet *Group:* mpoxGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://doi.org/10.1016/j.jcv.2006.03.012> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Mpox & Orthopox E9L-OPX3 Gene Target

(mpxe9lOPX3). Human MPox Virus (hMPXV) gene target using the generic orthopox virus OPX3. Lower sensitivity for MPox. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentsSet *Group:* mpoxGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://doi.org/10.4269/ajtmh.2010.09-0716> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Mpox Clade I F3L Gene Target

(mpxF3L). Human MPox Virus (hMPXV) Clade I gene target, F3L *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* anyCompartmentsSet *Group:* mpoxCldIGrp *Class:* allele

Parts

Nomenclature: allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.3.

Mpox G2R-G Gene Target

(mpxG2RG). Human MPox Virus (hMPXV) gene target using the G2R_G primers and probe which detects all MPox Virus strains. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mpoxGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* https://doi.org/10.1016/j.jviromet.2010.07.012 *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Mpox G2R-NML Gene Target

(mpxG2RNML). Human MPox Virus (hMPXV) gene target using the G2R_NML primers and probe which detects all MPox Virus strains. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mpoxGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum*

Parts

Length: NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.3.

Clade II Mpox G2R-WA Gene Target

(mpxG2RWA). Human MPox Virus (hMPXV) Clade II gene target, measured with G2R_WA primers and probe to detects Clade II viruses. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mpoxCldIIGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://doi:10.1016/j.jviromet.2010.07.012> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Mpox GT Molecular Gene Target

(mpxGTmol). Human MPox Virus (hMPXV) gene target - this specific measure and gene target are proprietary to GT Molecular *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mpoxGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Measure report table Shorthand

(mr). The abbreviated short name used to reference the The table that contains information and details about a given measure table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Methicillin-resistant Staphylococcus aureus (MRSA)

(mrsa). Methicillin-resistant Staphylococcus aureus (MRSA) *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: staphGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Measure set report table Shorthand

(ms). The abbreviated short name used to reference the The table that identifies sets of measures. table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*:

Parts

varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.2.

ms2 coliphage

(ms2Col). Measure of the amount of ms2 coliphage. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* phageGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

ms2 coliphage spike target

(ms2ColMat). ms2 coliphage is used as the recovery efficiency control target. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Matrix spike duplicate

(msd). A known amounts of an analyte or representative compounds are added in the laboratory to a second aliquot of the sample used for matrix

Parts

spike. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Microsoft Public License

(mspl). The licensing for the measure or data set is managed under the Microsoft Public License. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/ms-pl/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Moore swab passive sample deprecated

(mspsDep). Moore swab passive sample. Deprecated in version 2, please do not use. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Major sewer pipeline

(mSwrPpl). Major sewer pipeline *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Mycobacterium tuberculosis

(mTuberculosis). Mycobacterium tuberculosis *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: tuberculosisGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Mu

(mu). B.1.621 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness*

Parts

Set: genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

murine coronavirus

(muCo). Measure of the amount of murine coronavirus. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* betaCoronaGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

murine coronavirus spike target

(muCoMat). Murine coronavirus is used as the recovery efficiency control target. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Multiple fraction

(mul). Multiple fractions were analyzed separately and aggregated together post-analysis. This fractionID is intended for use for archival data and should not be used for newly added new moving forward (2022).

Parts

Please also specify in the notes section which fractions were used for the multiple fractions (ex. solid and liquid) to avoid loss of information. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Mulan Permissive Software License, Version 2

(mulanPSL20). The licensing for the measure or data set is managed under version 2 of the Mulan Permissive Software License. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/mulanpsl-2.0/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Multiple Purpose

(multiple). A measure or sample taken for multiple purposes, not easily captured by the other purpose categories. Useful for parent samples where various subsamples will have different purposes/ *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data*

Parts

Type: varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Mumps

(mumps). Mumps *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mumps-Grp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Mumps Group

(mumpsGrp). A group of measures/methods related to the mumps virus. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mumpsGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Municipalities or communes

(municipalLevel). Municipalities or communes *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* na-CompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* nrNAMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.1.0.

Municipality

(municip). A complete municipality, this specifies an entire metropolitan area, either a city, town, etc. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Mutations class

(mutation). Measures and methods related to mutations. *Part Type:* classes *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Mycoplasma Group

(mycoplasmaGrp). A group of measures/methods related to mycoplasma bacteria. Used to describe the organism information for general measures.
Part Type: groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* mycoplasmaGrp *Class:* organism
Nomenclature: organism *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA
Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

N sars-cov-2 gene target

(n). N sars-cov-2 gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Combined N1 and N2 sars-cov-2 gene target

(n1n2). Combined N1 and N2 sars-cov-2 gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:*

Parts

NA *Maximum Length*: NA *Part Status*: active. First released: active.
Last updated: 2.0.0.

Influenza A N1 neuraminidase gene

(n1neur). Measure of the N1 neuraminidase gene from the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: fluAGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Omicron Variant n211i mutation

(n211i). Omicron Variant n211i mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Omicron Variant n679k mutation

(n679k). Omicron Variant n679k mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*:

Parts

anyCompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingness-Set *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Omicron Variant n856k mutation

(n856k). Omicron Variant n856k mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingness-Set *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Omicron Variant n969k mutation

(n969k). Omicron Variant n969k mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingness-Set *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Not applicable

(NA). The field for which the expected value is not a property of the described object. Missing value indicator for missing data with no explanation. *Part Type*: missingness *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Aggregation not applicable

(naAggr). Not applicable for aggregations. Used for parts for which an aggregation value is not applicable or appropriate. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Aggregation scale not applicable

(naAggrScale). Not application for aggregation sets. Used for parts for which an aggregation scale value is not applicable or appropriate. *Part Type*: aggregationScales *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA

Parts

Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Aggregation set not applicable

(naAggrSet). Not application for aggregation sets. Used for parts for which an aggregation set value is not applicable or appropriate. *Part Type:* aggregationSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Class not applicable

(naClass). Class is not applicable. Use this for all parts that don't have classes (most non-measure or method parts) *Part Type:* classes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Compartment not applicable

(naCompartment). Compartment not applicable. *Part Type:* compartments *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment*

Parts

Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 15 Part Status: active. First released: active. Last updated: 2.0.0.

Compartment set not applicable

(naCompartmentSet). Compartment not applicable. *Part Type: compartmentSets Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 13 Part Status: active. First released: active. Last updated: 2.0.0.*

Domain not applicable

(naDomain). Not applicable. Use ‘not applicable’ when there is no domain for the part *Part Type: domains Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Parts

Group not applicable

(naGroup). Used when there is no group; ie. group is not applicable. Use ‘not applicable’ when there is no group for the part *Part Type*: groups *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Name

(name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity. Name of any entity. Use a prefix to distinguish names from different report tables. See fully specified name (FSN) list. i.e. Si-name = Site name, Po-name = Polygon name, Or-name = Organization name, Me-name = Method-name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

English name for countries

(nameEngl). English-language name of a given country. Preprogrammed into dictionary tables, not editable by users. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: na-

Parts

CompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 75 *Part Status*: active. First released: active. Last updated: 2.1.0.

Official state name

(nameOfficial). Official english-language name of a given state. Preprogrammed into dictionary tables, not editable by users. *Part Type*: attributes *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 75 *Part Status*: active. First released: active. Last updated: 2.1.0.

Not a number

(nan). The outcome of a measurement is not a valid number (plus or minus infinity, error, ...) Missing values indicator for when a numeric value is expected but not given. *Part Type*: missingness *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Nomenclature not applicable

(naNomenclature). Not applicable. Use ‘not applicable’ when there is no nomenclature for the part *Part Type*: nomenclatures *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Specimen not applicable

(naSpecimen). Non applicable specimen. Use ‘not applicable’ when there is no specimen/set for the part *Part Type*: specimens *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Specimen set not applicable

(naSpecimenSet). A specimen set for when specimen/specimen set is not applicable. Use ‘not applicable’ when there is no specimen/set for the part *Part Type*: specimenSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*:

NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Native Name

(natName). The native name of the language, i.e. what the language is called by its speakers. Part of the metedata for a languageID. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Unit not applicable

(naUnit). Not applicable for units. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Unit set not applicable

(naUnitSet). Not applicable for unit sets. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet

Parts

mentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

National Center for Biotechnology Information

(ncbi). NCBI header *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Nomenclaturre from the NCBI

(ncbiNom). Nomenclaturre from the National Center for Biotechnology Information *Part Type: nomenclatures Domain: naDomain Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

NCBI - notes

(ncbiNotes). NCBI notes *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

University of Illinois/NCSA Open Source License

(ncsa). The licensing for the measure or data set is managed under the University of Illinois/NCSA Open Source License. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/ncsa/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Neighbourhood

(neigh). A municipal neighbourhood, this specifies a sub-section of a larger municipality. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Local administrative units or neighborhoods

(neighborLevel). Local administrative units or neighborhoods *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* nrNAMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.1.0.

Population of newly vaccinated persons

(newVax). Population of newly vaccinated persons A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* popGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

NextClade nomenclature

(nextclade). Specifies variant or genetic nomenclature as set out by NextClade. *Part Type:* nomenclatures *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category*

Parts

Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA
Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Normalized geometric mean

(ngmn). Geometric mean, normalized. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Neisseria gonorrhoeae

(nGonorrhoeae). Neisseria gonorrhoeae *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* gonococcusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Ammonium Nitrogen

(nH4N). Ammonium nitrogen concentration, as N. *Part Type:* measurements *Domain:* che *Speciment ID:* siSaSpecimenSet *Compartment Set:*

Parts

waterCompartmentSet *Group*: waterQualityGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

niid_2019-ncov_n sars-cov-2 gene target

(niid19). iid_2019-ncov_n sars-cov-2 gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Nano-molar

(nM). the unit of nanomolar. *Part Type*: units *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: na-Group *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

No quality concerns

(noConcern). A flag to indicate there are no quality concern about the measure or sample. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Sample not labelled

(noLabel). Sample had no label *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

No liquid concentration, liquid recombined with separated solids

(noliquid). No liquid concentration, liquid recombined with separated solids *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*:

Parts

NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Nomenclature

(nomenclature). A classification system to report the measure class. Only applicable to variants, mutations, and diseases. Currently only used for class = variant, mutation, or disease. Valid options are currently restricted to ‘NextClade’, ‘Pangolin’, ‘WHO’, or ‘ICD’. *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Nomenclatures

(nomenclatures). A classification system to report the measure class. See partID = nomenclatureID. *Part Type: partType Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

No rain

(noRain). Qualitative category for the weather measure, specifying no rainfall for a given day. *Part Type*: categories *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

NORMAN

(norman). NORMAN header *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

NORMAN - notes

(normanNote). Norman notes *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Norovirus

(noro). Norovirus. *Part Type*: measurements *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: noro-Grp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

Norovirus G1

(noroG1). Norovirus genogroup 1 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: noroGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Norovirus G2

(noroG2). Norovirus genogroup 2 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: noroGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Norovirus GI Group

(noroGIGrp). A group of measures/methods related to norovirus GI. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: noroGIGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Norovirus GII Group

(noroGIIGrp). A group of measures/methods related to norovirus GII. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: noroGIIGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Norovirus Group

(noroGrp). A group of measures/methods related to noroviruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: noroGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA

Parts

Data Type: varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

No Separation or Concentration

(noSep). Denoted that a sample did not undergo a solids separation protocol, or did not undergo a sample concentration protocol. *Part Type:* categories *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Notes

(notes). A note used to describe details that are not captured in other attributes. There is no recommended structure of a note. Use notes as needed. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 200 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample missing time stamp

(noTime). Sample is missing the autosampler time; incomplete metadata on collection. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Not reported

(nr). A value could have been recorded, however, it was not. Missing value indicator for data that is absent because it was not reported. *Part Type*: missingness *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Not reported, Not applicable missing set

(nrNAMissingnessSet). Not reported, Not applicable missing set. *Part Type*: missingnessSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sarbecovirus-specific N sars-cov-2 gene target

(nSarbec). Sarbecovirus-specific N sars-cov-2 gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

NTC Amplification Detected

(ntcAmp). Quality flag for when the non-template control (NTC) still sees amplification - ie. The NTCs in qPCR show a Ct value less than 40, or NTCs in a ddPCR have 3 or more positive droplets. *Part Type:* qualityIndicators *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* na-Class *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Nephelometric turbidity unit

(ntu). Nephelometric Turbidity Units, a unit used in the measurement of turbidity (see “turbidity” under measureIDs). Nephelometric turbidity

Parts

units (NTU) are based on white light (400, Å–680nm) and 90° incident angle. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://www.sciencedirect.com/topics/engineering/nephelometric-turbidity-unit> *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Nuclisens automated magnetic bead extraction kit

(nucAuto). Nucleic acid extraction performed using the nuclisens automated magnetic bead extraction kit. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

nucleomag (ref. 744220.4) using kingfisher automated instrument

(nucKingfish). nucleomag (ref. 744220.4) using kingfisher automated instrument *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0

Parts

Maximum Length: 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Nuclisens manual magnetic bead extraction kit

(nucManu). Nucleic acid extraction performed using the nuclisens manual magnetic bead extraction kit. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Null

(null). A logical representation of a statement that is neither TRUE nor FALSE. Missing value indicator when the value is neither TRUE nor FALSE. *Part Type:* missingness *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

ISO 3166-1 numeric country code

(numCode). The ISO 3166-1 numeric code, a three-digit country code which is identical to that developed and maintained by the United Nations Statistics Division, with the advantage of script (writing system) in-

Parts

dependence, and hence useful for people or systems using non-Latin scripts. Preprogrammed into dictionary tables, not editable by users. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 3 *Maximum Length*: 3 *Part Status*: active. First released: active. Last updated: 2.1.0.

Number of NTCs per Run

(numNTC). The number of no-template controls included in each PCR instrument run. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

National Wastewater Surveillance System

(nwss). NWSS header *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

NWSS - notes

(nwssNotes). NWSS notes *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

NWSS - process

(nwssProcess). NWSS process *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Water

(nww). Non-wastewater, coming from any kind of water body *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

coronavirus OC43

(oc43). Measure of the amount of coronavirus OC43. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

oc43 spike target

(oc43Mat). Human coronavirus OC43 is used as the recovery efficiency control target. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Ocean, natural water body

(ocean). Ocean, natural water body *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA

Parts

Minimum Length: 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Other Collection depreciated

(oColDep). Other type of collection method. Add description to collectionOther. Deprecated as of version 2, please avoid use. Specify in type, or contact the PHES-ODM research team to add your specific item via a github issue (<https://github.com/Big-Life-Lab/PHES-ODM/issues>), or at phesd_odm@ohri.ca *Part Type:* categories *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

SIL Open Font License 1.1

(ofl11). The licensing for the measure or data set is managed under the SIL Open Font License 1.1. *Part Type:* categories *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/ofl-1.1/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Lab Analysis

(ola). Offline laboratory analysis. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Omicron BA.1

(omicr1). Omicron B.1.1.529 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Omicron BA.2

(omicr2). Omicron BA.2 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Omicron BA.2.75

(omicr275). Omicron BA.2.75 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Omicron BA.4

(omicr4). Omicron BA.4 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Omicron BA.5

(omicr5). Omicron BA.5 *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal

Parts

Maximum Value: seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

SARS-CoV-2 Omicron Variant Group

(omicronGrp). A group of measures/methods related to the SARS-CoV-2 Omicron Variant. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* omicronGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* http://purl.obolibrary.org/obo/NCIT_C169076 *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Onset date

(onsDate). Earliest that symptoms were reported for this case. This data is often not known and reported. In lieu, episode is used. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Online Sensor

(onse). Online sensor An online sensor *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontol-*

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Ontology reference

(ontologyRef). Ontology reference for a part. This field contains a link to an existing ontology reference for the part. ODM content spans several existing ontologies. ODM does not strive to generate a new ontology, rather ODM seeks to harmonize and extend dictionaries for application in environmental and public health surveillance. *Part Type:* partSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 200 *Part Status:* active. First released: active. Last updated: 2.0.0.

Value out of range

(oor). Value is outside of the allowable range for quality control. *Part Type:* qualityIndicators *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Open license not otherwise described

(open). The licensing for the measure or data set is managed under an open license not otherwise described. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Orthophosphates

(ophos). Ortho-phosphate concentration. *Part Type*: measurements *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: waterQualityGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Organization table Shorthand

(or). The abbreviated short name used to reference the The table that contains information about a laboratory. table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar

Parts

Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Other residential building

(orb). Individual residential buildings or institutions not captured in other categories *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

OR Boolean aggregation

(orBoo). “OR” aggregation. If any value in the aggregation is “TRUE” then the OR aggregation is also “TRUE”. If all values in the aggregation is “FALSE” then the OR aggregation is also “FALSE”. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

ORF1a sars-cov-2 gene target

(orf1a). ORF1a sars-cov-2 gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet

Parts

Group: sarsCov2 *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

ORF1ab sars-cov-2 gene target

(orf1ab). ORF1ab sars-cov-2 gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

ORF1b sars-cov-2 gene target

(orf1b). ORF1b sars-cov-2 gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Organism

(organism). Organism class Identify class = ‘organism‘ for when a part identifies an organism and partType = ‘groups‘. Individual measures should be recorded with a class for the specific measure type. i.e. allele, variant, mutation, etc. *Part Type:* classes *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Organization ID

(organizationID). A unique identifier for the organization to which the reporter is affiliated. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* active. First released: active. Last updated: 2.0.0.

Organization table

(organizations). The table that contains information about a laboratory. adapt from version 1 documentation *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* programDescr *Nomenclature:* programDescr

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* naUnitSet
Aggregation Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar
Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA
Minimum Length: 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Organizations table column order

(organizationsOrder). Specifies the order of the columns in a Organizations table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Organization table required headers

(organizationsRequired). Specifies the columns required in a Organizations table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Organization level

(orgLevel). The geographic level of an organization. There are six levels based on International Standard Classification of Administrative Units

Parts

(ISCU). *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: orgLevelSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: nrNAMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Organization level set

(orgLevelSet). Categories of organization levels. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 10 *Part Status*: active. First released: active. Last updated: 2.0.0.

Organization sector

(orgSector). The sector of an organization *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: orgSectorSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: nrNAMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Organization sector set

(orgSectorSet). Categories of organization sectors. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 10 *Part Status*: active. First released: active. Last updated: 2.0.0.

Organization Type

(orgType). Specifies the type or purpose of a given organization. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: orgTypeSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: nrNAMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Organization type set

(orgTypeSet). The set for storing organization types. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*:

Parts

NA Minimum Length: 0 Maximum Length: 10 Part Status: active. First released: active. Last updated: 2.0.0.

Sample origin

(origin). An attribute of a sample specifying the origin. *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Sample Origin set

(originSet). The set for storing the valid categorical values of sample origin. *Part Type: mmaSets Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Orthopox Virus Group

(orthoGrp). A group of measures/methods related to orthopox viruses (excluding variola viruses). *Part Type: groups Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: orthoGrp Class: organism Nomenclature: organism Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: seeUnitAggScale*

Parts

Quality Set: NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Open Software License 3.0

(osl30). The licensing for the measure or data set is managed under the Open Software License 3.0. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/osl-3.0/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Other Collection depreciated

(otco). Other type of collection method. Add description to collectionOther. Deprecated as of version 2, please avoid use. Specify in type, or contact the PHES-ODM research team to add your specific item via a github issue (<https://github.com/Big-Life-Lab/PHES-ODM/issues>), or at phesd_odm@ohri.ca *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Parts

Other aggregation scale

(othAgg). Specifies an aggregation scale that can't be described as either "qualitative" or "quantitative". *Part Type*: aggregationScales *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Other

(other). Other Other category. A categorical response for several variables in version 1. Also accompanied by a free text field. Deprecated in version 2, with common text fields added as new categories in version 2.0.0 *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: depreciated. First released: depreciated. Last updated: 2.0.0.

Other aggregation set

(otherAggrSet). Aggregation set used for unitless measures. *Part Type*: aggregationSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA

Parts

Data Type: varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Other aggregation deprecated

(otherDep). Other aggregation method. Add description to aggregationOther Deprecated as of version 2, please avoid use. Specify in type, or contact the PHES-ODM research team to add your specific item via a github issue (<https://github.com/Big-Life-Lab/PHES-ODM/issues>), or at phesd_odm@ohri.ca *Part Type:* aggregations *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Access to other prov deprecated

(otherProvDep). If this is ‘no’, this data will not be available to other data providers not listed before. If missing, data will be available to other data providers not listed before *Part Type:* attributes *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Parts

Other report table set

(otherReportTableSet). Additional tables that form the full data model.
Part Type: dictSets *Domain:* naDomain *Speciment ID:* saSpecimenSet
Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA
Data Type: varchar *Missingness Set:* NA *Minimum Value:* NA
Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Variants Other

(otherV). Used for reporting variants detected for which a specific measureID doesn't already exist. The ODM team will periodically migrate collected responses in this category into set measureIDs. Please write in an official name for the new variant that was detected, and specify which nomenclature you're using with the nomenclatureID. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* sarsCov2 *Class:* variant *Nomenclature:* variant *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Other Site - sample deprecated

(otsisaDep). Other type of site. Add description to typeOther. Deprecated as of version 2, please avoid use. Specify in type, or contact the PHES-ODM research team to add your specific item via a github

Parts

issue (<https://github.com/Big-Life-Lab/PHES-ODM/issues>), or at phesd_odm@ohri.ca *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Other Site - Site deprecated

(otsisiDep). Other site type. Add description to typeOther *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Other Unit deprecitated

(otunDep). Other measurement of viral copies or wastewater treatment plant parameter. Add description to UnitOther. Deprecated as of version 2, please avoid use. Specify in type, or contact the PHES-ODM research team to add your specific item via a github issue (<https://github.com/Big-Life-Lab/PHES-ODM/issues>), or at phesd_odm@ohri.ca *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data*

Parts

Type: integer *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Value is an outlier

(out). Value is an outlier and may be of questionable quality. *Part Type:* qualityIndicators *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Outbreak

(outb). Measure to indicate outbreak status. Given that when outbreaks occur, full data on case counts may not be available or completely accurate, using this measure indicates that case counts may be approximate. The datetime for the measure helps indicate that start and end periods for an outbreak. *Part Type:* measurements *Domain:* bio *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* mis-cMeas *Class:* outbreak *Nomenclature:* outbreak *Ontology Reference:* NA *Category Set ID:* outbreakSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Outbreak End

(outbEnd). Indicates an outbreak has ended. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Outbreak - on-going

(outbOngoing). Indicates an outbreak is on-going. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Outbreak class

(outbreak). Measures and methods relating to public health outbreaks. *Part Type*: classes *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: outbreak *Nomenclature*: outbreak *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Outbreak set

(outbreakSet). set for the valid values of the outbreak measure. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: outbreakSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Outbreak start

(outbStart). Indicates an outbreak began. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Delta Variant p100I mutation

(p100l). Delta Variant p100l mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: deltaGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnit-Set *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*:

Parts

NA *Maximum Length*: NA *Part Status*: active. First released: active.
Last updated: 2.2.0.

Omicron Variant p13l mutation

(p13L). Omicron Variant p13l mutation *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Delta Variant p2046l mutation

(p2046l). Delta Variant p2046l mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: deltaGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Delta Variant p2287s mutation

(p2287s). Delta Variant p2287s mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: deltaGrp *Class*: mutation *Nomenclature*:

Parts

mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Omicron Variant p3395h mutation

(p3395h). Omicron Variant p3395h mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: omicronGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Delta Variant p681r

(p681r). Delta Variant p681r mutation & gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: deltaGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts Look-up table Shorthand

(pa). The abbreviated short name used to reference the Look up table containing all parts in of the data model. *table Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

polymerase activation

(pAct). Describes the polymerase activation cycle in a PCR process. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Paired Layout

(pairLay). Specifies the paired layout for a sequencing method *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA

Parts

Minimum Length: 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Pangolin nomenclature

(pangolin). Specifies variant or genetic nomenclature as set out by the Phylogenetic Assignment of Named Global Outbreak Lineages (Pangolin). *Part Type:* nomenclatures *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Papilomavirus Group

(papilomavirusGrp). A group of measures/methods related to papilomaviruses. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* papilomavirusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Paraxanthine (PARA)

(para). A metabolite of the common central nervous system stimulant caffeine, measured levels of paraxanthine have been found to be less affected

Parts

by the genetic heterogeneity and population structure than caffeine is, and it may serve as a useful population biomarker in wastewater. *Part Type*: measurements *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Parainfluenza Group

(parafluGrp). A group of measures/methods related to parainfluenza viruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: parafluGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parapoxvirus Orf Virus Spike Target

(parapoxSpike). parapoxvirus // Orf virus is used as the recovery efficiency control target. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Parent dataset ID

(parDatasetID). The datasetID that is a parent to another datasetID. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parent sample ID

(parent). If this sample has been pooled into one big sample for analysis this indicates the sample of the larger pooled sample. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Parent Site ID

(parSiteID). The siteID that is a parent to another siteID; usually the sub-site will be contained in the parentSite. An example would be surface testing in a LTC facility. The LTC facility would be the parentSiteID, and the

Parts

various rooms/surfaces would be the sub-sites, or child-sites. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Part description

(partDesc). The description of the part. Provides description of the part, used for translation. *Part Type*: partSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Part identifier

(partID). The unique identify of any entity within the dictionary. Every entity in the ODM has a partID. The partID must be unique with no duplicates. partIDs are short. partIDs that are constructed by different part attributes can be up 28 characters (check max), but each part attribute should be 1 to 5 characters. partIDs are machine readable, but a knowledgeable user can understand what they represent. partID are used, for example, as a header in an Excel input table. Numbers are allowed but there no other special characters other than ‘‘:’’ is a reserved character that is used to generate a partID using a componet or table attributes. A

Parts

partID for a subComponent is automatically generated using attributes of a component. For example, the partID for the component ‘SARS-CoV-2’ is ‘covid’. ‘Covid’ can have many subComponents including different groups (Covid-19-al, Covid-19-va, ovid-pr (allele, variant or protein) or units and aggregations (i.e. covid-al-N1-mean-cpl representing ovid allele N1, mean observation of viral copies per litre of effluent). A similar approach to naming subComponent is used for naming parts in a reprotTable. *Part Type*: partSupport Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 28 Part Status: active. First released: active. Last updated: 2.0.0.

Part instruction

(partInstr). Additional notes and instructions on how a part is used and/or defined. *Part Type*: partSupport Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 200 Part Status: active. First released: active. Last updated: 2.0.0.

Parts Look-up table

(parts). Look up table containing all parts in of the data model. Contains all parts, including self-referential parts. *Part Type*: tables Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: lookup Nomenclature: lookup Ontology

Parts

Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Parts table column order

(partsOrder). Order of headers in the Parts table. *Part Type: table-Support Domain: naDomain Specimen ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Parts table required headers

(partsRequired). Required headers in the Parts table. *Part Type: table-Support Domain: naDomain Specimen ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Part Support

(partSupport). Parts designed to support the metadata definition of other parts in the parts table. *Part Type: partType Domain: naDomain Spec-*

Parts

iment ID: naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Part types

(partType). Part types describe the purpose or use of the part. Environment data has three main part types: measure (i.e. covN1 viral measures, wastewater flow rate, temperature), method (e.g. how the measure was taken), and attribute (such as a site name). See description of each of the part types within categorySetID = partTypeCatSets. *Part Type:* partType *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Part type input (wide table)

(partTypeInput). The partID for the part type being used in a wide name. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Part type name (wide table)

(partTypeName). The part type being used in a wide name. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Passive Sample - General

(passiveGen). Used to specify a passive sampling method not otherwise specified was used to collect the sample. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Pasteurized sample

(pasteur). Binary indicator for whether a sample was pasteurized as part of its processing. *Part Type:* methods *Domain:* bio *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:*

Parts

NA Category Set ID: booleanSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* qualAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Primary Clarifier Effluent depreciated

(pceDep). Effluent obtained after primary clarifiers. Deprecated in version 2, please do not use. Duplicate of the sampleMat categories - refer to those. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Postal or Zip Code

(pCode). The zip code or postal code for a given address, specifying a specific geographic area. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

qPCR Class

(pcr). Measures and methods relating to qPCR. *Part Type*: classes *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

PCR Action/Activity

(pcrAct). Describes a given PCR cycle for delineating more method information. *Part Type*: methods *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: measGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: pcrActSet *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

PCR action/activity set

(pcrActSet). The set capturing containing all of the valid methods for the PCR activity cycles. *Part Type*: mmaSets *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: pcrActSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum*

Parts

Length: 50 *Part Status:* active. First released: active. Last updated: 2.2.0.

PCR method

(pcrmeth). Description of the PCR method. Description of the PCR method used *Part Type:* methods *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* measGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* pcrSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* active. First released: active. Last updated: 2.0.0.

PCR quality set

(pcrQualitySet). Quality set for PCR measures. *Part Type:* qualityIndSets *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* na-Class *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

PCR sequencingsSelection method

(pcrSeq). Specifies the PCR selection method for sequencing, ie. that a pre-determined primer was used. Primer should be specified if this is selected. *Part Type:* methods *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass

Parts

Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

PCR Method set

(pcrSet). The set capturing containing all of the valid methods for the PCR methodID. *Part Type:* mmaSets *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* pcrSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Primary Clarifier Sludge deprecated

(pcs). Sludge produced by primary clarifiers. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* deprecated. First released: deprecated. Last updated: 2.0.0.

Primary clarifier effluent

(pEfflu). Effluent obtained after primary clarifiers *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* wa-

Parts

*terCompartmentSet Group: colGrp Class: naClass Nomenclature: na-
Class Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet
Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type:
varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA
Minimum Length: 0 Maximum Length: 30 Part Status: active. First re-
leased: active. Last updated: 2.0.0.*

Polyethyleneglycol (PEG) precipitation

(peg). Peg precipitation *Part Type: categories Domain: che Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: proc-
Grp Class: naClass Nomenclature: naClass Ontology Reference: NA Cat-
egory Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality
Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA
Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maxi-
mum Length: 30 Part Status: active. First released: active. Last updated:
2.0.0.*

Percent

(perc). Percentage. *Part Type: units Domain: allDo Speciment ID: anySpecimenSet Compartment Set: anyCompartmentSet Group: naGroup
Class: naClass Nomenclature: naClass Ontology Reference: NA Category
Set ID: NA Unit Set: naUnitSet Aggregation Scale: quantAggScale Quality
Set: NA Reference Link: NA Data Type: float Missingness Set: NA Min-
imum Value: 0 Maximum Value: NA Minimum Length: NA Maximum
Length: NA Part Status: active. First released: active. Last updated:
2.0.0.*

Percent recovery

(percRec). Percent of the surrogate recovery for a recovery efficiency control assay. Use this for reporting the results of any recovery control assay. *Part Type*: measurements *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 100 *Part Status*: active. First released: active. Last updated: 2.0.0.

pH

(ph). pH measurement *Part Type*: measurements *Domain*: phy *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: waterQualityGrp *Class*: pHClass *Nomenclature*: pHClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: 1 *Maximum Value*: 14 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Access to phac

(phac). If this is ‘no’, the data will not be available to employees of the Public Health Agency of Canada - PHAC. If missing, data will be available to employees of the Public Health Agency of Canada - PHAC. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: booleanSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA

Parts

Data Type: boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

PHAGE

(phage). PHAGE header *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Bacteriophage Group

(phageGrp). A group of measures/methods related to bacteriophages. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* phageGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

PHAGE - notes

(phageNotes). PHAGE notes *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet

Parts

Group: naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

pH class

(pHClass). Measures and methods relating to pH. *Part Type:* classes *Domain:* che *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartimentSet *Group:* naGroup *Class:* pHClass *Nomenclature:* pHClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* unitlessUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Phenol chloroform

(phenCl). Nucleic acid extraction performed using phenol chloroform. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartimentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Pseudomonas virus phi6

(phi6). Measure of the amount of pseudomonas virus phi6. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: phageGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

phi6 spike target

(phi6Mat). Pseudomonas virus phi6is used as the recovery efficiency control target. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Country national phone prefix

(phone). International dialing code for the country. Preprogrammed into dictionary tables, not editable by users. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum*

Length: 0 *Maximum Length:* 75 *Part Status:* active. First released: active.
Last updated: 2.1.0.

Total phosphorous

(phos). Total phosphorous *Part Type:* measurements *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* miscMeas *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Total Phosphates

(phostot). Total phosphates *Part Type:* measurements *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* miscMeas *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

PHRED quality score

(phred). PHRED Quality Score For Sequencing *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* sequence *Nomenclature:* se

Parts

quence *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneti-
cUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingness-
Set *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released:
active. Last updated: 2.0.0.

Physical property

(phy). A physical property or object not characterized by life or chemistry. *Part Type*: domains *Domain*: phy *Speciment ID*: anySpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Physical class

(physical). Measures and methods related to generic physical properties. *Part Type*: classes *Domain*: phy *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: physical *Nomenclature*: physical *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: volumeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Primary key

(pK). Primary key for a table. All report tables have a primary key. Each row in a report table has unique identifier recorded in the primary key.
Part Type: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet
Compartment Set: naCompartmentSet *Group*: naGroup *Class*: naClass
Nomenclature: naClass *Ontology Reference*: NA *Category Set ID*: NA
Unit Set: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA
Maximum Value: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Plasmodium

(plasmodium). Plasmodium *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: malariaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

PMMoV- and flow-normalized mean

(pmFloMean). Mean measure normalized to amount of PMMoV and wastewater flow. Mostly used for reporting specific alleles (N1, N2, E, etc.) *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*:

Parts

NA Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

PMMoV Group

(pmmovGrp). A group of measures/methods related to the Pepper Mild Mottle Virus (PMMoV). Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* pmmovGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

PMMoV-normalized mean

(pmmovNorm). Mean measure normalized to amount of PMMoV. Mostly used for reporting specific alleles (N1, N2, E, etc.) *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

PMMV forward primer (ABI)

(pmmvABIFor). PMMV forward primer (ABI) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: pmmovGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

PMMV probe (ABI)

(pmmvABIProbe). PMMV probe (ABI) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: pmmovGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

PMMV reverse primer (ABI)

(pmmvABIRev). PMMV reverse primer (ABI) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: pmmovGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Polygon table Shorthand

(po). The abbreviated short name used to reference the The table that contains information about the geometry of a geographic area. table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Post-Grit depreciated

(pogr). Raw wastewater after a treatment plant's headworks. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: depreciated. First released: depreciated. Last updated: 2.0.0.

Policy and political sector or organization

(policy). Describes organizations whose core focus is on policy or political activity. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Poliovirus Group

(polioGrp). A group of measures/methods related to polioviruses. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* polioGrp *Class:* organism *Nomenclature:* organ-ism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Polygon ID

(polygonID). Unique identifier for the polygon. A polygon is a geographic are representing the capment area of an environmental sample. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 10 *Part Status:* active. First released: active. Last updated: 2.0.0.

Polygon table

(polygons). The table that contains information about the geometry of a geographic area. *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup

Parts

Class: programDescr *Nomenclature:* programDescr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Polygons table column order

(polygonsOrder). Specifies the order of the columns in a Polygons table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Polygon table required headers

(polygonsRequired). Specifies the columns required in a Polygons table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Polygon Population

(polyPop). An attribute of a polygon, which specifies the population of that polygon. A rough estimate of the number of human residents.
Part Type: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet
Compartment Set: naCompartmentSet *Group*: naGroup *Class*: naClass
Nomenclature: naClass *Ontology Reference*: NA *Category Set ID*: NA
Unit Set: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Pooled

(pooled). Is this a pooled sample, and therefore composed of multiple child samples obtained at different sites *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: booleanSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: boolean *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Population

(pop). An measure or observation for a geographic area or population. Examples include human compartment measures such as case numbers, hospitalization rates for diseases or surface or air compartment measures such as snow coverage or ambient temperature. *Part Type*: specimens

Parts

Domain: naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Type of date for case reporting depreciated

(popDateTypeDep). Type of date used for confirmed cases. Typically, report or episode are reported. Onset and test date is not usually reported within aggregate data. *Part Type:* attributes *Domain:* bio *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* methodConcSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Population equivalents

(popEq). A unit for measuring of design capacity for wastewater treatment plants, represented as the approximate amount of water a signle person would use. *Part Type:* units *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Population group

(popGrp). A group of measures/methods related to population-level factors. Examples might be case numbers, hospitalization rates, etc. *Part Type*: groups *Domain*: allDo *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: popGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Population Served

(popServ). An attribute of a site, which specifies the population of/population served by a given site. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Population unit set

(populationUnitSet). Unit set for hospital-related measurements. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: humanCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: populationUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Port or Harbour

(port). A harbor is any sheltered body of water where boats or ships may moor or anchor. A port is an installation that has been built around a harbor with facilities for loading and unloading such vessels. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Population or sample set

(poSaSpecimenSet). A specimen set that inculdes population or sample specimen. *Part Type:* specimenSets *Domain:* naDomain *Speciment ID:* poSaSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Population or site set

(poSiSpecimenSet). A specimen set that inculdes population or site specimen. *Part Type*: specimenSets *Domain*: naDomain *Speciment ID*: poSiSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Population specimen set

(poSpecimenSet). A specimen set that inculdes only a population specimen. *Part Type*: specimenSets *Domain*: naDomain *Speciment ID*: poSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

PostgreSQL License

(postgreSQL). The licensing for the measure or data set is managed under the PostgreSQL License. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/postgresql/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum*

Parts

Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active.
First released: active. Last updated: 2.2.0.

Percent positive

(pp). Percent positive of sample measures. Can use for Moore swabs, etc.
Part Type: units *Domain:* bio *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* 100 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

parts per million

(ppm). Parts per million. *Part Type:* units *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

PMMoV-CP

(ppmv). Pepper mild mottle virus capsid protein gene region *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* pmmovGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:*

Parts

NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Percent positivity rate

(pprt). Percent positivity rate of tests conducted within a day in a given region. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Percent primary sludge

(pps). Percentage of total solids, for primary sludge. *Part Type*: units *Domain*: phy *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 100 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Protocol relationships table Shorthand

(pr). The abbreviated short name used to reference the The table that contains the organizational information and details (such as order) about a given protocol, recorded as a series of protocol steps (protocolSteps). table

Parts

Part Type: shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet
Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Precipitation class

(precipitation). Measures and methods related to precipitation. *Part Type:* classes *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* precipitation *Nomenclature:* precipitation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* precipitationUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Precipitation unit set

(precipitationUnitSet). Unit set for percipitation measurements. *Part Type:* unitSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* precipitationUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Storage temperature prior to concentration

(preConcTemp). The temperature at which a sample was stored between collection and concentration. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: temperatureUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: -100 *Maximum Value*: 100 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Storage time prior to concentration

(preConcTime). Length of time for which a sample is stored between collection and concentration. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: timeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Storage temperature prior to extraction

(preExtractTemp). The temperature at which a sample was stored between concentration and extraction. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: temperatureUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA

Parts

Reference Link: NA *Data Type:* integer *Missingness Set:* genMissingnessSet *Minimum Value:* -100 *Maximum Value:* 100 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Storage time prior to extraction

(preExtractTime). Length of time for which a sample is stored between concentration and extraction. *Part Type:* measurements *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* timeUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* genMissingnessSet *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Pretreatment

(pretreat). Was the sample chemically treated in anyway with the addition of stabilizers or other Pretrement method can be describe using a method. See methodID. *Part Type:* measurements *Domain:* allDo *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* active. First released: active. Last updated: 2.0.0.

Genetic primer

(primer). Method ID used for indicating the primer used for a PCR or sequencing assay. *Part Type*: methods *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: measGrp *Class*: sequence *Nomenclature*: sequence *Ontology Reference*: NA *Category Set ID*: primerSet *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Genetic primer set

(primerSet). The set for genetic primers used in sequencing or PCR assays. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: primerSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Private sector

(priv). The category of organization type used for private sector or non-profit groups that are not otherwise captured by the academic category. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 10 *Part Status:* active. First released: active. Last updated: 2.0.0.

Private data - not for dissemination

(private). The measure or data set is private data - not for dissemination. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Protocols table Shorthand

(pro). The abbreviated short name used to reference the The table for protocols. table *Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Processing group

(procGrp). A group of measures/methods related to processing samples for analysis. *Part Type:* groups *Domain:* allDo *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:*

Parts

NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Program description tables

(programDescr). Tables used to describe surveillance and testing programs. Program description tables record metadata on the organizations, locations, and protocols. Information include the name, location, and other contact information. These tables are usually completed once and they are updated only when contact information changes. *Part Type*: classes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: programDescr *Nomenclature*: programDescr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

promega automated tna kit

(promAuto). Nucleic acid extraction performed using the promega automated tna kit. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

promega wastewater large volume tna capture kit

(promegaLVTNA). promega wastewater large volume tna capture kit *Part Type*: categories *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

promega ht tna kit

(promHt). Nucleic acid extraction performed using the promega ht tna kit. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

promega manual tna kit

(promManu). Nucleic acid extraction performed using the promega manual tna kit. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

promega wastewater large volume tna capture kit

(promWW). Nucleic acid extraction performed using the promega wastewater large volume tna capture kit. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Proportion of total

(prop). Proportion as a precent of total. *Part Type*: units *Domain*: naDomain *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 100 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Proportion of variant in sample

(propV). Proportion of a variant as percent of total variants. *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 100

Parts

Minimum Length: NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Proteins class

(protein). Measures and methods related to proteins. *Part Type:* classes *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* naGroup *Class:* protein *Nomenclature:* protein *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol ID

(protocolID). A unique identifier for a given protocol. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnit-Set *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol ID container

(protocolIDContainer). Unique identifier for the protocol and the steps and other protocols that make it up. Protocol ID Container in populated by a protocolID (partID = protocolID) *Part Type:* attributes *Domain:*

naDomain Speciment ID: naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol ID object

(protocolIDObj). The object of the relationship between one protocol and another protocol or step, within a given protocol ID container. Populate this field using Protocol ID (partID = protocolID). Together with ‘protocolIDSub’ or ‘stepIDSub’ and ‘relationshipID’, the protocol relationship is defined as: [protocolIDSubject or stepIDSubject] [relationshipID] [protocolIDObject or stepIDObject]. Ex: stepIDSubject precedes protocolIDObject. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol ID subject

(protocolIDSub). The subject of the relationship between one protocol and another protocol or step, within a given protocol ID container. Populate this field using Protocol ID (partID = protocolID). Together with ‘protocolIDObj’ or ‘stepIDObj’ and ‘relationshipID’ the row of ‘protocolRelationships’ should say: [protocolIDSubject or stepIDSubject] [relationshipID]

Parts

[protocolIDObject or stepIDObject]. Ex: stepIDSubject precedes protocolIDObject. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Protocol relationships table

(protocolRelationships). The table that contains the organizational information and details (such as order) about a given protocol, recorded as a series of protocol steps (protocolSteps). Protocols are a group of related protocol steps. For example a protocol step can describe a sample concentration, extraction, inhibition or a measurement. Protocols can include both methodID (a procedure) and measureIDs (a measure). An example of a method is centrifugation; where the centrifugation rotation speed is described as a measure. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: programDescr *Nomenclature*: programDescr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Synthetic ID for the protocolRelationships table

(protocolRelationshipsID). A unique, autoincremental ID generated to produce a unique identifier and primary key for each row of the protocolRela-

tionships table. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 50 *Part Status*: active. First released: active. Last updated: 2.2.0.

Protocol relationships table column order

(protocolRelationshipsOrder). Specifies the order of the columns in the Protocol Organization table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Protocol Relationship table required headers

(protocolRelationshipsRequired). Specifies the columns required in the Protocol Organization table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Protocol Relationships set

(protocolRelSet). set for valid values of relationshipID in the protocolRelationships table. Use only for protocolRelationships table relationshipID. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* protocolRelSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocols table

(protocols). The table for protocols. *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* programDescr *Nomenclature:* programDescr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocols table column order

(protocolsOrder). Specifies the order of the columns in the Protocols table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:*

Parts

1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Protocols table required headers

(protocolsRequired). Specifies the columns required in the Protocols table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Protocol steps table

(protocolSteps). The table for collecting metadata on individual steps in a protocol, methodological process, or assay. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: programDescr *Nomenclature*: programDescr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Protocol steps table column order

(protocolStepsOrder). Specifies the order of the columns in a Protocol Steps table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category*

Parts

Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA
Reference Link: NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol steps table required headers

(protocolStepsRequired). Specifies the columns required in a Protocol Steps table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol table set

(protocolTableSet). Tables holding information on the methods used for sample collection or measurement. *Part Type:* dictSets *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol version

(protocolVersion). Specifies the version of a method set. Version of the method set. Semantic versioning is recommended. *Part Type:* attributes

Parts

Domain: naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* genMissingnessSet *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Access to prov ha

(provHA). If this is ‘no’, this data will not be available to provincial health authorities. If missing, data will be available to provincial health authorities. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Provisional report

(provisional). A provisional or interm report. Use for measurement that are not yet finalized. Typically this purpose is not publicly reported. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Protocol steps table Shorthand

(ps). The abbreviated short name used to reference the The table for collecting metadata on individual steps in a protocol, methodological process, or assay. *table Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Pseudomonas

(pseudomonas). Pseudomonas *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* pseudomonasGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Pseudomonas Group

(pseudomonasGrp). A group of measures/methods related to pseudomonas bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* pseudomonasGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale

Parts

Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.

Primary clarifier sludge

(pSludge). Sludge produced by primary clarifiers *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Pumping station

(pStat). Pumping station *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Post-grit

(pstGrit). Raw wastewater after a treatment plant's headworks (post grit or removal of large solids at a treatment plant but prior to a primary

Parts

clarifier) *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Pretreatment description - deprecated

(ptDescDep). If preTreatment then describe the treatment that was performed. Deprecated in version 2, please do not use. Use pretreatment methodID and specify further in summary and/or notes, if necessary. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 255 *Part Status*: **deprecated**. First released: deprecated. Last updated: 2.0.0.

Number of positive tests

(ptot). Number of positive tests conducted within a day in a given region. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Public health agency

(pubHealth). Public health agency. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Access to public

(public). If this is ‘no’, this data will not be available to the public. If missing, data will be available to the public. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Puro virus

(puro). Measure of the amount of puro virus. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* lentiGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA

Parts

Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Puro virus spike target

(puroMat). Puro Virus is used as the recovery efficiency control target. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Purpose

(purpose). The reason the measure or sample was taken. See allowed categories: report, quality control, validation study, test *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* purposeSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Purpose set

(purposeSet). Purpose set for a sample or measure. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* purposeSet *Unit Set:* naUnitSet

Parts

Aggregation Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Poliovirus type 2

(pv2). Poliovirus type 2 *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* polioGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

q19e omicron-variant gene target

(q19e). q19e omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

q493r omicron-variant gene target

(q493r). q493r omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet

Parts

mentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

q498r omicron-variant gene target

(q498r). q498r omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

q954h omicron-variant gene target

(q954h). q954h omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Quality assurance method

(qaqc). Quality assurance and quality control method. Description of the quality control steps taken *Part Type*: methods *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 100 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Quality concerns

(qf1). A flag to indicate there is a quality concern, not otherwise specified. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

qiagen allprep dna/rna kit

(qgDNARNA). Nucleic acid extraction performed using the qiagen allprep dna/rna kit. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*:

Parts

NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

qiagen digital PCR

(qgDpcr). Describes a PCR analysis done using Qiagen's digital PCR technology. *Part Type: categories Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

qiagen ez1 virus mini kit v2.0

(qgEz1). Nucleic acid extraction performed using the qiagen ez1 virus mini kit v2.0. *Part Type: categories Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

qiagen allprep powerfecal dna/rna kit

(qgPwrFecal). Nucleic acid extraction performed using the qiagen allprep powerfecal dna/rna kit. *Part Type: categories Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA*

Parts

Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

qiagen allprep powerviral dna/rna kit

(qgPwrViral). Nucleic acid extraction performed using the qiagen allprep powerviral dna/rna kit. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

qiagen powerwater kit

(qgPwrWtr). Nucleic acid extraction performed using the qiagen powerwater kit. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

qiagen qiaamp buffers with epoch columns

(qgQiAmp). Nucleic acid extraction performed using the qiagen qiaamp buffers with epoch columns. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA

Parts

Category Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

qiagen rneasy kit

(qgRneasy). Nucleic acid extraction performed using the qiagen rneasy kit. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

qiagen rneasy powermicrobiome kit

(qgRneasyPwr). Nucleic acid extraction performed using the qiagen rneasy powermicrobiome kit. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

qiagen allprep dna/rna kit

(qiAllprep). qiagen allprep dna/rna kit *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet

Parts

Group: procGrp *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

qiagen qiaamp dsp viral rna mini kit

(qiampDSP). qiagen qiaamp dsp viral rna mini kit *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Quantitative PCR

(qpcr). Real-time PCR, also called ‘quantAggScale’ PCR *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Quality reports table Shorthand

(qr). The abbreviated short name used to reference the The table for recording the various quality metrics and indicators for samples and measures. *table Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Qualitative

(qualAggScale). The qualitative aggregation scale. *Part Type:* aggregationScales *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* qualAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Quality control

(qualityControl). A measure or sample taken for the purpose of quality control. Measures with this category are take to assess quality control. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA

Parts

Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Quality flag

(qualityFlag). A field for reporting any quality concerns - or lack thereof - for a sample or measure. Types of quality flag vary on context; please see the qualityFlagSet to be confirm. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Quality indicators

(qualityIndicators). A measure of the quality of a reported value or sample. Only used for the dictionary entries of parts. *Part Type:* partType *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Quality Indicator Set Header

(qualityIndSet). The quality set that corresponds to a given part. Only applicable for samples and measures. *Part Type:* attributes *Domain:*

Parts

naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Quality indicator sets

(qualityIndSets). Sets of quality indicators or measures. For example, PCR have a quality measure set. *Part Type: partType Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: anyCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 15 Part Status: active. First released: active. Last updated: 2.0.0.*

Quality report ID

(qualityReportID). A unique identifier for a given quality report. *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Quality reports table

(qualityReports). The table for recording the various quality metrics and indicators for samples and measures. *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* results *Nomenclature:* results *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Quality reports table column order

(qualityReportsOrder). Specifies the order of the columns in the Quality Reports table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Quality report table required headers

(qualityReportsRequired). Specifies the columns required in the Quality Reports table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Quantitative

(quantAggScale). The “quantAggScale” aggregation scale. *Part Type:* aggregationScales *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

R squared

(r2). R-squared value of the calibration curve. Used for storing calibration curve information, potentially also applicable for other curve types. *Part Type:* units *Domain:* allDo *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* standardCurve *Nomenclature:* standardCurve *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

r203m delta-variant gene target

(r203m). r203m delta-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompart-

Parts

mentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

R346T Mutation

(r346t). The FLiRT/SLip variant mutation R346T. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flirtSLipGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Raindance digital PCR

(rainDpcr). Describes a PCR analysis done using Raindance's digital PCR technology. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Rainy

(rainy). Qualitative category for the weather measure, specifying a rainy day. *Part Type*: categories *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Random sequencing selection method

(ranSeq). Specifies the random selection method for sequencing No primer set should be used if this is selected. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Ratio

(ratio). Ratio (unitless) Report as a real number or fraction. i.e 10:2 ratio is reported as 5. The specifics of the ratio (the numerator and the denominator) are described in the measure. *Part Type*: units *Domain*: naDomain *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float

Parts

Missingness Set: NA Minimum Value: 0 Maximum Value: NA Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.

Raw wastewater

(raws). Raw wastes water sample *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: procGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Raw sewage at site

(rawWW). Wastewater without any form of treatment *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Raw sewage downstream from a site

(rawWWdown). Downstream from a site. See partType = rawWWup. *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA*

Parts

Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Raw sewage upstream from a site

(rawWWUp). Upstream from a site. Used when there is not direct access to a site's wastewater inconjuctiion with downstream sample. For example, if the site is a long-term care home, but ther is not access to the building or property cleanout. Use two sameple, one sample upstream and one sample downstream. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

IP2 rdrp sars-cov-2 gene target

(rdrpIP2). IP2 rdrp sars-cov-2 gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

IP4 rdrp sars-cov-2 gene target

(rdrpIP4). IP4 rdrp sars-cov-2 gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Date sample received

(recDate). The date the sample was received at the laboratory for analysis. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: datetime *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Recovered patients

(recov). Units for describing a population measure of patients who have recovered from a given disease. Unit for a population or disease measure to explain population-level clinical effects. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer

Parts

Missingness Set: NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Reference link

(refLink). Link to the reference material for a part. May link to literature on a method, measure, etc. Link to standard operating procedure for a measure or part. Part reference is a reference to a technical document that describes the part in detail. The reference could be a URL, DOI, or reference to a technical report. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 255 *Part Status:* active. First released: active. Last updated: 2.0.0.

Regular

(regular). A measure or sample taken for surveillance or epidemiology. A ‘regular’ measure is the default. Missing data will be recoded to this purpose. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Regular reports table set

(regularReportTableSet). Tables used for daily reporting of new measurements and information on sample collection. *Part Type*: dictSets *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Relationship between entities

(relationshipID). Attribute for specifying the relationship between a sample subject and object. Together with ‘sampleIDSubject’ and ‘sampleRelID’, a row of the ‘sampleRelationships’ should say: [sampleIDSubject] is a [sampleID] of [sampleIDObject] *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: relSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Relative humidity

(relHum). The unit of relative humidity, or the air-water mixture. The ratio of the partial pressure of water vapor in the mixture to the equilibrium

Parts

vapor pressure of water over a flat surface. of pure water at a given temperature. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat *Class*: humid *Nomenclature*: humid *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: relHumidUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Relative humidity unit set

(relHumidUnitSet). Unit set for relative humidity measurements. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: relHumidUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

General Relationship Set

(relSet). set for valid values of relationshipID across all fields and tables. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: relSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Representative grab sample

(repGrab). A single large representative grab sample. Deprecated in version 2, please do not use. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Replicate Type set

(replicateSet). The set for storing valid categorical values of replicate type. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: replicateSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

replicate number

(repNum). The replicate number for a Ct or Cq value - used for specifying out a protocol standard curve. Only applies and used for aggregated standard curves, or curves that are used across multiple plates. Otherwise, these details can be captured in a measure report and specified by measure index. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardCurve *Nomenclature*: standardCurve *Ontology Reference*:

Parts

NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: see-UnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Primary reporting authority ID

(repOrg1). The primary or most responsible authority for routine surveillance reports or findings, or where the site is located. Use the ‘organizations’ table to describe attributes such as the name and address of the organization. Use ‘orgType’, ‘orgLevel’ and ‘orgSector’ to describe additional attributes. For example, whether the organization is a government agency (‘orgType’), local (‘orgLevel’), or public health (‘orgSector’). If the attributes are not specified, the default is version 1.1.0 ‘publicHealthDepartment’ defined as ‘The public health department or region where the site is located. See also ‘healthReg’ if there is a separate regional health care delivery authority.’ *Part Type*: attributes *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Secondary reporting authority ID

(repOrg2). The secondary, additional or alternative authority for routine surveillance reports or findings, or where the site is located. Use the ‘organizations’ table to describe attributes such as the name and address of the

organization. Use ‘orgType’, ‘orgLevel’ and ‘orgSector’ to describe additional attributes. For example, whether the organization is a government agency (‘orgType’), local (‘orgLevel’), or public health (‘orgSector’). If the attributes are not specified, the default is version 1.1.0 ‘healthRegion’, The health planning authority where the site is located. defined as ‘The public health department or region where the site is located.’ *Part Type:* attributes *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Reportable

(reportable). Flag for whether a measure is reportable or not, based on confidence in the measure and methods applied. *Part Type:* attributes *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* boolean *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 10 *Part Status:* active. First released: active. Last updated: 2.1.0.

Report date

(reportDate). The date a measure was reported. This date is the first date the laboratory or entity reported the measure findings to the public health or other entity who ordered the measure or is responsible for action. Use the analyses end date if the measure is part of a research study

Parts

or other purpose that does not have a reporting entity. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: datetime *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Reporter ID deprecated

(reporterIDDep). Unique identifier for the person or organization that is reporting the data. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Reporter table deprecated

(reportersDep). The table that contains information about a reporter of a sample, method, measure, or attribute. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Report table input (wide table)

(reportTableInput). The short name for the listed source table. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: shrtNameSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Report table name (wide table)

(reportTableName). The report table that the wide name calls from. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Replicate Type

(repType). Attirbute of a sample, specifying whether the sample is unique, or a replicate. And if it is a replicate, what type of replicate is it? *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: replicateSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0

Parts

Maximum Length: 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Resuspend COSCa filter collection

(resCosca). Nucleic acid extraction via resuspension of a sample collected using the COSCa ball method. See partID = cosca for additional details. *Part Type:* categories *Domain:* bio *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 10 *Part Status:* active. First released: active. Last updated: 2.0.0.

Research sector or organization

(research). Describes organizations whose focus is on research generation. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Results tables

(results). Tables used to record samples, measures and quality reports. These tables are updated whenever a new sample is taken or a measure is reported. Quality reports are used to report quality assurance and quality control for samples and measures. *Part Type:* classes *Domain:*

naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: results *Nomenclature*: results *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Resuspension method

(resuspension). Describes the method used for resuspending material. *Part Type*: methods *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: resusSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Resuspension method set

(resusSet). The set to describe valid categorical values for the resuspension method. *Part Type*: mmaSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: resusSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 50 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Retained Element

(retainedElement). The element retained after centrifugation, filtration, solid separation, etc. *Part Type*: methods *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Retained Element Set

(retElSet). The set for enumerating the valid possible values of the retained element method. *Part Type*: mmaSets *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 50 *Part Status*: active. First released: active. Last updated: 2.2.0.

Retention pond

(retPond). Retention pond *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*:

Parts

0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Rickettsia

(rickettsia). Rickettsia *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rickettsiaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Rickettsia Group

(rickettsiaGrp). A group of measures/methods related to rickettsia parasites. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rickettsiaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

River, natural water body

(river). River, natural water body *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation*

Parts

Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

RNA Template

(rna). Ribonucleic Acid (RNA) template is used for PCR or sequencing work. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Ribonuclease P (RNase P)

(rnaseP). Ribonuclease P (RNase P) (usually measured as a human fecal indicator) *Part Type:* measurements *Domain:* bio *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Role of contact

(role). Specifies the organizational role of a given contact. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment*

Parts

Set: naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Rotavirus

(rotavirus). Rotavirus *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* rotavirusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Rotavirus Group

(rotavirusGrp). A group of measures/methods related to rotaviruses. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* rotavirusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Rate per 100,000

(rP100). Units for describing a population measure of a rate of case incidence per 100,000 people of a given disease. Unit for a population or disease measure to explain population-level clinical effects. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Revolutions per minute (RPM)

(rpm). RPM stands for “Revolutions per minute.” This is how centrifuge manufacturers generally describe how fast the centrifuge is going. The rotor, regardless of its size, is revolving at that rate. *Part Type*: units *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Raw post-pasteurized wastewater

(rppw). Raw wastewater sample post-pasteurization *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: na-Class *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet

Parts

Aggregation Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Respiratory syncytial virus A and B combined

(rsvAB). Human Respiratory Syncytial Virus Type A (RSV A) and Type B (RSV B). *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* rsvGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* https://ontobee.org/ontology/NCIT?iri=http://purl.obolibrary.org/obo/NCIT_C184696 *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.3.

Respiratory syncytial virus A

(rsvAMe). Human Respiratory Syncytial Virus Type A (RSV A). Refer to Group = ‘rsv‘ and ‘rsv‘ for measure that are apply to either RSV A or RSV B. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* rsvGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* https://ontobee.org/ontology/NCIT?iri=http://purl.obolibrary.org/obo/NCIT_C184696 *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.3.

Parts

Respiratory syncytial virus B

(rsvB). Human Respiratory Syncytial Virus Type B (RSV B). Refer to Group = ‘rsv‘ and ‘rsv‘ for measure that are apply to either RSV A or RSV B. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rsvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: https://ontobee.org/ontology/NCIT?iri=http://purl.obolibrary.org/obo/NCIT_C184697 *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.3.

Respiratory syncytial virus (RSV) Group

(rsvGrp). Human Respiratory Syncytial virus (RSV). Refer to Group = ‘rsvA‘ and ‘rsvB‘ for measure that are specific to RSV A or RSV B, respectively. *Part Type*: groups *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rsv-Grp *Class*: organism *Nomenclature*: organism *Ontology Reference*: http://purl.obolibrary.org/obo/NCIT_C14267 *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.2.

Respiratory syncytial virus

(rsvMe). Human Respiratory Syncytial virus (RSV), generic measure. Refer to Group = ‘rsvA‘ and ‘rsvB‘ for measure that are specific to RSV

A or RSV B, respectively. *Part Type*: measurements *Domain*: bio *Specimen ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rsvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: http://purl.obolibrary.org/obo/NCIT_C14267 *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.2.

RSV N-gene

(rsvN). Human Respiratory syncytial Virus, N-gene region. *Part Type*: measurements *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rsvGrp *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.1.3.

reverse transcription

(rt). Describes the reverse transcription cycle in a PCR process. *Part Type*: categories *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Rubella

(rubella). Rubella *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rubella-Grp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Rubella Group

(rubellaGrp). A group of measures/methods related to the rubella virus. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: rubellaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

s2083i omicron-variant gene target

(s2083i). s2083i omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA

Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

s371l omicron-variant gene target

(s371l). s371l omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

s373p omicron-variant gene target

(s373p). s373p omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

s375f omicron-variant gene target

(s375f). s375f omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *On-*

Parts

tology Reference: NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

s477n omicron-variant gene target

(s477n). s477n omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample

(sa). A measure made on a compartment or property from a sample of a substance. *Part Type:* specimens *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Salmonella

(salmonella). *Salmonella Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: salmonellaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Salmonella Group

(salmonellaGrp). A group of measures/methods related to salmonella bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: salmonellaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Sample material

(saMaterial). Type of sample. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: sampleMatSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum*

Parts

Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active.
First released: active. Last updated: 2.0.0.

Sample concentrate

(samConc). Sample concentrate. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample ID

(sampleID). Unique identifier for a sample. Suggestion:siteID-date-index. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample ID object

(sampleIDObject). Populated by ‘sampleID‘ - this specifies the object of a sample relationship. Use ‘sampleID‘ for this field. Together with ‘sampleIDSub‘ and ‘relationshipID‘ the row of the ‘sampleRelationships‘ should say: [sampleIDSub] is a[relationshipID] of [sampleIDObject]
Part Type: attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet

Parts

Compartment Set: naCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample ID subject

(sampleIDSubject). Populated by ‘sampleID’ - this specifies the subject of a sample relationship. Use ‘sampleID’ for this field. Together with ‘sampleIDSub’ and ‘relationshipID’ the row of the ‘sampleRelationships’ should say: [sampleIDSubject] is a[relationshipID] of [sampleIDObject]
Part Type: attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample material set

(sampleMatSet). set for the types of material that can be found in a sample. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* sampleMatSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Sample quality set

(sampleQualitySet). Quality set for a sample. *Part Type*: qualityIndSets *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: any-CompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Sample relationships table

(sampleRelationships). Table for recording the relationships between samples. Samples can be pooled or split. The sample relationships table holds information on parent-child relationships between samples, and allow for tracking sample lineage for single and pooled samples. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: na-CompartmentSet *Group*: naGroup *Class*: results *Nomenclature*: results *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Synthetic ID for the sampleRelationships table

(sampleRelationshipsID). A unique, autoincremental ID generated to produce a unique identifier and primary key for each row of the sampleRelationships table. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category*

Parts

Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA
Reference Link: NA *Data Type:* varchar *Missingness Set:* genMissingnessSet
Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0
Maximum Length: 50 *Part Status:* active. First released: active. Last updated: 2.2.0.

Sample relationships table column order

(sampleRelationshipsOrder). Specifies the order of the columns in a Sample Relationships table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample relationships table required headers

(sampleRelationshipsRequired). Specifies the columns required in a Sample Relationships table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Sample relationships set

(sampleRelSet). set for valid values of relationshipID in the sampleRelationships table. Use only for sampleRelationships table relationshipID. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* sampleRelSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample report table

(samples). The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. Samples can be combined, split, stored and reused. The ‘Sample relationships’ (sampleRelationships) is used to describe the relationships between samples. *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* results *Nomenclature:* results *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample shed

(sampleShed). A geographic area, physical space, or structure. A sample is taken from a sampleshed for a representative measurement of a

substance(s). Examples: Airplane, Long-term care home, Neighbourhood, University campus, Municipality *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: shedSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Samples table column order

(samplesOrder). Specifies the order of the columns in a Samples table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Sample table required headers

(samplesRequired). Specifies the columns required in a Samples table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Collection other deprecated

(sampleTypeOther). Description for other type of method not listed in collection. depreciated. *Part Type*: methods *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 100 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Sapovirus

(sapovirus). Sapovirus *Part Type*: measurements *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sapovirusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Sapovirus Group

(sapovirusGrp). A group of measures/methods related to sapoviruses. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sapovirusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference*

Parts

Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Sample relationships table Shorthand

(sar). The abbreviated short name used to reference the Table for recording the relationships between samples. table *Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

SARS-CoV-2

(sarsCov2). A group of measures/methods related to the SARS-CoV-2 virus. SARS-CoV-2 measures have the following classes: proteins, alleles, variants, mutations, diseases. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* http://purl.obolibrary.org/obo/NCIT_C169076 *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Sample report table Shorthand

(sas). The abbreviated short name used to reference the The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Sample specimen set

(saSpecimenSet). A specimen set that inculdes only a sample specimen. *Part Type*: specimenSets *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Sparse coverage

(sC). Sequencing shows sparse coverage, ie. numerical breadth of coverage shows as adequate but coverage plots reveal missing genome pieces. If there are multiple issues to flag, use the multiple issues flag and explain the details in the notes section. *Part Type*: qualityIndicators *Domain*:

naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Secondary clarifier effluent depreciated

(sce). Effluent obtained after secondary clarifiers. Deprecated in version 2, please do not use. Duplicate of the sampleMat categories - refer to those. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Standard curve frequency

(scf). A method for specifying the frequency over which a standard curve (or 'Master Curve') is used. *Part Type*: methods *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: timeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

School

(school). A school serving students in the kindergarten to 12th grade range
Part Type: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet
Compartment Set: anyCompartmentSet *Group*: colGrp *Class*: naClass
Nomenclature: naClass *Ontology Reference*: NA *Category Set ID*: NA
Unit Set: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA
Maximum Value: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

sciencell viral rna isolation kit

(sciencellRNA). sciencell viral rna isolation kit *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Sequencing script version set

(scriptSet). The set for script versions *Part Type*: mmaSets *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: scriptSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Genetic sequencing script version

(scriptVersion). Used to specify the script or script version used to extract summary information (i.e. coverage and mutation frequency statistics, etc.) from the sequencing output. *Part Type*: methods *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: proc-Grp *Class*: sequence *Nomenclature*: sequence *Ontology Reference*: NA *Category Set ID*: scriptSet *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Secondary clarifier sludge deprecated

(scsDep). Sludge produced by secondary clarifiers. Deprecated in version 2, please do not use. Duplicate of the sampleMat categories - refer to those. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Standard deviation

(sd). Standard deviation. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar

Parts

Missingness Set: NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Normalized standard deviation

(sdn). Standard deviation, normalized. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Sets look-up table Shorthand

(se). The abbreviated short name used to reference the Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together. table *Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Sea, natural water body

(sea). Sea, natural water body *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet

Group: colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Seconds

(seconds). The unit of time, seconds. *Part Type:* units *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* time *Nomenclature:* time *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

See unit (aggregation scales)

(seeUnitAggScale). A value for aggregation scale to be used when the aggregation scale depends on that specified in the parts list entry for the unit. When you encounter this value, see the unit being used for that entry and follow that aggregation scale entry. *Part Type:* aggregation-Scales *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

See unit (data type)

(seeUnitData). The data type entry when the data type for a given entry is specified by the unit used. Only used for measures, which is where the data type entry is used to validate the entry in the value field. For these cases, however, the data type is more dependant on the unit than the measure , and so this entry directs users to consult the data type of the unit. *Part Type:* dataTypes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

See unit (value)

(seeUnitVal). A value for maximum or minimum value in the dictionary, use when the maximum or minimum value is determined by the unit. Used for measures when the constraints on maximum and minimum value are specified by the unit, not the measure. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Secondary clarifier effluent

(sEfflu). Effluent obtained after secondary clarifiers *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Access to self

(self). If this is ‘no’, this data will not be shown on the portal when this reporter logs in. If missing, data will be available to this reporter. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: booleanSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: boolean *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 1 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Date sample was sent

(sentDate). Date that the sample was sent from the collection site to the lab. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: datetime *Missingness Set*: genMissingnessSet

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Septic tank wastewater

(septage). Wastewater from within a septic tank *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Septic tank

(septTnk). Septic tank *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sequencing Layout

(seqLay). The layout of genetic material used in sequencing. *Part Type:* methods *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* sequence *Nomenclature:* sequence *Ontology Reference:* NA *Category Set ID:* seqLaySet *Unit Set:*

unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Sequencing Layout set

(seqLaySet). The set for the layout of genetic material used in sequencing *Part Type*: mmaSets *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: seqLaySet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Sequencing quality set

(seqQualitySet). Quality set for sequencing measures *Part Type*: qualityIndSets *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Sequencing selection method

(seqSel). The primer sequence selection method used in sequencing. *Part Type*: methods *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment*

Parts

Set: anyCompartmentSet Group: procGrp Class: sequence Nomenclature: sequence Ontology Reference: NA Category Set ID: seqSelSet Unit Set: unitlessUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Sequencing selection method set

(seqSelSet). The set for the selection method used in sequencing *Part Type: mmaSets Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: seqSelSet Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: seeUnitData Missingness Set: NA Minimum Value: seeUnitVal Maximum Value: seeUnitVal Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.*

Sequencing Strategy

(seqStrat). The sequencing strategy used for an analysis. *Part Type: methods Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: sequence Nomenclature: sequence Ontology Reference: NA Category Set ID: seqStratSet Unit Set: unitlessUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Sequencing Strategy set

(seqStratSet). The set for the sequencing strategy used for an analysis *Part Type*: mmaSets *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: seqStratSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Genetic sequences class

(sequence). Measures and methods related to genetic sequencing. *Part Type*: classes *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: sequence *Nomenclature*: sequence *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

serial dillution

(serDil). Describes a serial dilution process for standard curve generation for PCR. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Serial dilution

(serialDilution). The serial dilution method for assessing inhibition. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: dilution *Nomenclature*: dilution *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Sewer Sediments Deprecated

(seseDep). Sediments obtained in sewer. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: deprecated. Last updated: 2.0.0.

Composite Set ID

(setCompID). A composite ID generated by concatenating the ‘setID’ and ‘partID’ of a given row in the sets table. This allows for a unique primary key and robust relational database structure. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar

Parts

Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 60 *Part Status:* active. First released: active. Last updated: 2.2.2.

Set ID

(setID). The unique identifier of a value set. A set is a group of units, attributes, categories, specimens, or compartments that can be used for a measure, method or attribute. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 28 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sets look-up table

(sets). Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together. This table manages many-to-many relationships and category recycling within the ODM. *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* lookup *Nomenclature:* lookup *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Sets table column order

(setsOrder). Specifies the order of the columns in the Sets table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Sets table required headers

(setsRequired). Required headers in the Sets table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Settled solids

(settsol). Amount of settled solids from a wastewater sample. May be a volume or a weight, see the unitID for a given measure row for details on a given sample. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: physical *Nomenclature*: physical *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: volumeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 0 *Maximum Value*: NA *Minimum*

Parts

Length: NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Set type

(setType). The type of set. i.e. quality set, aggregation set, unit set *Part Type:* partSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* NA *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Severity indicator

(severity). An indicator of the severity or seriousness of a quality flag. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* sevSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Severity set

(sevSet). A set for severity indicators. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* sevSet *Unit Set:* naUnitSet *Aggregation*

Parts

Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sewage equivalent

(sewEq). Equivalent unconcentrated volume of wastewater or mass of sludge in PCR reaction *Part Type:* measurements *Domain:* phy *Specimen ID:* saSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* volumeUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* genMissingnessSet *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Sewer network file link depreciated

(sewerNetworkFileBLOB). Link to a file that has any detailed information about the sewer network associated with the site (any format). *Part Type:* attributes *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Sewage travel time

(sewTrTi). A measure of sewage travel time, often approximate, from sewage source to the sampling site. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: siteFeat *Class*: physical *Nomenclature*: physical *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: timeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

S sars-cov-2 gene target

(sGene). S sars-cov-2 gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Shaker agitation speed

(shaker). The speed/agitation level for a shaker plate/shaker platform. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: speed *Nomenclature*: speed *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: speedUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Sampleshed set

(shedSet). The set for all valid values of sampleshed. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* siSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Shigella

(shigella). Shigella *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* shigellaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Shigella Group

(shigellaGrp). A group of measures/methods related to shigella bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment*

Set: anyCompartmentSet *Group:* shigellaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Ship

(ship). A cruise ship or other ship. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Shipped on ice

(shipOnIce). Was the sample kept cool while being shipped to the lab *Part Type:* methods *Domain:* allDo *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* booleanSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 1 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Short names

(shortName). Shortened names for tables and other important parts for use in wide names. *Part Type:* partType *Domain:* naDomain *Specimen ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Short Name Set

(shrtNameSet). The abbreviated short name used to reference the The table that contains information about addresses. Addresses can recorded for sites, organizations or contacts (indivduals). *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Sites table Shorthand

(si). The abbreviated short name used to reference the The table that contains information about a site; the location where an environmental sample was taken. table *Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA

Parts

Category Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Single

(sin). A value that is not an aggregate measurement (ie. not a mean, median, max or any other) and can be a replicate value. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Single Layout

(sinLay). Specifies the single layout for a sequencing method *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Singleplex, probe-based, one-step RT-qPCR

(sinProbeOne). Describes a PCR method that is singleplex, probe-based, and one-step RT-qPCR. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Site or sample specimen set

(siSaSpecimenSet). A specimen set that inculdes site or sample specimen. *Part Type*: specimenSets *Domain*: naDomain *Speciment ID*: siSaSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Site specimen set

(siSpecimenSet). A specimen set that inculdes only a site specimen. *Part Type*: specimenSets *Domain*: naDomain *Speciment ID*: siSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*:

NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Site

(sit). A measure made on a compartment or property at a site. An example is the wastewater flow rate, taken at a wastewater treatment plant. *Part Type*: specimens *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Site ID default

(siteDef). Used as default when a new sample is created by this reporter. See ID in Site table. Deprecated in version 2, please do not use. Just populate standard SiteID. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: depreciated. First released: depreciated. Last updated: 2.0.0.

Site features group

(siteFeat). A group of environmental measures/methods and those pertaining to the features of a site. *Part Type*: groups *Domain*: allDo *Spec-*

Parts

iment ID: siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* siteFeat *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Site ID

(siteID). Unique identifier for the location where a sample was taken. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Site measure ID

(siteMeasureID). Unique identifier for wide table only. Use when all measures are performed on a single sample. Depreciate in version 2. siteMeasures *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Sites table

(sites). The table that contains information about a site; the location where an environmental sample was taken. The site of an environmental sample. Information in the site table does not regularly change. Consider using the MeasureReport table if the information changes often. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: programDescr *Nomenclature*: programDescr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Sites table column order

(sitesOrder). Specifies the order of the columns in a Sites table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Sites table required headers

(sitesRequired). Specifies the columns required in a Sites table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference*

Parts

Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Site Type

(siteType). Type of site or institution where sample was taken. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* siteTypeSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Site set

(siteTypeSet). set for the type of sampling site. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* siteTypeSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Skimmed milk flocculation

(skimMilkFloc). Skimmed milk flocculation *Part Type:* categories *Domain:* che *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggrega-*

tion Scale: NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar
Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample Limit of Detection (LOD)

(slod). The minimum level of a target within a sample that would be consistently detectable considering all sample processing steps, from sample concentration leading up to and including amplification and quantification steps of RT-qPCR. In this Protocol, the SLOD is the concentration factor-adjusted ALOD, which provides a theoretical estimate of the minimum concentration in the original sample that would yield consistent detection of the target, assuming no method losses. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* procGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

slope

(slope). Slope value of the calibration curve. Used for storing calibration curve information, potentially also applicable for other curve types. *Part Type:* units *Domain:* allDo *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* standardCurve *Nomenclature:* standardCurve *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:*

Parts

NA Reference Link: NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Wastewater Sludge - non-specified

(sludgeNS). Sample material is wastewater sludge - whether primary, secondary or other is unspecified. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Sewer network file link depreciated 2

(snfl). Link to a file that has any detailed information about the sewer network associated with the site (any format). Depreciate in version 2. This attribute has been changed to referenceLink. Use po_referenceLink to specify polygon link to sewer network file. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Snowy

(snowy). Qualitative category for the weather measure, specifying a snowy day. *Part Type:* categories *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* siteFeat *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Solid fraction

(sol). Solid fraction of a sample. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Solids/Pellet retained

(solid). The solids or pellet is retained after solid separation/centrifugation. *Part Type:* categories *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Solid seperation

(solidSep). Process used to separate solid and liquid phases of the sample. Solid seperation is used either prior to or in the absence of the concentration method specified in ‘methodConc’. *Part Type:* methods *Domain:* allDo *Speciment ID:* saSpecimenSet *Compartment Set:* water-CompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* solidSeparationSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Solid separation set

(solidSeparationSet). set for the separation of solids. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* na-CompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* solidSeparationSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Wide name source

(source). The database or table sourced for the wide name. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment*

Parts

Set: anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Source Protocol ID

(sourceProtocol). A protocol that served as a basis for another protocol. This may be due to version changes, or a referencing a protocol that was later adapted. Populate with protocolID. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol step source ID

(sourceStep). Specifies the protocol step which serves as a basis for a given protocol step. Populate with a protocol step ID (stepID). *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Sovereign status of a country

(sovereignty). Sovereign status of a country, indicating which state has the highest jurisdiction over a given territory. Preprogrammed into dictionary tables, not editable by users. *Part Type*: attributes *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 50 *Part Status*: active. First released: active. Last updated: 2.1.0.

Specific humidity

(specHum). Measure for specific humidity, the unit is the ratio of the mass of water vapour and the mass of total air. *Part Type*: measurements *Domain*: phy *Specimen ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: siteFeat *Class*: humid *Nomenclature*: humid *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: specHumidUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Specific humidity unit set

(specHumidUnitSet). Unit set for specific humidity. *Part Type*: unitSets *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass

Parts

Ontology Reference: NA *Category Set ID:* NA *Unit Set:* specHumidUnit-Set *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Specifies

(specifies). Specifies that the object step or protocol occurs specifies details for the subject step or protocol in the overall protocol container. Use only for protocolRelationships table relationshipID. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* na-CompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Specimen

(specimen). The substance or thing upon which the observation was made. Specimens include: site, sample, person and population. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnit-Set *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 12 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Specimen input (wide table)

(specimenInput). The partID for the specimen being used in a wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Specimen name (wide table)

(specimenName). The specimen referenced for the wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Specimens

(specimens). Measures or observations are taken from three types of substances: populations (humans or geographic areas), samples, sites. See partID = specimenID *Part Type*: partType *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA

Parts

Minimum Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Specimen Set Header

(specimenSet). An identification of a set of specimens that can be applied for a measure or method. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Specimen sets

(specimenSets). Sets of specimens. Specimen sets are used when a measure or attribute can be recorded for more than one specimen. *Part Type:* part-Type *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

Speed class

(speed). Measures and methods relating to speed. *Part Type:* classes *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* any-

Parts

CompartmentSet Group: naGroup *Class:* speed *Nomenclature:* speed *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* windSpeedUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Speed Unit Set

(speedUnitSet). Unit set for reporting speeds (centrifugation speed, etc.) *Part Type:* unitSets *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* speedUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Spike matrix and recovery

(spike). The spike matrix and recovery method for assessing inhibition. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Spike Concentration

(spikeConc). Concentration of the recovery efficiency target in a spike matrix and recovery assay. *Part Type*: measurements *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Spike material

(spikeMat). Material into which the recovery efficiency control target is spiked. *Part Type*: methods *Domain*: bio *Specimen ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: spikeMatSet *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 4 *Part Status*: active. First released: active. Last updated: 2.0.0.

Spike material set

(spikeMatSet). set for spikeMat (aterial into which the recovery efficiency control target is spiked). *Part Type*: mmaSets *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: spikeMatSet *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness*

Parts

Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Recovery efficiency spike target

(spikeTarget). Method specifying the recovery efficiency control target. This matches on to the the spike material method ID. Should typically be indexed as a step proceeding the spikeMaterial methodID step. *Part Type:* methods *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* spikeTargetSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Recovery efficiency spike target set

(spikeTargetSet). The set capturing containing all of the valid categories for the recovery efficiency control (or spike) target. *Part Type:* mmaSets *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* spikeTargetSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample spilled

(spill). Sample contents spilled from container. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Secondary clarifier sludge

(sSludge). Sludge produced by secondary clarifiers *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Social services shelter

(sss). Other type of social services shelter *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Stabilization pond

(stabPnd). Specifies a site type which is a pond designed and built for wastewater treatment to reduce the organic content and remove pathogens from wastewater. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Standard concentrations class

(standardConc). Measures and methods relating to standard concentrations. *Part Type*: classes *Domain*: phy *Speciment ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Standard curve class

(standardCurve). Measures and methods relating to generating or recording a standard curve. *Part Type*: classes *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: standardCurve *Nomenclature*: standardCurve *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar

Parts

Missingness Set: NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Staphylococcus Group

(staphGrp). A group of measures/methods related to staphylococcus bacteria. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* staphGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Departments, states, or provinces

(stateProvLevel). Departments, states, or provinces *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* nrNAMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: deprecated. Last updated: 2.1.0.

State, Province, or Region

(stateProvReg). The state, province, or region where a site or organization is located; part of the address. *Part Type:* attributes *Domain:*

Parts

naDomain Speciment ID: naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Status

(status). Whether the part is still active and can be used in the most current ODM version. Values are ‘active’ or ‘inactive’. The status of the part or list. ‘active’ means the part is used in the dictionary version. ‘inactive’ means the part has been retired and not longer used in the version. *Part Type:* partSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* statusSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Status set

(statusSet). A set for partID = Status to indicate whether a part is in current use or not. *Part Type:* mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum*

Parts

Length: 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Standard concentration unit set

(stdConcentrationUnitSet). Unit set for concentration measurements. *Part Type:* unitSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Standard Curve Calculation Method

(stdCurveMet). Describes the specific approach used for calculating a standard curve. *Part Type:* methods *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* measGrp *Class:* pcr *Nomenclature:* pcr *Ontology Reference:* NA *Category Set ID:* stdCurveSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Standard Curve Calculation Set

(stdCurveSet). The set capturing containing all of the valid methods for the PCR standard curve calculations. *Part Type:* mmaSets *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet

Parts

Group: naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* stdCurveSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 50 *Part Status:* active. First released: active. Last updated: 2.2.0.

Shiga-toxin-producing Escherichia coli (STEC)

(stec). Shiga-toxin-producing Escherichia coli (STEC). *Part Type:* measurements *Domain:* bio *Speciment ID:* poSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* ecoliGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* bacteriaUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.0.

Storage temp

(sTemp). Temperature that the sample is stored at in Celsius. *Part Type:* measurements *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* temperature *Nomenclature:* temperature *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* temperatureUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Protocol Step ID

(stepID). The unique identifier for a specific protocol step. Protocol Steps are the component parts of a larger protocols, the latter being linked to specific measure reports. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Step ID Object

(stepIDObj). The object of the relationship between one protocol step and another step or protocol, within a given protocol ID container. Populate this field using Protocol Step ID (partID = stepID). Together with ‘protocolIDSub’ or ‘stepIDSub’ and ‘relationshipID’ the row of ‘protocolRelationships’ should say: [protocolIDSubject or stepIDSubject] [relationshipID] [protocolIDObject or stepIDObject]. Ex: stepIDSubject precedes protocolIDObject. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 1 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Step ID Subject

(stepIDSub). The subject of the relationship between one protocol step and another step or protocol, within a given protocol ID container. Populate this field using Protocol ID (partID = stepID). Together with ‘protocolIDSub’ or ‘stepIDSub’ and ‘relationshipID’ the row of ‘protocolRelationships’ should say: [protocolIDSubject or stepIDSubject] [relationshipID] [protocolIDObject or stepIDObject]. Ex: stepIDSubject precedes protocolIDObject. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Method step parent ID

(stepProvenanceID). A method step that served as a basis for another method step. This may be due to version changes, or a referencing a method set that was later adapted. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* **deprecated**. First released: deprecated. Last updated: 2.0.0.

Protocol step version

(stepVer). Specifies the version of a given protocol step. Version of the method step. Semantic versioning is recommended. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 50 *Part Status*: active. First released: active. Last updated: 2.0.0.

Standard Error

(stEr). The standard error of a series of measurements. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Sewer network file blob

(storTempDef). A file blob that has any detailed information about the sewer network associated with the site (any format). Deprecated in version 2, please do not use. Refer to WKT and EPSG instead. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*:

Parts

blob *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 65535 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Storage time

(stoTim). Length of time that a sample was in storage. *Part Type*: measurements *Domain*: allDo *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: time *Nomenclature*: time *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: timeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Streptococcus Group

(strepGrp). A group of measures/methods related to streptococcus bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: strepGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Streptococcus pneumoniae

(strepPneu). Streptococcus pneumoniae *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet

mentSet *Group*: strepGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Summary worksheet Shorthand

(su). The abbreviated short name used to reference the Summary sheet of the dictionary.xlsx file. sheet support *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Sub-variant or lineage

(subVar). A unit used to report a specific genetic lineage, or to specify that a reported variant is a sub-variant of another. Combine in a measure report if necessary. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: miscMeas *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Sucralose

(suc). Sucralose (usually measured as a human fecal chemical indicator) *Part Type*: measurements *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: procGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Rolling sum of previous 14 days

(sum14). The rolling sum of case counts/some kind of count over the previous 14 days. Aggregation for a population or disease measure to explain population-level clinical effects. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Summary

(summ). Short description of the assay and how it is different from the other assay methods. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA

Parts

Category Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 255 *Part Status:* active. First released: active. Last updated: 2.0.0.

Summary worksheet

(summary). Summary sheet of the dictionary.xlsx file. The summary sheet contains versioning and changelog. *Part Type:* dictionarySupport *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Sunny

(sunny). Qualitative category for the weather measure, specifying a clear and sunny day. *Part Type:* categories *Domain:* phy *Speciment ID:* siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* siteFeat *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Surface compartment

(surf). A measure or observation made from a substance on a surface. *Part Type*: compartments *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: surfaceCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Other surface

(surface). Surface other than floor or desk. See also categories for floor and desk. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: surfaceCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Surface compartment set

(surfaceCompartmentSet). A compartment set for measures and methods in the surface compartment. *Part Type*: compartmentSets *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: surfaceCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum*

Parts

Length: 0 Maximum Length: 15 Part Status: active. First released: active. Last updated: 2.0.0.

Surface and water compartment set

(surfaceWaterCompartmentSet). A compartment set for measures and methods in the surface or water compartments. *Part Type: compartmentSets Domain: allDo Speciment ID: anySpecimenSet Compartment Set: surfaceWaterCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 15 Part Status: active. First released: active. Last updated: 2.0.0.*

Surface swab

(surfSw). Surface swab. *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: surfaceCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Sewage truck

(swgTrck). Sewage truck *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA*

Parts

Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Sewer sediment

(swrSed). Sediments obtained in sewer *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Sewer catchment area

(swrSet). Sewer catchment area. *Part Type: categories Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Synthetic sample

(synthetic). A synthetic or artificially generated sample. Synthetic samples are artificially created by mixing known quantities of target substances

or organisms with clean water, often in a laboratory setting. These samples are used as controls, benchmarks, or calibration standards during the analysis process to ensure accurate and reliable results. For instance, a synthetic sample containing a known concentration of a specific pollutant might be used to calibrate analytical equipment or to test the efficiency of a new detection method. *Part Type*: categories *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

t19r delta-variant gene target

(t19r). t19r delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

t3646a delta-variant gene target

(t3646a). t3646a delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Ag-*

Parts

gregation Scale: seeUnitAggScale *Quality Set:* NA *Reference Link:* NA
Data Type: seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA
Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

t547k omicron-variant gene target

(t547k). t547k omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA
Data Type: seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA
Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

t9i omicron-variant gene target

(t9i). t9i omicron-variant gene target *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Tables

(tables). Tables are where measures, methods and attributes are recorded. Tables represent the main entities of the environmental surveillance. There An example of a table is ‘site’ a collection of attributes such as site name and address to describe where environment samples are taken. PHE-ODM has report tables, but users can create their own tables as well.

Part Type: partType *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Table column set

(tableSet). The set for valid inputs in table columns. These categories are used in the parts list for columns named after tables to indicate the position and function of a given part in the entity relationship diagram of the data model.

Part Type: mmaSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* tableSet *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Table Support

(tableSupport). Parts designed to support the metadata definition of tables in the parts table. *Part Type*: partType *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

TaqPath N sars-cov-2 gene target

(taqpatN). TaqPath N sars-cov-2 gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

TaqPath S sars-cov-2 gene target

(taqpats). TaqPath N sars-cov-2 gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA

Parts

Maximum Length: NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Sample temperature

(temp). Temperature of the sample measured in degrees Celcius *Part Type:* measurements *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* waterQualityGrp *Class:* temperature *Nomenclature:* temperature *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* temperatureUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Temperature class

(temperature). Measures and methods related to temperatures. *Part Type:* classes *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* temperature *Nomenclature:* temperature *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* temperatureUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Temperature unit set

(temperatureUnitSet). Unit set for temperature measurements. *Part Type:* unitSets *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:*

Parts

naClass Ontology Reference: NA Category Set ID: NA Unit Set: temperatureUnitSet Aggregation Scale: quantAggScale Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Template Sheet Set

(templateSheetSet). Worksheets in the full generic ODM surveillance template (all tables). *Part Type: dictSets Domain: naDomain Speciment ID: saSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

Nucelic Acid Template Type

(tempType). Specifies whether a PCR or sequencing used RNA or DNA as the template for the reaction. *Part Type: methods Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: standardConc Nomenclature: standardConc Ontology Reference: NA Category Set ID: tempSet Unit Set: naUnitSet Aggregation Scale: qualAggScale Quality Set: NA Reference Link: NA Data Type: categorical Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

Nucleic acid template volume

(tempVol). The volume of DNA or RNA template used for PCR. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: physical *Nomenclature*: physical *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: volumeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Airport terminal

(terminal). Airport terminal sample shed category type *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Test date

(tesDate). Date that the covid-19 test was performed. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*:

Parts

NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**.
First released: depreciated. Last updated: 2.0.0.

Number of tests performed

(test). Number of tests performed. *Part Type*: units *Domain*: bio *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Testing

(testing). A measure or sample taken to test a new method. These measures are typically used for internal lab uses and not reported to external partners. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Tetracycline Anti-microbial resistance Group

(tetAMRGrp). The group for measures and methods pertaining to tetracycline-related anti-microbial resistance. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: tetAMRGrp *Class*: naClass *Nomenclature*: naClass *Ontology*

Parts

Reference: NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 50 *Part Status:* active. First released: active. Last updated: 2.1.0.

TetW Tetracycline-resistance gene target

(tetW). The tetW tetracycline anti-microbial resistance gene target. *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* tetAMRGrp *Class:* allele *Nomenclature:* allele *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* <https://www.mediterranee-infection.com/accesressources/base-de-donnees/arg-annot-2/> *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

thermo magmax microbiome ultra nucleic acid isolation kit

(thermMag). Nucleic acid extraction performed using the thermo magmax microbiome ultra nucleic acid isolation kit. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

thermo magmax viral/pathogen nucleic acid isolation kit

(thermMagmax). thermo magmax viral/pathogen nucleic acid isolation kit
Part Type: categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Transport hub - General

(tHub). A transport hub not otherwise specified. i.e. a place where passengers and cargo are exchanged between vehicles or/and between transport modes. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Time class

(time). Measures and methods relating to time. *Part Type:* classes *Domain:* allDo *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* time *Nomenclature:* time *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* timeUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:*

Parts

NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Time proportional sample

(timePr). A time proportional composite sample generally collected by an autosampler. Use collectionPeriod to describe how many hours the sample was taken. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Time unit set

(timeUnitSet). The unit set for measures of time. *Part Type*: unitSets *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: anyCompartmentSet *Group*: miscMeas *Class*: time *Nomenclature*: time *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: timeUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Total Kjeldahl Nitrogen

(tkn). A measure of Total Kjeldahl Nitrogen; ie. the sum of nitrogen bound in organic substances, nitrogen in ammonia (NH₃-N) and in ammonium (NH₄⁺-N) in the chemical analysis of soil, water, or waste water. *Part Type*: measurements *Domain*: che *Speciment ID*: siSaSpecimenSet

Parts

Compartment Set: waterCompartmentSet *Group:* miscMeas *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Country code top-level domain

(tld). The internet top-level domain generally used or reserved for a country, sovereign state, or dependent territory identified with a country code. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 3 *Maximum Length:* 3 *Part Status:* active. First released: active. Last updated: 2.1.0.

Total Nitrogen

(tn). Total nitrogen concentration, as N. *Part Type:* measurements *Domain:* che *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* waterQualityGrp *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Total amount or count - the sum

(total). The total number or final count of cases, or other defined metric. Aggregation for a population or disease measure to explain population-level clinical effects. *Part Type*: aggregations *Domain*: naDomain *Speciment ID*: poSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Time Proportional 24hr sample

(tp24s). A time proportional 24-hour composite sample generally collected by an autosampler. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: col-Grp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: NA *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: depreciated. First released: depreciated. Last updated: 2.0.0.

Treponema pallidum

(tPallidum). Treponema pallidum *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: treponemaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data*

Parts

Type: seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Translation look-up table Shorthand

(tr). The abbreviated short name used to reference the Look up table for translations of the description, label, and instruction for all parts. table *Part Type:* shortName *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.2.

Train

(train). A series of railroad cars moved as a unit by a locomotive or by integral motors. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Synthetic ID for the translations table

(translationID). A unique, autoincremental ID generated to produce a unique identifier and primary key for each row of the translations table.

Parts

Part Type: attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 50 *Part Status:* active. First released: active. Last updated: 2.2.0.

Translation look-up table

(translations). Look up table for translations of the description, label, and instruction for all parts. The default language if a translation is not specified is English. *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* lookup *Nomenclature:* lookup *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Translation table column order

(translationsOrder). Specifies the order of the columns in the Translation table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Translation table required headers

(translationsRequired). Required headers in the Translations table. *Part Type*: tableSupport *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Transportation vehicle - general

(transp). A vehicle, i.e. a mobile machine, transporting people or cargo, of a type not otherwise specified. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Passive (trap) sampling

(trap). A composite sampler that passively collects a sample without use of electricity or a battery. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*:

Parts

0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Treponema Group

(treponemaGrp). A group of measures/methods related to treponema bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: treponemaGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Trichomonas Group

(trichomonasGrp). A group of measures/methods related to trichomonas bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: trichomonasGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Wastewater Triturator

(triturator). The location where wastewater transportation vehicles unload wastewater. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp

Parts

Class: naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

trizol, zymo mag beads w/ zymo clean and concentrator

(trizol). Nucleic acid extraction performed using the trizol, zymo mag beads w/ zymo clean and concentrator method. *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

trizol, garnet bead beating, alcohol precipitation

(trizolEtOH). trizol, garnet bead beating, alcohol precipitation *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

trizol and RNA purification kit

(trizolRNA). trizol and RNA purification kit *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Train Station

(trStat). A place on a railroad line where trains regularly stop so that passengers can get on or off. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

TRUE

(TRUE). Boolean data type = TRUE Use only “TRUE” (case sensitive) *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: boolean *Missingness Set*: NA *Minimum Value*:

Parts

NA Maximum Value: NA Minimum Length: 4 Maximum Length: 4 Part Status: active. First released: active. Last updated: 2.0.0.

Total solids concentration

(ts). Total solids concentration *Part Type:* measurements *Domain:* che *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* waterQualityGrp *Class:* standardConc *Nomenclature:* standard-Conc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Total suspended solids

(tss). Total suspended solids *Part Type:* measurements *Domain:* che *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* waterQualityGrp *Class:* standardConc *Nomenclature:* standard-Conc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Concentration of total suspended solids

(tssConc). Total suspended solids concentration of the wastewater. *Part Type:* measurements *Domain:* phy *Speciment ID:* siSaSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* miscMeas *Class:* standard-

Parts

Conc Nomenclature: standard *Conc Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* stdConcentrationUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Tuberculosis Group

(tuberculosisGrp). A group of measures/methods related to tuberculosis. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* tuberculosisGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Francisella tularensis (tularemia) Group

(tularemiaGrp). A group of measures/methods related to Francisella tularensis. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* tularemiaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Turbidity

(turb). A measure for the turbidity of water, or a liquid sample, quantifying the relative clarity or opacity of a liquid. Highly indicative of water quality. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSaS-pecimenSet *Compartment Set*: waterCompartmentSet *Group*: miscMeas *Class*: turbidity *Nomenclature*: turbidity *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: turbidityUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Turbidity class

(turbidity). Measures and methods relating to water and wastewater turbidity. *Part Type*: classes *Domain*: che *Speciment ID*: siSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: turbidity *Nomenclature*: turbidity *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: turbidityUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Turbidity unit set

(turbidityUnitSet). Unit set for turbidity measurements. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: na-Class *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: turbidityU-unitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*:

Parts

NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Trichomonas vaginalis

(tVaginalis). Trichomonas vaginalis *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: trichomonasGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Tube weight empty

(tWeighE). The weight of the tube used for analysis while empty. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: physical *Nomenclature*: physical *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: volumeUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: genMissingnessSet *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Tube weight full

(tWeighF). The weight of the tube used for analysis while full of analyte. *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet

Parts

Compartment Set: anyCompartmentSet *Group:* procGrp *Class:* physical *Nomenclature:* physical *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* volumeUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* genMissingnessSet *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Type other deprecate

(tyOtDep). Description for other type of sample not listed in *Part Type:* methods *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

Type other deprecate2

(tyOtDep2). Description of the site when the site is not listed. See site-Type. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 100 *Part Status:* **deprecated**. First released: depreciated. Last updated: 2.0.0.

University campus

(uCampus). University or college campus - comprising an entire campus or part of a campus. See also 'Higher Education Domitory". *Part Type*: categories *Domain*: naDomain *Specimen ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Micrograms per gram

(ugG). Micrograms per gram *Part Type*: units *Domain*: allDo *Specimen ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: na-Group *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Micrograms per litre

(ugL). Micrograms per litre *Part Type*: units *Domain*: allDo *Specimen ID*: siSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: na-Group *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: NA *Minimum*

Parts

Length: NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Micrograms per milligram

(ugmg). Concentration unit of micrograms per milligram. *Part Type:* units *Domain:* allDo *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Micro-litres

(uL). The unit of microlitres. *Part Type:* units *Domain:* che *Speciment ID:* siSaSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* standardConc *Nomenclature:* standardConc *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Undisclosed

(undisc). A value has been recorded, however it was not included in the dataset. Missing value indicator for data that has not been shared or disclosed with outside parties. *Part Type:* missingness *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet

Parts

Group: naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Unique sample

(unique). A unique sample, not duplicated. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Unit

(unit). The units of a measurement. Different units that are used to describe measurement values. Units are combined into UnitSetIDs. Please requests new units by creating an issue in the ODM repository. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Unit input (wide table)

(unitInput). The partID for the unit being used in a wide name. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Unitless measure

(unitless). A unit for unitless measures, like pH. *Part Type*: units *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Unitless unit set

(unitlessUnitSet). Unit set for measurements that does not have units. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: categorical *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum*

Parts

Length: 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Unit name (wide table)

(unitName). The unit referenced for the wide name. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* any-*CompartmentSet Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Units

(units). The unit of the measurement. Every measurement must have a unit. Meaning, ‘units’ are a mandatory field whenever a measurement is recorded. *Part Type:* partType *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Unit set

(unitSet). An idenification of a set of units that can be used for a measure or method. *Part Type:* attributes *Domain:* che *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* procGrp *Class:* naClass

Parts

Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Unit sets

(unitSets). Sets of units. Contains units that are associated with part types such as measures. Sets are lists of input values. Each input value within a set is a part (has a partID) that can be reused between sets. For example, a set A could contain the values of ‘yes’ and ‘no’; and set B could contain the values of ‘yes’, ‘no’, and ‘maybe.’ partTypes with sets include aggregations, compartments, missingness, quality flags, specimens, and units. Measures with categories and dataTypes have their own specific sets (catSetID) because their input values are unique and are not reused.
Part Type: partType *Domain:* naDomain *Speciment ID:* naSpecimenSet
Compartment Set: anyCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

The Unlicense

(unlicense). The licensing for the measure or data set is managed under The Unlicense. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/unlicense/>

Parts

Data Type: varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Ultracentrifugation

(untracent). Ultracentrifugation Should typically be linked to a lower limit, and some indication of data spread (ie. standard deviation), and a mean/median measure. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Upper limit of a 95% confidence interval

(upperCI95). Specifies the the upper limit of a 95% confidence interval. A catch-all category for upstream wastewater sampling sites, including major sewer pipelines and pumping stations. *Part Type:* aggregations *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Parts

Upstream sites

(upstream). A general site type for upstream wastewater sampling sites.
Part Type: categories *Domain:* phy *Speciment ID:* siSaSpecimenSet
Compartment Set: anyCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA
Reference Link: NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Ureaplasma

(ureaplasma). Ureaplasma *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* ureaplasmaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Ureaplasma

(ureaplasmaGrp). A group of measures/methods related to ureaplasma bacteria. Used to describe the organism information for general measures.
Part Type: groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* ureaplasmaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Micro-Siemens per centimetre

(uSCm). Micro-siemens per centimetre. *Part Type:* units *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 12 *Part Status:* active. First released: active. Last updated: 2.0.0.

U site measure ID

(uSiteMeasureID). Unique identifier for each measurement for a site. *Part Type:* attributes *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* sarsCov2 *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* depreciated. First released: depreciated. Last updated: 2.0.0.

Coordinated universal time (UTC) zone

(utc). UTC ,Ã¶/Ñ“ Time zone. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA

Parts

Category Set ID: NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 75 *Part Status:* active. First released: active. Last updated: 2.1.0.

Coordinated universal time (UTC) zone in daylight savings

(utcDST). Time zone during Daylight Saving Time. Preprogrammed into dictionary tables, not editable by users. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 75 *Part Status:* active. First released: active. Last updated: 2.1.0.

Utilities sector or organization

(utilities). Describes organization that manage or provide utilities services, whether water, gas, heat, etc. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

V1104L Mutation

(v1104l). The FLiRT/SLip variant mutation V1104L *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flirtSLipGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

v2930l delta-variant gene target

(v2930l). v2930l delta-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Vacuum sludge sampling

(vac). Instrument type is a grab sampler that takes a sample at a designated depth with minimal disturbance to surrounding layers. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*:

Parts

NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Validation study

(validationStudy). A measure or sample taken for a validation study. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Value

(value). Value of a measure, observation or attribute. Only used for the dictionary entries of parts. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

VanA-A Vancomycin-resistance gene target

(vanAA). The VanA-A vancomycin anti-microbial resistance gene target. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: vanAMRGrp *Class*:

Parts

allele *Nomenclature*: allele *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: <https://www.mediterranee-infection.com/accesressources/base-de-donnees/arg-annot-2/> *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Vancomycin Anti-microbial resistance Group

(vanAMRGrp). The group for measures and methods pertaining to vancomycin-related anti-microbial resistance. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: vanAMRGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 50 *Part Status*: active. First released: active. Last updated: 2.1.0.

Vancomycin resistance

(vanc). Vancomycin resistant bacteria. *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: amrGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: bacteriaUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.1.0.

Parts

Variable character data type

(varchar). The data type for variable character data. Measured by sequencing. *Part Type*: dataTypes *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 100 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Frequency of variants detected

(varFreq). A description of the frequency of variants detected. *Part Type*: units *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Variants class

(variant). Measures and methods relating to variants. *Part Type*: classes *Domain*: bio *Speciment ID*: poSaSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: variant *Nomenclature*: variant *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum*

Parts

Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active.
First released: active. Last updated: 2.0.0.

Varicella

(varicella). Varicella *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* varicellaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Varicella Group

(varicellaGrp). A group of measures/methods related to varicella viruses. Used to describe the organism information for general measures. *Part Type:* groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* varicellaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Population with 1 dose of vaccine

(vax1). The population with exactly 1 dose of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet

Parts

Group: popGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Proportion of population with 1+ vaccine dose(s)

(vax1p). Specifies the portion of the population with 1 or more doses of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* popGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* 100 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Population with 1+ dose(s) of vaccine

(vax1plus). The population with 1 or more doses of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* popGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Population with 2 or more doses of vaccine

(vax2). The population with exactly 2 dose of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* popGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Proportion of population with 2+ vaccine doses

(vax2p). Specifies the portion of the population with 2 or more doses of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* popGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* 100 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Population with 2+ or more doses of vaccine

(vax2plus). The population with 2 or more doses of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:*

Parts

naDomain Specimen ID: poSpecimenSet Compartment Set: humanCompartmentSet Group: popGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: quantAggScale Quality Set: NA Reference Link: NA Data Type: integer Missingness Set: NA Minimum Value: 0 Maximum Value: NA Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.0.0.

Population with 3 or more doses of vaccine

(vax3). The population with exactly 3 dose of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type: units Domain: naDomain Specimen ID: poSpecimenSet Compartment Set: humanCompartmentSet Group: popGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: quantAggScale Quality Set: NA Reference Link: NA Data Type: integer Missingness Set: NA Minimum Value: 0 Maximum Value: NA Minimum Length: NA Maximum Length: NA Part Status: active. First released: active. Last updated: 2.2.0.*

Proportion of population with 3+ vaccine doses

(vax3p). Specifies the portion of the population with 3 or more doses of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type: units Domain: naDomain Specimen ID: poSpecimenSet Compartment Set: humanCompartmentSet Group: popGrp Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: quantAggScale Quality Set: NA Reference Link: NA Data Type: integer Missingness Set: NA Minimum Value: 0*

Parts

Maximum Value: 100 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Population with 3+ or more doses of vaccine

(vax3plus). The population with 3 or more doses of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* popGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Population with 4 or more doses of vaccine

(vax4). The population with exactly 4 dose of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type:* units *Domain:* naDomain *Speciment ID:* poSpecimenSet *Compartment Set:* humanCompartmentSet *Group:* popGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Parts

Proportion of population with 4+ vaccine doses

(vax4p). Specifies the portion of the population with 4 or more doses of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type*: units *Domain*: naDomain *Speciment ID*: poSpecimenSet *Compartment Set*: humanCompartmentSet *Group*: popGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 100 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Population with 4+ or more doses of vaccine

(vax4plus). The population with 4 or more doses of vaccine, with the vaccine specified in the measure field. A unit used for specifying a population-wide vaccination level measure. *Part Type*: units *Domain*: naDomain *Speciment ID*: poSpecimenSet *Compartment Set*: humanCompartmentSet *Group*: popGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: integer *Missingness Set*: NA *Minimum Value*: 0 *Maximum Value*: 100 *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

ODM V1 category

(version1Category). ODM V1 category *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation*

Parts

Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

ODM V1 location

(version1Location). ODM V1 location *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

ODM V1 table

(version1Table). ODM V1 table *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

ODM version 1 to 2 changes

(version1to2Changes). Changes for part between ODM v1 and V2 *Part Type:* attributes *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass

Parts

Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

ODM V1 variable

(version1Variable). ODM V1 variable *Part Type:* attributes *Domain:* bio *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Vertical grab sampling

(vertGrb). Instrument type is a grab sampler in which the container for the sample is mounted on the end of a rod, which is suitable for collecting waste from a tank. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* colGrp *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.3.

Vibrio

(vibrio). Vibrio *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: vibrioGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Vibrio Group

(vibrioGrp). A group of measures/methods related to vibrio bacteria. Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: vibrioGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Miscellaneous viruses group

(virusMisc). A group of measures/methods related to miscellaneous viruses. The miscallenous viruses are often measured for normalization or standardization and have only one measure or method. When a virus has many measures, they will be given their own groupID in updated dictionary versions. *Part Type*: groups *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: virusMisc *Class*: physical *Nomenclature*: physical *Ontology Reference*: NA *Category*

Parts

Set ID: NA *Unit Set:* volumeUnitSet *Aggregation Scale:* seeUnitAggScale
Quality Set: NA *Reference Link:* NA *Data Type:* float *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* depreciated. First released: depreciated. Last updated: 2.2.0.

Size in volume

(vol). Total volume of water or sludge sampled. Used for water or air testing *Part Type:* measurements *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* airWaterCompartmentSet *Group:* colGrp *Class:* physical *Nomenclature:* physical *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* volumeUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Volume proportional sample

(volPr). A volume proportional sample generally collected by an autosampler. The sampling takes the same wastewater volume at variable time intervals, after a defined volume of wastewater has passed the sampling point. This is also called constant volume, variable time (CVVT). *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Volume unit set

(volumeUnitSet). Unit set of volume measurements. *Part Type*: unitSets *Domain*: che *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: miscMeas *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Volatile suspended solids

(vss). Volatile suspended solids *Part Type*: measurements *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: waterQualityGrp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Volatile suspended solids - ignition

(vssIg). A water quality measure, captured by via the loss on ignition of the mass of measured total suspended solids. This ignition generally takes place in an oven at a temperature of 550 °C to 600 °C. It represents the amount of volatile matter present in the solid fraction of the measured solution. *Part Type*: measurements *Domain*: allDo *Speciment ID*:

Parts

anySpecimenSet *Compartment Set*: waterCompartmentSet *Group*: meas-
Grp *Class*: standardConc *Nomenclature*: standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: stdConcentrationUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 1 *Part Status*: active. First released: active. Last updated: 2.0.0.

Vesicular stomatitis virus (VSV) target

(vsv). Vesicular stomatitis virus is used as the recovery efficiency control target. *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: procGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

VSV forward primer (ABI)

(vsvABIFor). VSV forward primer (ABI) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: vsvGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

VSV probe (ABI)

(vsvABIProbe). VSV probe (ABI) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: vsvGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

VSV reverse primer (ABI)

(vsvABIRev). VSV reverse primer (ABI) *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: vsvGrp *Class*: pcr *Nomenclature*: pcr *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: unitlessUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Vesicular Stomatitis Virus (VSV) Group

(vsvGrp). A group of measures/methods related to Vesicular Stomatitis Virus (VSV). Used to describe the organism information for general measures. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: vsvGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Verotoxin-producing Escherichia coli (VTEC)

(vtec). Verotoxin-producing Escherichia coli (VTEC) *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* ecoliGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnit-Set *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Water compartment

(wat). A measure or observation made from a substance in the water, including wastewater. *Part Type:* compartments *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* waterCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 15 *Part Status:* active. First released: active. Last updated: 2.0.0.

water concentrating buffer (R2042-1)

(watConcBuff). water concentrating buffer (R2042-1) *Part Type:* categories *Domain:* phy *Speciment ID:* saSpecimenSet *Compartment Set:* any-CompartmentSet *Group:* procGrp *Class:* standardConc *Nomenclature:*

Parts

standardConc *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Water depreciated

(water). Non-wastewater, coming from any kind of water body. *Part Type*: categories *Domain*: allDo *Speciment ID*: anySpecimenSet *Compartment Set*: waterCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 15 *Part Status*: active. First released: active. Last updated: 2.0.0.

Water compartment set

(waterCompartmentSet). A compartment set for measures and methods in the water compartment. *Part Type*: compartmentSets *Domain*: phy *Speciment ID*: siSaSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: miscMeas *Class*: temperature *Nomenclature*: temperature *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: temperatureUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Water Quality Group

(waterQualityGrp). A group of measures/methods related to water quality. *Part Type*: groups *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: waterQualityGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Water-based Transit Hub

(waterTH). A transport hub is a place where passengers and cargo are exchanged between water-based vehicles and/or between water-based transport modes. Used when not greater detail can be provided *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.3.

Wastewater temperature

(watTemp). Temperature of the wastewater. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: siteFeat *Class*: weather *Nomenclature*: weather *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: temperatureUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: float *Missingness Set*: genMissingnessSet *Minimum Value*: 0

Parts

Maximum Value: 40 *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Weather

(weath). A measure for weather captured through qualitative categories; part of a larger suite of weather measures that may be useful when collecting samples from outdoor sources. *Part Type:* measurements *Domain:* phy Speciment ID: siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* siteFeat *Class:* weather *Nomenclature:* weather *Ontology Reference:* NA *Category Set ID:* weathSet *Unit Set:* unitlessUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* categorical *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Weather class

(weather). Measures and methods relating to weather. *Part Type:* classes *Domain:* allDo Speciment ID: siSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* weather *Nomenclature:* weather *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* unitlessUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Weather set

(weathSet). A set of the valid qualitative categories for the qualitative weather measure. *Part Type:* mmaSets *Domain:* bio Speciment ID: saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:*

Parts

naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: NA *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.0.0.

West Nile

(westNile). West Nile *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: flavivirusGrp *Class*: organism *Nomenclature*: organism *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Whole genome sequencing

(wgs). Specifies the whole genome sequencing (WGS) strategy for genetic sequencing *Part Type*: categories *Domain*: bio *Speciment ID*: naSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

WHO nomenclature

(who). Specifies variant or genetic nomenclature as set out by the World Health Organization. If there are multiple issues to flag, use the multiple issues flag and explain the details in the notes section. *Part Type*: nomenclatures *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Wide 95% interval

(wi). The 95% interval is too wide, low confidence in results. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Specified attribute (wide table)

(wideAttribute). Unique identifier for an attribute in a wide table only. „„*Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum*

Parts

Value: NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Measure identification (wide table)

(wideMeasure). Unique identifier for a measure in a wide table only.[–],[†]
Part Type: attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet
Compartment Set: anyCompartmentSet *Group:* naGroup *Class:* naClass
Nomenclature: naClass *Ontology Reference:* NA *Category Set ID:* NA
Unit Set: naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA
Data Type: varchar *Missingness Set:* NA *Minimum Value:* NA
Maximum Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Wide Name

(wideName). Unique identifier for wide table only. Use when all measures are performed on a single sample at the same time and same laboratory. Suggestion: siteID_sampleID_LabID_reportDate_ID. *Part Type:* attributes *Domain:* naDomain *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Wide name table

(wideNames). The table for wide names. *Part Type:* tables *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* lookup *Nomenclature:* lookup *Ontology*

Parts

Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Wide name table order

(wideNamesOrder). Column for indicating the order of the fields in the wide names table. *Part Type: tableSupport Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

Wide name table required

(wideNamesRequired). Column for indicating which fields in the wide names table are mandatory. *Part Type: tableSupport Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

Parts

Wide name type

(wideNameType). The type of wide name generated. Possible options are measure, protocol or attribute. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Specified protocol (wide table)

(wideProtocol). Unique identifier for a protocol in a wide table only.—”, Ä† *Part Type*: attributes *Domain*: naDomain *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Wind Speed

(wind). A measure for wind speed; part of a larger suite of weather measures that may be useful when collecting samples from outdoor sources. *Part Type*: measurements *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: airCompartmentSet *Group*: siteFeat *Class*: speed *Nomenclature*: speed *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: windSpeedUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*:

genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Wind speed unit set

(windSpeedUnitSet). Unit set for wind speed measurements. *Part Type*: unitSets *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: **deprecated**. First released: depreciated. Last updated: 2.0.0.

Wide name table Shorthand

(wn). The abbreviated short name used to reference the The table for wide names. table *Part Type*: shortName *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

Sample stored incorrectly

(wrongStorage). Sample was stored inappropriately. *Part Type*: qualityIndicators *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*:

Parts

naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

Sample stored at wrong temperature

(wrongTemp). Sample was stored at an inappropriate temperature. *Part Type: qualityIndicators Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

World Sphere (W-SPHERE)

(wSphere). World Sphere header *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: naCompartmentSet Group: naGroup Class: naClass Nomenclature: naClass Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

World Sphere (W-SPHERE) notes

(wSphereNotes). W-Shere notes *Part Type: attributes Domain: naDomain Speciment ID: naSpecimenSet Compartment Set: waterCompartmentSet Group: colGrp Class: naClass Nomenclature: naClass Ontology Reference:*

Parts

NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA
Quality Set: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Delta Variant wt214 gene target

(wt214). Delta Variant wt214 gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: deltaGrp *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: seeUnitData *Missingness Set*: genMissingnessSet *Minimum Value*: seeUnitVal *Maximum Value*: seeUnitVal *Minimum Length*: NA *Maximum Length*: NA *Part Status*: active. First released: active. Last updated: 2.2.0.

Do What The F*ck You Want To Public License { #wtfpl }

(wtfpl). The licensing for the measure or data set is managed under the Do What The Fck You Want To Public License. *Part Type** categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: <https://choosealicense.com/licenses/wtfpl/> *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

Parts

Wastewater treatment plant

(wwtp). A general site type for wastewater treatment plants. Used as a catch-all category for industrial or municipal wastewater treatment plants that carry combined or sanitary sewage, or lagoons. *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Back-up wastewater treatment site

(wwtpBack). Indicates a wastewater treatment plant where multiple labs are or were sampling, and where secondary samples are being taken taken. Maps to units of either million gallons per day, or population equivalents. *Part Type*: categories *Domain*: phy *Speciment ID*: siSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: siteFeat *Class*: capacity *Nomenclature*: capacity *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Wastewater treatment plant designed capacity

(wwtpCap). A measure for the designed capacity of a wastewater treatment plant, in terms of how much water it was designed to be able to hold and process. *Part Type*: measurements *Domain*: phy *Speciment ID*:

siSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp
Class: capacity *Nomenclature*: capacity *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: capacityUnitSet *Aggregation Scale*: seeUnitAggScale
Quality Set: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Industrial wastewater treatment plant

(wwtpInd). Industrial wastewater treatment plant *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Municipal wastewater treatment plant for combined sewage

(wwtpMuC). Municipal wastewater treatment plant for combined sewage *Part Type*: categories *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: waterCompartmentSet *Group*: colGrp *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Parts

Municipal wastewater treatment plant for sanitary sewage only

(wwtpMuS). Municipal wastewater treatment plant for sanitary sewage only *Part Type*: categories *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: seeUnitAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.0.0.

Relative Centrifugal Force (RCF) or x g units

(xg). RCF (Relative Centrifugal Force) denotes the degree of force exerted on a sample. RCF is quantified in multiples of the gravitational acceleration that is standard at the Earth's surface (x g). Thus, the terms RCF and XG are often used interchangeably in centrifugation protocols. *Part Type*: units *Domain*: phy *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: na-Class *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: quantAggScale *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: genMissingnessSet *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.0.

y505h omicron-variant gene target

(y505h). y505h omicron-variant gene target *Part Type*: measurements *Domain*: bio *Speciment ID*: saSpecimenSet *Compartment Set*: anyCompartmentSet *Group*: sarsCov2 *Class*: mutation *Nomenclature*: mutation *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: geneticUnitSet Ag-

Parts

gregation Scale: seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* genMissingnessSet *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.0.0.

Years

(years). A unit for indicating a length of time in years. *Part Type:* units *Domain:* allDo *Speciment ID:* anySpecimenSet *Compartment Set:* anyCompartmentSet *Group:* naGroup *Class:* time *Nomenclature:* time *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* quantAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 0 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.0.0.

Yersinia enterocolitica

(yEnterocolitica). Yersinia enterocolitica *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* yersiniaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

Yersinia Group

(yersiniaGrp). A group of measures/methods related to yersinia bacteria. Used to describe the organism information for general measures. *Part*

Parts

Type: groups *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* yersiniaGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Zika

(zika). Zika *Part Type:* measurements *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* flavivirusGrp *Class:* organism *Nomenclature:* organism *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* geneticUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:* seeUnitData *Missingness Set:* genMissingnessSet *Minimum Value:* seeUnitVal *Maximum Value:* seeUnitVal *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.2.0.

zLib License

(zlib). The licensing for the measure or data set is managed under the zLib License. *Part Type:* categories *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* <https://choosealicense.com/licenses/zlib/> *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.2.0.

Zones look-up table Shorthand

(zo). The abbreviated short name used to reference the Look up table for the possible sub-national region or zone inputs. table *Part Type*: short-Name *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 30 *Part Status*: active. First released: active. Last updated: 2.2.2.

English name of country sub-domains

(zoneName). The english-language name for a given country sub-domain. Preprogrammed into dictionary tables, not editable by users. *Part Type*: attributes *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: naClass *Nomenclature*: naClass *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum Value*: NA *Minimum Length*: 0 *Maximum Length*: 75 *Part Status*: active. First released: active. Last updated: 2.1.0.

Zones look-up table

(zones). Look up table for the possible sub-national region or zone inputs. *Part Type*: tables *Domain*: naDomain *Speciment ID*: naSpecimenSet *Compartment Set*: naCompartmentSet *Group*: naGroup *Class*: lookup *Nomenclature*: lookup *Ontology Reference*: NA *Category Set ID*: NA *Unit Set*: naUnitSet *Aggregation Scale*: NA *Quality Set*: NA *Reference Link*: NA *Data Type*: varchar *Missingness Set*: NA *Minimum Value*: NA *Maximum*

Parts

Value: NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active.
First released: active. Last updated: 2.1.0.

Zones table column order

(zonesOrder). Specifies the order of the columns in the zones table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* integer *Missingness Set:* NA *Minimum Value:* 1 *Maximum Value:* NA *Minimum Length:* NA *Maximum Length:* NA *Part Status:* active. First released: active. Last updated: 2.1.0.

Zones table required headers

(zonesRequired). Required headers in the zones table. *Part Type:* tableSupport *Domain:* naDomain *Speciment ID:* naSpecimenSet *Compartment Set:* naCompartmentSet *Group:* naGroup *Class:* naClass *Nomenclature:* naClass *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* NA *Quality Set:* NA *Reference Link:* NA *Data Type:* varchar *Missingness Set:* NA *Minimum Value:* NA *Maximum Value:* NA *Minimum Length:* 0 *Maximum Length:* 30 *Part Status:* active. First released: active. Last updated: 2.1.0.

zymo quick-rna viral kit #r1035

(zymo1035). zymo quick-rna viral kit #r1035 *Part Type:* categories *Domain:* bio *Speciment ID:* saSpecimenSet *Compartment Set:* anyCompartmentSet *Group:* procGrp *Class:* mutation *Nomenclature:* mutation *Ontology Reference:* NA *Category Set ID:* NA *Unit Set:* naUnitSet *Aggregation Scale:* seeUnitAggScale *Quality Set:* NA *Reference Link:* NA *Data Type:*

Parts

varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.

zymo quick-rna viral 96 kit #r1041

(zymo1041). zymo quick-rna viral 96 kit #r1041 *Part Type: categories Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: mutation Nomenclature: mutation Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.*

zymo environ water rna kit/ zymo environ water rna kit (cat. r2042)

(zymoEnv). Nucleic acid extraction performed using the zymo environ water rna kit/ zymo environ water rna kit (cat. r2042). *Part Type: categories Domain: bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: mutation Nomenclature: mutation Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.*

zymo quick-rna fungal/bacterial miniprep #r2014

(zymoQuick). Nucleic acid extraction performed using the zymo quick-rna fungal/bacterial miniprep #r2014 kit. *Part Type: categories Domain:*

Parts

bio Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: mutation Nomenclature: mutation Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: seeUnitAggScale Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: genMissingnessSet Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.0.0.

zymo environ water rna kit/ zymo environ water rna kit (cat. r2042)

(zymoWatRNA). zymo environ water rna kit (cat. r2042) Part Type: categories Domain: phy Speciment ID: saSpecimenSet Compartment Set: anyCompartmentSet Group: procGrp Class: standardConc Nomenclature: standardConc Ontology Reference: NA Category Set ID: NA Unit Set: naUnitSet Aggregation Scale: NA Quality Set: NA Reference Link: NA Data Type: varchar Missingness Set: NA Minimum Value: NA Maximum Value: NA Minimum Length: 0 Maximum Length: 30 Part Status: active. First released: active. Last updated: 2.2.0.

Sets

Dictionary v2.2.3 Documentation v2.1.0

Sets are lists of categories and other parts. For example, **Collection category set** ([collectionCatSet](#)) contains a list of the different collection types including: **Moore swab**, **Grab sample**, **Flow proportional sample**, etc.

Sets can have parts that are reused. For example, there are different quality measures for sample collection (e.g. **Sample not collected**), PCR measures (**Inhibition preset**), and sequencing measures (**Low depth of coverage**), but all quality sets share the **No quality concerns** indicator.

Aggregations

(aggregations). Statistical measures used to report a measure. Each measure reported as a number should be reported with an aggregation. The default aggregation is **single**, which corresponds to a single measurement.

AND Boolean aggregation (`andBoo`). “AND” aggregation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Cumulative count (`cuCo`). The cumulative count of cases of a given disease. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Daily count (`daiCo`). The daily count of cases of a given disease. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Flow-normalized mean (floMean). Mean measure normalized to wastewater flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Geometric mean (gmn). Geometric mean. Status: active. First released: 1.0.0. Last updated: 2.0.0.

See Header for Aggregation (hAg). An indicator to show in a wide-name that aggregation information is located in a different column. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Lower limit of a 95% confidence interval (lowerCI95). Specifies the the lower limit of a 95% confidence interval. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Maximum value (maxVal). Highest value in a range of values for a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Arithmetic mean (me). Arithmetic mean. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Median (med). Median. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Normalized arithmetic mean (menr). Arithmetic mean, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Minimum value (minVal). Lowest value in a range of values for a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Aggregation not applicable (naAggr). Not applicable for aggregations. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Normalized geometric mean (ngmn). Geometric mean, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

OR Boolean aggregation (orBoo). “OR” aggregation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Aggregations

Other aggregation deprecated (otherDep). Other aggregation method. Add description to aggregationOther Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

PMMoV- and flow-normalized mean (pmFloMean). Mean measure normalized to amount of PMMoV and wastewater flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

PMMoV-normalized mean (pmmovNorm). Mean measure normalized to amount of PMMoV. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Standard deviation (sd). Standard deviation. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Normalized standard deviation (sdn). Standard deviation, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Standard Error (stEr). The standard error of a series of measurements. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Single (sin). A value that is not an aggregate measurement (ie. not a mean, median, max or any other) and can be a replicate value. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Rolling sum of previous 14 days (sum14). The rolling sum of case counts/some kind of count over the previous 14 days. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Total amount or count - the sum (total). The total number or final count of cases, or other defined metric. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Upper limit of a 95% confidence interval (upperCI95). Specifies the upper limit of a 95% confidence interval. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Aggregation scales

(aggregationScales). The scale of an aggregation set. Aggregation scales include quantitative and qualitative.

Aggregation scale not applicable (naAggrScale). Not application for aggregation sets. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Other aggregation scale (othAgg). Specifies an aggregation scale that can't be described as either "qualitative" or "quantitative". Status: active. First released: 2.0.0. Last updated: 2.0.0.

Qualitative (qualAggScale). The qualitative aggregation scale. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quantitative (quantAggScale). The "quantAggScale" aggregation scale. Status: active. First released: 2.0.0. Last updated: 2.0.0.

See unit (aggregation scales) (seeUnitAggScale). A value for aggregation scale to be used when the aggregation scale depends on that specified in the parts list entry for the unit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Aggregation sets

(aggregationSets). Sets of aggregations. Examples of aggregation sets include logarithm, linear and boolean.

Boolean aggregation set

(booleanAggrSet) Aggregation set for boolean. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

AND Boolean aggregation (andBoo). “AND” aggregation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

OR Boolean aggregation (orBoo). “OR” aggregation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Single (sin). A value that is not an aggregate measurement (ie. not a mean, median, max or any other) and can be a replicate value. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Linear scale aggregation set

(linearAggrSet) The aggregation set that contains all aggregations that exist on the linear scale. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Flow-normalized mean (floMean). Mean measure normalized to wastewater flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Lower limit of a 95% confidence interval (lowerCI95). Specifies the lower limit of a 95% confidence interval. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Maximum value (maxVal). Highest value in a range of values for a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Arithmetic mean (me). Arithmetic mean. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Median (med). Median. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Normalized arithmetic mean (menr). Arithmetic mean, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Minimum value (minVal). Lowest value in a range of values for a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

PMMoV- and flow-normalized mean (pmFloMean). Mean measure normalized to amount of PMMoV and wastewater flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

PMMoV-normalized mean (pmmovNorm). Mean measure normalized to amount of PMMoV. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Standard deviation (sd). Standard deviation. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Normalized standard deviation (sdn). Standard deviation, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Single (sin). A value that is not an aggregate measurement (ie. not a mean, median, max or any other) and can be a replicate value. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Upper limit of a 95% confidence interval (upperCI95). Specifies the the upper limit of a 95% confidence interval. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Logarithmic scale aggregation set

(logAggrSet)The aggregation set that contains all aggregations that exist on the logarithmic scale (rather than linear or qualitative). Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Flow-normalized mean (floMean). Mean measure normalized to wastewater flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Aggregation sets

Geometric mean (gmn). Geometric mean. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Lower limit of a 95% confidence interval (lowerCI95). Specifies the the lower limit of a 95% confidence interval. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Maximum value (maxVal). Highest value in a range of values for a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Minimum value (minVal). Lowest value in a range of values for a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Normalized geometric mean (ngmn). Geometric mean, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

PMMoV- and flow-normalized mean (pmFloMean). Mean measure normalized to amount of PMMoV and wastewater flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

PMMoV-normalized mean (pmmovNorm). Mean measure normalized to amount of PMMoV. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Single (sin). A value that is not an aggregate measurement (ie. not a mean, median, max or any other) and can be a replicate value. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Upper limit of a 95% confidence interval (upperCI95). Specifies the the upper limit of a 95% confidence interval. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Aggregation set not applicable

(naAggrSet)Not application for aggregation sets. Used for parts for which an aggregation set value is not applicable or appropriate. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Sets

Aggregation not applicable (naAggr). Not applicable for aggregations. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Other aggregation set

(otherAggrSet) Aggregation set used for unitless measures. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Flow-normalized mean (floMean). Mean measure normalized to wastewater flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Geometric mean (gmn). Geometric mean. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Lower limit of a 95% confidence interval (lowerCI95). Specifies the the lower limit of a 95% confidence interval. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Maximum value (maxVal). Highest value in a range of values for a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Arithmetic mean (me). Arithmetic mean. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Median (med). Median. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Normalized arithmetic mean (menr). Arithmetic mean, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Minimum value (minVal). Lowest value in a range of values for a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Aggregation not applicable (naAggr). Not applicable for aggregations. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Attributes

Normalized geometric mean (ngmn). Geometric mean, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Standard deviation (sd). Standard deviation. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Normalized standard deviation (sdn). Standard deviation, normalized. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Single (sin). A value that is not an aggregate measurement (ie. not a mean, median, max or any other) and can be a replicate value. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Upper limit of a 95% confidence interval (upperCI95). Specifies the upper limit of a 95% confidence interval. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Attributes

(attributes). Attributes describe the who, where, when, and why of environmental surveillance. There are attributes for domain, specimen, compartment, or table. Attributes are one of the three main components or ways to report environment surveillance data. The other two components are measures and methods.

Analysis date (aDate). Date the measurement was performed in the lab. Status: depreciated. First released: 1.0.0. Last updated: 2.1.0.

Analysis date end (aDateEnd). Date the measurement or analysis was completed. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Analysis date start (aDateStart). Date the measurement or analysis was started. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Address Line 1 (addL1). Line 1 (the street name, number and direction) for a given address. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Address Line 2 (addL2). Line 2 (the unit number) for a given address. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Address ID (addressID). A unique identifier for an address. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Administrative regions (admRegLevel). Administrative regions Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Aggregation scale (aggregationScale). A scale used for an aggregation. Only applicable for measures and units. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Aggregation (aggregation). Statistical measures used to report a measure. Each aggregation has a corresponding value. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Aggregation input (wide table) (aggregationInput). The partID for the aggregation being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Aggregation name (wide table) (aggregationName). The aggregation referenced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Aggregation set (aggregationSet). The aggregation set for a unit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Alias depreciated (aliasDep). ID of an assay that is the same or similar. A comma separated list. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Alias ID depreciated (aliasIDDep). Alias id Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Attributes

Access to all org (allOrgs). If this is ‘no’, this data will not be available to any partner organization. If missing, data will be available to the all organizations. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Assay method id default depreciated (amDefDep). Used as default when a new measurement is created for this lab. See ID in AssayMethod table. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Assay ID (asID). Links with the AssayMethod used to perform the analysis. Use instrument.ID for measures that are not viral measures. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Attribute input (wide table) (attributeInput). The partID for the attribute being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Attribute name (wide table) (attributeName). The attribute referenced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Capital city endonym (capitalEndonym). The name locals use for their country,Ã¢â€šÂ¬â€¥s capital. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Capital city exonym (capitalExonym). The English name foreigners use for the country,Ã¢â€šÂ¬â€¥s capital. Status: active. First released: 2.1.0. Last updated: 2.1.0.

character length (charLength). The number of characters used for the wide names. Status: active. First released: 2.2.0. Last updated: 2.2.0.

City (city). The city where a site or organization is located; part of the address. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Class (class). A unique identifier for a class, which is akin to a sub-group; it’s a way of grouping parts within a given group. A group can have one or

Sets

more classes to describe different parts of the class. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Collection date time (collDT). For grab samples this is the date, time and timezone the sample was taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Collection date time end (collDTEnd). For integrated time average samples this is the date, time and timezone the sample was finished being taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Collection date time start (collDTStart). For integrated time averaged samples this is the date, time and timezone the sample was started being taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Collection number (collNum). The number of subsamples that were combined to create the sample. Use NA for continuous, proportional or passive sampling. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Collection period and number (collNumPer). Composite collection number.period. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Collection period (collPer). Collection period. The time period over which the sample was collected, in hours. Alternatively, use collectionStart and collectionEnd. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample collection type (collType). The type of collection. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Column name depreciated (columnNameDep). Name for the column Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Compartment (compartment). The attribute identifying the substance from which where a sample was taken. For more information, see partID

Attributes

= compartment. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Compartment input (wide table) (compartmentInput). The partID for the compartment being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Compartment name (wide table) (compartmentName). The compartment referenced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Compartment Set Header (compartmentSet). An identification of a set of compartments that can be applied for a measure or method. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Contact ID (contactID). A unique identifier for a given contact person. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Contact name (contactName). Contact person or group, for the lab. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Contact phone (coPhone). Contact phone number, for the lab. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Country (country). The country where a site or organization is located; part of the address. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Country endonym (countryEndonym). The name locals use for their country. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Country exonym (countryExonym). The English name foreigners use for the country. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Countries or sovereign states (countryLevel). Countries or sovereign states Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Sets

Districts, counties, regions (countyLevel). Districts, counties, regions
Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Covid-19 population measurement date (cphDate). date of reporting for covid-19 measure. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Cphd ID (cphid). Unique identifier for the table. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Custody Contact ID (custodyCont). A unique identifier for data custodians. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Data custodian ID (custodyID). The data custodian of a database. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dataset creation date (datasetDate). Specifies the date a given dataset was created. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dataset ID (datasetID). The name of the dataset that stores information for MeasureReport, SampleReport and other reporting tables. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Date (date). Date Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Description (descr). A detailed description of a measure, method, or attribute. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Access to details deprecated (detailsDep). More details on the existing confidentiality requirements of this measurement. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Domain (domain). Domain is the highest level of describing of a measure. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Contact email (email). Contact e-mail address, for the lab. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Attributes

European Nucleotide Association (enaMap). ENA header Status: active. First released: 2.0.0. Last updated: 2.0.0.

European Nucleotide Association (ENA) - notes (enaNotes). ENA notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

Enumeration for set values (enumeration). The numeric value that corresponds to a given value in a set, defined in the sets table. Status: active. First released: 2.2.0. Last updated: 2.2.0.

File location of polygon (fileLocation). The location of the file containing the geometry of the polygon. Status: active. First released: 1.0.0. Last updated: 2.0.0.

First name of contact (firstName). Specifies the first name of a given contact. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Fraction analyzed (fraction). Fraction of the sample that is analyzed. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Fraction input (wide table) (fractionInput). The partID for the fraction being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Fraction name (wide table) (fractionName). The fraction analyzed referenced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Funder contact ID (funderCont). A unique identifier for a funder. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Funding agency ID (funderID). The funding agency of the dataset. Status: active. First released: 2.0.0. Last updated: 2.0.0.

European Petroleum Survey Group Coordinates (geoEPSG). The unique EPSG code specifying a given geospatial area. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Latitude (geoLat). Geographical location, latitude in decimal coordinates, ie.: (45.424721) Status: active. First released: 1.0.0. Last updated: 2.0.0.

Longitude (geoLong). Geographical location, longitude in decimal coordinates, ie.: (-75.695000) Status: active. First released: 1.0.0. Last updated: 2.0.0.

Type of geography (geoType). Type of geography that is represented by the polygon. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Well-known text (geoWKT). Well-known text of the polygon Status: active. First released: 1.0.0. Last updated: 2.0.0.

Group (group). Unique identifier for a group of measures. Mostly applicable for measures, methods, units, and aggregations. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Health Region for a Site (healthRegion). A free-text variable for listing the health region for a given site. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Index (index). Index number in case the measurement was taken multiple times. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Instrument ID (instrumentID). A unique identifier for an instrument. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Instrument Type (insType). Type of instrument used to perform the measurement. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Describe other instrument type, if applicable (insTypeOth). Description of the instrument in case it is not listed in instrumentType. Status: active. First released: 1.0.0. Last updated: 2.0.0.

ISO639-1 (iso6391). The first part of the ISO 639 series of international standards for language codes. Part 1 covers the registration of two-letter codes. There are 183 two-letter codes registered as of June 2021. The

Attributes

registered codes cover the world's major languages. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ISO639-2B (iso6392B). A set of international standards that lists short codes for language names. These ISO639-2 are the three-letter codes defined in part two (ISO 639-2) of the standard, including the corresponding two-letter (ISO 639-1) codes where they exist. The 'B' specifies the bibliographic code (B code). Status: active. First released: 2.0.0. Last updated: 2.0.0.

ISO639-2T (iso6392T). A set of international standards that lists short codes for language names. These ISO639-2 are the three-letter codes defined in part two (ISO 639-2) of the standard, including the corresponding two-letter (ISO 639-1) codes where they exist. The 'T' specifies the terminological code (T code). Status: active. First released: 2.0.0. Last updated: 2.0.0.

ISO639-3 (iso6393). A set of international standards that lists short codes for language names. ISO 639-3 extends the ISO 639-2 alpha-3 codes with an aim to cover all known natural languages. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ISO639-6 (iso6396). A set of international standards that lists short codes for language names. ISO 639-6 builds off ISO639-3 with the use of four-letter codes, and allowing users to differentiate between variants of languages and language families, such as historical vs. revived versions of languages. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ISO 3166-1 alpha-2 country code (isoCode). The ISO 3166-1 alpha-2 code, a two-letter country code which is also used to create the ISO 3166-2 country subdivision code and the Internet country code top-level domain. Status: active. First released: 2.1.0. Last updated: 2.1.0.

ISO 3166-1 alpha-3 country code (isoCodeX). The ISO 3166-1 alpha-3 code, a three-letter country code which may allow a better visual association between the code and the country names than the 3166-1 alpha-2 code. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Sets

ISO 3166-2 code for country sub-domain (isoZone). The ISO 3166-2 codes for the names of the principal subdivisions (e.g., provinces, states, departments, regions) of all countries coded in ISO 3166-1. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Lab ID default deprecated (labDefDep). Used as default when a new sample is created by this reporter. See ID in Lab table. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Lab ID (labID). Unique identifier for a laboratory. Status: depreciated. First released: 1.0.0. Last updated: 2.1.0.

Language ID (lang). Language code for translation purposes. Specifies the language for each translation, other than the default English. Uses the ISO-6393 code. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Language family (langFam). Specifies the language family of a given language for translation and language tracking purposes. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Language name (langName). Specifies the name of the language in roman alphabet characters for translation and language tracking purposes. Status: active. First released: 2.0.0. Last updated: 2.0.0.

National language script (langScript). The language(s) and script(s) used for the country,Ãœ/Ñ/¥s capital endonyms. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Last edited (lastEdited). The date the entry was last updated. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Last name of contact (lastName). Specifies the last name of a given contact. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Link (li). Link to an external reference that describes the geometry of the polygon. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Attributes

License (license). The license of a dataset. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Access to local ha (localHA). If this is ‘no’, the, data will not be available to local health authorities. If missing, data will be available to local health authorities. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Manufacturer (manufacturer). Manufacturer of an instrument. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure (measure). A measurement or observation of any substance including a biological, physical or chemical substance. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measure input (wide table) (measureInput). The partID for the measure being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure license (measureLic). Specifies the access and use licensing for a given single measurement. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure name (wide table) (measureName). The measure referenced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Report ID (measureRepID). Unique identifier for a measurement. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measure set report set ID (measureSetRepID). Unique identifier that links together a group of related measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Method (method). A procedure for collecting a sample or performing a measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Method input (wide table) (methodInput). The partID for the method being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Method name (wide table) (methodName). The method referenced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Missingness Set (missingnessSet). Missingness sets for measures, methods or attributes. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, Method, or Attribute Set Header (mmaSet). The set for a measure, method, or attribute. Only applicable for categorical fields, and the categories that populate them. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Model (model). Model number or version of the instrument. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Municipalities or communes (municipalLevel). Municipalities or communes Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Name (name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity. Status: active. First released: 2.0.0. Last updated: 2.0.0.

English name for countries (nameEngl). English-language name of a given country. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Official state name (nameOfficial). Official english-language name of a given state. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Native Name (natName). The native name of the language, i.e. what the language is called by its speakers. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Attributes

National Center for Biotechnology Information (ncbi). NCBI header Status: active. First released: 2.0.0. Last updated: 2.0.0.

NCBI - notes (ncbiNotes). NCBI notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

Local administrative units or neighborhoods (neighborLevel). Local administrative units or neighborhoods Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Nomenclature (nomenclature). A classification system to report the measure class. Only applicable to variants, mutations, and diseases. Status: active. First released: 2.0.0. Last updated: 2.0.0.

NORMAN (norman). NORMAN header Status: active. First released: 2.0.0. Last updated: 2.0.0.

NORMAN - notes (normanNote). Norman notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

Notes (notes). A note used to describe details that are not captured in other attributes Status: active. First released: 2.0.0. Last updated: 2.0.0.

ISO 3166-1 numeric country code (numCode). The ISO 3166-1 numeric code, a three-digit country code which is identical to that developed and maintained by the United Nations Statistics Division, with the advantage of script (writing system) independence, and hence useful for people or systems using non-Latin scripts. Status: active. First released: 2.1.0. Last updated: 2.1.0.

National Wastewater Surveillance System (nwss). NWSS header Status: active. First released: 2.0.0. Last updated: 2.0.0.

NWSS - notes (nwssNotes). NWSS notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

NWSS - process (nwssProcess). NWSS process Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Organization ID (organizationID). A unique identifier for the organization to which the reporter is affiliated. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Organization level (orgLevel). The geographic level of an organization. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Organization sector (orgSector). The sector of an organization Status: active. First released: 2.0.0. Last updated: 2.0.0.

Organization Type (orgType). Specifies the type or purpose of a given organization. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample origin (origin). An attribute of a sample specifying the origin. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Access to other prov deprecated (otherProvDep). If this is ‘no’, this data will not be available to other data providers not listed before. If missing, data will be available to other data providers not listed before Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Parent dataset ID (parDatasetID). The datasetID that is a parent to another datasetID. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Parent sample ID (parent). If this sample has been pooled into one big sample for analysis this indicates the sample of the larger pooled sample. Status: depreciated. First released: 1.1.0. Last updated: 2.0.0.

Parent Site ID (parSiteID). The siteID that is a parent to another siteID; usually the sub-site will be contained in the parentSite. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Part type input (wide table) (partTypeInput). The partID for the part type being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Attributes

Part type name (wide table) (partTypeName). The part type being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Postal or Zip Code (pCode). The zip code or postal code for a given address, specifying a specific geographic area. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Access to phac (phac). If this is ‘no’, the data will not be available to employees of the Public Health Agency of Canada - PHAC. If missing, data will be available to employees of the Public Health Agency of Canada - PHAC. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

PHAGE (phage). PHAGE header Status: active. First released: 2.0.0. Last updated: 2.0.0.

PHAGE - notes (phageNotes). PHAGE notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

Country national phone prefix (phone). International dialing code for the country. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Polygon ID (polygonID). Unique identifier for the polygon. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Polygon Population (polyPop). An attribute of a polygon, which specifies the population of that polygon. A rough estimate of the number of human residents. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Pooled (pooled). Is this a pooled sample, and therefore composed of multiple child samples obtained at different sites Status: active. First released: 1.0.0. Last updated: 2.0.0.

Type of date for case reporting depreciated (popDateTypeDep). Type of date used for confirmed cases. Typically, report or episode are reported. Onset and test date is not usually reported within aggregate data. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Sets

Population Served (popServ). An attribute of a site, which specifies the population of/population served by a given site. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol ID (protocolID). A unique identifier for a given protocol. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol ID container (protocolIDContainer). Unique identifier for the protocol and the steps and other protocols that make it up. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol ID object (protocolIDObj). The object of the relationship between one protocol and another protocol or step, within a given protocol ID container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol ID subject (protocolIDSub). The subject of the relationship between one protocol and another protocol or step, within a given protocol ID container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Synthetic ID for the protocolRelationships table (protocolRelationshipsID). A unique, autoincremental ID generated to produce a unique identifier and primary key for each row of the protocolRelationships table. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Protocol version (protocolVersion). Specifies the version of a method set. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Access to prov ha (provHA). If this is ‘no’, this data will not be available to provincial health authorities. If missing, data will be available to provincial health authorities. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Pretreatment description - depreciated (ptDescDep). If preTreatment then describe the treatment that was performed. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Attributes

Access to public (public). If this is ‘no’, this data will not be available to the public. If missing, data will be available to the public. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Purpose (purpose). The reason the measure or sample was taken. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality flag (qualityFlag). A field for reporting any quality concerns - of lack thereof - for a sample or measure. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality Indicator Set Header (qualityIndSet). The quality set that corresponds to a given part. Only applicable for samples and measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality report ID (qualityReportID). A unique identifier for a given quality report. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Date sample received (recDate). The date the sample was received at the laboratory for analysis. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Reference link (refLink). Link to the reference material for a part. May link to literature on a method, measure, etc. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Relationship between entities (relationshipID). Attribute for specifying the relationship between a sample subject and object. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Primary reporting authority ID (repOrg1). The primary or most responsible authority for routine surveillance reports or findings, or where the site is located. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Secondary reporting authority ID (repOrg2). The secondary, additional or alternative authority for routine surveillance reports or findings,

Sets

or where the site is located. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Reportable (reportable). Flag for whether a measure is reportable or not, based on confidence in the measure and methods applied. Status: active. First released: 2.0.0. Last updated: 2.1.0.

Report date (reportDate). The date a measure was reported. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Reporter ID depreciated (reporterIDDep). Unique identifier for the person or organization that is reporting the data. Status: depreciated. First released: 1.1.0. Last updated: 2.0.0.

Report table input (wide table) (reportTableInput). The short name for the listed source table. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Report table name (wide table) (reportTableName). The report table that the wide name calls from. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Replicate Type (repType). Attribute of a sample, specifying whether the sample is unique, or a replicate. And if it is a replicate, what type of replicate is it? Status: active. First released: 2.0.0. Last updated: 2.0.0.

Role of contact (role). Specifies the organizational role of a given contact. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample material (saMaterial). Type of sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample ID (sampleID). Unique identifier for a sample. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Sample ID object (sampleIDObject). Populated by `sampleID` - this specifies the object of a sample relationship. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Attributes

Sample ID subject (sampleIDSubject). Populated by `sampleID` - this specifies the subject of a sample relationship. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Synthetic ID for the sampleRelationships table (sampleRelationshipsID). A unique, autoincremental ID generated to produce a unique identifier and primary key for each row of the sampleRelationships table. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sample shed (sampleShed). A geographic area, physical space, or structure. A sample is taken from a sampleshed for a representative measurement of a substance(s). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Access to self (self). If this is ‘no’, this data will not be shown on the portal when this reporter logs in. If missing, data will be available to this reporter. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Date sample was sent (sentDate). Date that the sample was sent from the collection site to the lab. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Composite Set ID (setCompID). A composite ID generated by concatenating the ‘setID’ and ‘partID’ of a given row in the sets table. This allows for a unique primary key and robust relational database structure. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Set ID (setID). The unique identifier of a value set. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Severity indicator (severity). An indicator of the severity or seriousness of a quality flag. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Sewer network file link deprecated (sewerNetworkFileBLOB). Link to a file that has any detailed information about the sewer network associated with the site (any format). Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Site ID default (siteDef). Used as default when a new sample is created by this reporter. See ID in Site table. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Site ID (siteID). Unique identifier for the location where a sample was taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Site measure ID (siteMeasureID). Unique identifier for wide table only. Use when all measures are performed on a single sample. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Site Type (siteType). Type of site or institution where sample was taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sewer network file link depreciated 2 (snfl). Link to a file that has any detailed information about the sewer network associated with the site (any format). Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Wide name source (source). The database or table sourced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Source Protocol ID (sourceProtocol). A protocol that served as a basis for another protocol. This may be due to version changes, or a referencing a protocol that was later adapted. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol step source ID (sourceStep). Specifies the protocol step which serves as a basis for a given protocol step. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Attributes

Sovereign status of a country (sovereignty). Sovereign status of a country, indicating which state has the highest jurisdiction over a given territory. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Specimen (specimen). The substance or thing upon which the observation was made. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Specimen input (wide table) (specimenInput). The partID for the specimen being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Specimen name (wide table) (specimenName). The specimen referenced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Specimen Set Header (specimenSet). An identification of a set of specimens that can be applied for a measure or method. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Departments, states, or provinces (stateProvLevel). Departments, states, or provinces Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

State, Province, or Region (stateProvReg). The state, province, or region where a site or organization is located; part of the address. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Protocol Step ID (stepID). The unique identifier for a specific protocol step. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Step ID Object (stepIDObj). The object of the relationship between one protocol step and another step or protocol, within a given protocol ID container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Step ID Subject (stepIDSub). The subject of the relationship between one protocol step and another step or protocol, within a given protocol ID container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Method step parent ID (stepProvenanceID). A method step that served as a basis for another method step. This may be due to version changes, or a referencing a method set that was later adapted. Status: depreciated. First released: 2.0.0. Last updated: 2.0.0.

Protocol step version (stepVer). Specifies the version of a given protocol step. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sewer network file blob (storTempDef). A file blob that has any detailed information about the sewer network associated with the site (any format). Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Summary (summ). Short description of the assay and how it is different from the other assay methods. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Country code top-level domain (tld). The internet top-level domain generally used or reserved for a country, sovereign state, or dependent territory identified with a country code. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Synthetic ID for the translations table (translationID). A unique, autoincremental ID generated to produce a unique identifier and primary key for each row of the translations table. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Type other deprecate2 (tyOtDep2). Description of the site when the site is not listed. See siteType. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Unit (unit). The units of a measurement. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Unit input (wide table) (unitInput). The partID for the unit being used in a wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Attributes

Unit name (wide table) (unitName). The unit referenced for the wide name. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Unit set (unitSet). An identification of a set of units that can be used for a measure or method. Status: active. First released: 2.0.0. Last updated: 2.0.0.

U site measure ID (uSiteMeasureID). Unique identifier for each measurement for a site. Status: depreciated. First released: 2.0.0. Last updated: 2.0.0.

Coordinated universal time (UTC) zone (utc). UTC ,ÄöÑ„ Time zone. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Coordinated universal time (UTC) zone in daylight savings (utcDST). Time zone during Daylight Saving Time. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Value (value). Value of a measure, observation or attribute. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM V1 category (version1Category). ODM V1 category Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM V1 location (version1Location). ODM V1 location Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM V1 table (version1Table). ODM V1 table Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM version 1 to 2 changes (version1to2Changes). Changes for part between ODM v1 and V2 Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM V1 variable (version1Variable). ODM V1 variable Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Specified attribute (wide table) (wideAttribute). Unique identifier for an attribute in a wide table only. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure identification (wide table) (wideMeasure). Unique identifier for a measure in a wide table only. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wide Name (wideName). Unique identifier for wide table only. Use when all measures are performed on a single sample at the same time and same laboratory. Suggestion: siteID_sampleID_LabID_reportDate_ID. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wide name type (wideNameType). The type of wide name generated. Possible options are measure, protocol or attribute. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Specified protocol (wide table) (wideProtocol). Unique identifier for a protocol in a wide table only. Status: active. First released: 2.2.0. Last updated: 2.2.0.

World Sphere (W-SPHERE) (wSphere). World Sphere header Status: active. First released: 2.0.0. Last updated: 2.0.0.

World Sphere (W-SPHERE) notes (wSphereNotes). W-Sphere notes Status: active. First released: 1.0.0. Last updated: 2.0.0.

English name of country sub-domains (zoneName). The english-language name for a given country sub-domain. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Classes

(classes). A class is a collection of one or more related measures or methods within a group. A group can have one or more classes to

Classes

describe different parts or the class.

Alleles class (allele). Measures and methods related to alleles. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Bacteria Class (bacteria). Measures and methods relating to bacteria. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Capacity class (capacity). Measures and methods relating to capacity. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Conductivity class (conductivity). Measures and methods related to conductivity. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dilution Class (dilution). Measures and methods relating to dilutions. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Diseases (human) class (disease). Measure and methods related to disease or infection in humans. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Flow class (flow). Measures and methods related to flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gas class (gas). Measures and methods relating to gas and gases. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Humidity class (humid). Measures and methods related to humidity. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dictionary tables (lookup). Tables to describe and support the ODM dictionary. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Mutations class (mutation). Measures and methods related to mutations. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Class not applicable (naClass). Class is not applicable. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Organism (organism). Organism class Status: active. First released: 2.2.0. Last updated: 2.2.0.

Outbreak class (outbreak). Measures and methods relating to public health outbreaks. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qPCR Class (pcr). Measures and methods relating to qPCR. Status: active. First released: 2.0.0. Last updated: 2.0.0.

pH class (pHClass). Measures and methods relating to pH. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Physical class (physical). Measures and methods related to generic physical properties. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Precipitation class (precipitation). Measures and methods related to precipitation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Program description tables (programDescr). Tables used to describe surveillance and testing programs. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Proteins class (protein). Measures and methods related to proteins. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Results tables (results). Tables used to record samples, measures and quality reports. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Genetic sequences class (sequence). Measures and methods related to genetic sequencing. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Speed class (speed). Measures and methods relating to speed. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Compartments

Standard concentrations class (standardConc). Measures and methods relating to standard concentrations. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Standard curve class (standardCurve). Measures and methods relating to generating or recording a standard curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Temperature class (temperature). Measures and methods related to temperatures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Time class (time). Measures and methods relating to time. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Turbidity class (turbidity). Measures and methods relating to water and wastewater turbidity. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Variants class (variant). Measures and methods relating to variants. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Weather class (weather). Measures and methods relating to weather. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Compartments

(compartments). The substance from which a sample was taken. For example, wastewater has component of “water”. Compartments are attributes of measures, methods, units, and aggregations.

Air compartment (air). A measure or observation made from a substance in the air. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

See **Header for Compartment** (hCo). A indicator for wide-names that the compartment information is stored in a separate column. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Human compartment (hum). A measure or observation made about a human. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Compartment not applicable (naCompartment). Compartment not applicable. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Surface compartment (surf). A measure or observation made from a substance on a surface. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Water compartment (wat). A measure or observation made from a substance in the water, including wastewater. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Compartment sets

(compartmentSets). Sets of compartments. Compartment sets are used to identify when a measure can be recorded for more than one compartment. For example, SARS-CoV-2 can be measured in people (humans), water, surface, or air.

Air compartment set

(airCompartmentSet)A compartment set for measures and methods in the air compartment. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Air compartment (air). A measure or observation made from a substance in the air. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Compartment sets

Air and surface compartment set

(airSurfaceCompartmentSet)A compartment set for measures and methods in the air or surface compartments. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Air compartment (air). A measure or observation made from a substance in the air. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Surface compartment (surf). A measure or observation made from a substance on a surface. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Air and water compartment set

(airWaterCompartmentSet)A compartment set for measures and methods in the air or water compartments. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Air compartment (air). A measure or observation made from a substance in the air. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Any compartment set

(anyCompartmentSet)A compartment set for measures and methods in any compartment. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Air compartment (air). A measure or observation made from a substance in the air. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Surface compartment (surf). A measure or observation made from a substance on a surface. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Water compartment (wat). A measure or observation made from a substance in the water, including wastewater. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Human compartment set

(humanCompartmentSet)A compartment set for measures and methods in the human compartment. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Human compartment (hum). A measure or observation made about a human. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Compartment set not applicable

(naCompartmentSet)Compartment not applicable. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Compartment not applicable (naCompartment). Compartment not applicable. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Surface compartment set

(surfaceCompartmentSet)A compartment set for measures and methods in the surface compartment. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Surface compartment (surf). A measure or observation made from a substance on a surface. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Surface and water compartment set

(surfaceWaterCompartmentSet)A compartment set for measures and methods in the surface or water compartments. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Surface compartment (surf). A measure or observation made from a substance on a surface. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Water compartment (wat). A measure or observation made from a substance in the water, including wastewater. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Water compartment set

(waterCompartmentSet)A compartment set for measures and methods in the water compartment. Status: active. First Released: 1.0.0. Last updated: 2.0.0.

Water compartment (wat). A measure or observation made from a substance in the water, including wastewater. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Data types

(dataTypes). The data type for a part. Data types used in the ODM include: varchar, boolean, float, category, date, time, datetime, url, email. dataType corresponds the the entry or cell within a data table, most commonly within a report table. If the data entry has a unit, then the dataType corresponds to the unit and the dataType refers to ‘unit’. If the data entry is a category, then the dataType refers to ‘category’. All

Sets

categories are varchar. Otherwise the dataType is identified within the part entry. TBA: dataType for dictionary.

Binary Large Object (BLOB) data type (blob). The data type for Binary Large Object (BLOB) data. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Boolean data type (boolean). The data type for boolean/binary data. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Categorical data type (categorical). The data type for categorical data. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Datetime data type (datetime). The data type for date and time data. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Float data type (float). The data type for float data. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Integer data type (integer). The data type for integers. Status: active. First released: 2.0.0. Last updated: 2.0.0.

See unit (data type) (seeUnitData). The data type entry when the data type for a given entry is specified by the unit used. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Variable character data type (varchar). The data type for variable character data. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dictionary set type

(dictSets). Sets used to describe and group dictionary tables.

Airport Sheets Set

(airportSheetSet)Worksheets in the full airport surveillance template (list + template). ‘ODM_template-planes_{version}.xlsx Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Airport lists worksheet (airportLists). Parts lists used to generate airport and airplane data entry templates. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Airport Surveillance Template (airportTemplate). The input template for airport and airplane surveillance in the EU. Status: active. First released: 2.0.0. Last updated: 2.1.0.

Contact table set

(contactTableSet)Tables are where measures, methods and attributes are recorded. Tables represent the main entities of the environmental surveillance. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Address table (addresses). The table that contains information about addresses. Addresses can be recorded for sites, organizations or contacts (individuals). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Contact table (contacts). The table that contains information about a contact; a person who is the contact of a site or laboratory. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Organization table (organizations). The table that contains information about a laboratory. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sites table (sites). The table that contains information about a site; the location where an environmental sample was taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Crosswalk table set

(crosswalkTableSet)Tables used to translate to and from other environmental dictionaries and models. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

European Nucleotide Association (enaMap). ENA header Status: active. First released: 2.0.0. Last updated: 2.0.0.

European Nucleotide Association (ENA) - notes (enaNotes). ENA notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

National Center for Biotechnology Information (ncbi). NCBI header Status: active. First released: 2.0.0. Last updated: 2.0.0.

NCBI - notes (ncbiNotes). NCBI notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

NORMAN (norman). NORMAN header Status: active. First released: 2.0.0. Last updated: 2.0.0.

NORMAN - notes (normanNote). Norman notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

National Wastewater Surveillance System (nwss). NWSS header Status: active. First released: 2.0.0. Last updated: 2.0.0.

NWSS - notes (nwssNotes). NWSS notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

NWSS - process (nwssProcess). NWSS process Status: active. First released: 2.0.0. Last updated: 2.0.0.

PHAGE (phage). PHAGE header Status: active. First released: 2.0.0. Last updated: 2.0.0.

PHAGE - notes (phageNotes). PHAGE notes Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dictionary set type

ODM V1 category (version1Category). ODM V1 category Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM V1 location (version1Location). ODM V1 location Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM V1 table (version1Table). ODM V1 table Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM version 1 to 2 changes (version1to2Changes). Changes for part between ODM v1 and V2 Status: active. First released: 2.0.0. Last updated: 2.0.0.

ODM V1 variable (version1Variable). ODM V1 variable Status: active. First released: 2.0.0. Last updated: 2.0.0.

World Sphere (W-SPHERE) (wSphere). World Sphere header Status: active. First released: 2.0.0. Last updated: 2.0.0.

World Sphere (W-SPHERE) notes (wSphereNotes). W-Sphere notes Status: active. First released: 1.0.0. Last updated: 2.0.0.

Dictionary reference table set

(dictionaryRefTableSet)Reference or look-up tables. For example, the parts table describe all elements of the ODM, including tables, table headers, measures, methods, categories, and units. sets are collections of parts. For example, units can be grouped together in a unitSet. languages and translations support translations. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Countries look-up tables (countries). Look up table for the possible country inputs. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Sets

Language Look-up table (languages). Look up table for all languages, used to give structure to the translation table. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Parts Look-up table (parts). Look up table containing all parts in of the data model. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets look-up table (sets). Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Translation look-up table (translations). Look up table for translations of the description, label, and instruction for all parts. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Zones look-up table (zones). Look up table for the possible sub-national region or zone inputs. Status: active. First released: 2.1.0. Last updated: 2.1.0.

ERD table set

(erdTableSet)All tables listed in the Entity Relationship Diagram. The full ODM model is commonly referred to as “long” tables as it stores data with one measurement per row. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Address table (addresses). The table that contains information about addresses. Addresses can recorded for sites, organizations or contacts (individuals). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Contact table (contacts). The table that contains information about a contact; a person who is the contact of a site or laboratory. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dictionary set type

Countries look-up tables (countries). Look up table for the possible country inputs. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Dataset table (datasets). A report table for capturing details about data's parental data set and data custodians. Supplying attribution for data collectors. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Instrument table (instruments). The table that contains information about instruments. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Language Look-up table (languages). Look up table for all languages, used to give structure to the translation table. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure report table (measures). The table that contains information and details about a given measure Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measure set report table (measureSets). The table that identifies sets of measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Organization table (organizations). The table that contains information about a laboratory. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Parts Look-up table (parts). Look up table containing all parts in of the data model. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Polygon table (polygons). The table that contains information about the geometry of a geographic area. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Protocol relationships table (protocolRelationships). The table that contains the organizational information and details (such as order) about

Sets

a given protocol, recorded as a series of protocol steps (protocolSteps). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocols table (protocols). The table for protocols. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol steps table (protocolSteps). The table for collecting metadata on individual steps in a protocol, methodological process, or assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Quality reports table (qualityReports). The table for recording the various quality metrics and indicators for samples and measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Reporter table depreciated (reportersDep). The table that contains information about a reporter of a sample, method, measure, or attribute. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Sample relationships table (sampleRelationships). Table for recording the relationships between samples. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample report table (samples). The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets look-up table (sets). Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sites table (sites). The table that contains information about a site; the location where an environmental sample was taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Zones look-up table (zones). Look up table for the possible sub-national region or zone inputs. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Dictionary set type

Full dictionary sheets set

(fullDictionarySheetSet) Worksheets in the full Excel dictionary. The full dictionary is ‘ODM_full-dictionary.xlsx’ Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Address table (addresses). The table that contains information about addresses. Addresses can be recorded for sites, organizations or contacts (individuals). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Contact table (contacts). The table that contains information about a contact; a person who is the contact of a site or laboratory. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Countries look-up tables (countries). Look up table for the possible country inputs. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Dataset table (datasets). A report table for capturing details about data’s parental data set and data custodians. Supplying attribution for data collectors. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Instrument table (instruments). The table that contains information about instruments. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Language Look-up table (languages). Look up table for all languages, used to give structure to the translation table. Status: active. First released: 2.0.0. Last updated: 2.0.0.

List worksheet (lists). Parts lists for template dropdowns and other documentation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure report table (measures). The table that contains information and details about a given measure Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Measure set report table (measureSets). The table that identifies sets of measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Organization table (organizations). The table that contains information about a laboratory. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Parts Look-up table (parts). Look up table containing all parts in of the data model. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Polygon table (polygons). The table that contains information about the geometry of a geographic area. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Protocol relationships table (protocolRelationships). The table that contains the organizational information and details (such as order) about a given protocol, recorded as a series of protocol steps (protocolSteps). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocols table (protocols). The table for protocols. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol steps table (protocolSteps). The table for collecting metadata on individual steps in a protocol, methodological process, or assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Quality reports table (qualityReports). The table for recording the various quality metrics and indicators for samples and measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample relationships table (sampleRelationships). Table for recording the relationships between samples. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample report table (samples). The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Dictionary set type

Sets look-up table (sets). Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sites table (sites). The table that contains information about a site; the location where an environmental sample was taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Summary worksheet (summary). Summary sheet of the dictionary.xlsx file. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Translation look-up table (translations). Look up table for translations of the description, label, and instruction for all parts. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wide name table (wideNames). The table for wide names. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Zones look-up table (zones). Look up table for the possible sub-national region or zone inputs. Status: active. First released: 2.1.0. Last updated: 2.1.0.

List set

(listSet)PartTypes that contain categories, sets, or lists. Used to generate documentation. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Aggregations (aggregations). Statistical measures used to report a measure. Each measure reported as a number should be reported with an aggregation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Aggregation scales (aggregationScales). The scale of an aggregation set. Aggregation scales include quantitative and qualitative. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Attributes (attributes). Attributes describe the who, where, when, and why of environmental surveillance. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Classes (classes). A class is a collection of one or more related measures or methods within a group. A group can have one or more classes to describe different parts of the class. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Compartments (compartments). The substance from which a sample was taken. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Data types (dataTypes). The data type for a part. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Domains (domains). There are three domain types: biologic (i.e. Covid-19), chemical (i.e. nitrogen), physical measure (temperature). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Groups (groups). A collection of related measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measures (measurements). The attribute to describe a part type of measures. All measures have partType = “measure”. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Methods (methods). Procedures or steps for collecting samples or performing measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Missingness (missingness). The part type for missingness values. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Nomenclatures (nomenclatures). A classification system to report the measure class. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality indicators (qualityIndicators). A measure of the quality of a reported value or sample. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dictionary set type

Specimens (specimens). Measures or observations are taken from three types of substances: populations (humans or geographic areas), samples, sites. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Tables (tables). Tables are where measures, methods and attributes are recorded. Tables represent the main entities of the environmental surveillance. There Status: active. First released: 2.0.0. Last updated: 2.0.0.

Units (units). The unit of the measurement. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Other report table set

(otherReportTableSet)Additional tables that form the full data model. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Dataset table (datasets). A report table for capturing details about data's parental data set and data custodians. Supplying attribution for data collectors. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Polygon table (polygons). The table that contains information about the geometry of a geographic area. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Protocol table set

(protocolTableSet)Tables holding information on the methods used for sample collection or measurement. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Instrument table (instruments). The table that contains information about instruments. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Protocol relationships table (protocolRelationships). The table that contains the organizational information and details (such as order) about a given protocol, recorded as a series of protocol steps (protocolSteps). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocols table (protocols). The table for protocols. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol steps table (protocolSteps). The table for collecting metadata on individual steps in a protocol, methodological process, or assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Regular reports table set

(regularReportTableSet)Tables used for daily reporting of new measurements and information on sample collection. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Measure report table (measures). The table that contains information and details about a given measure Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample report table (samples). The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Template Sheet Set

(templateSheetSet)Worksheets in the full generic ODM surveillance template (all tables). Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Dictionary set type

Address table (addresses). The table that contains information about addresses. Addresses can be recorded for sites, organizations or contacts (individuals). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Contact table (contacts). The table that contains information about a contact; a person who is the contact of a site or laboratory. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dataset table (datasets). A report table for capturing details about data's parental data set and data custodians. Supplying attribution for data collectors. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Instrument table (instruments). The table that contains information about instruments. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Language Look-up table (languages). Look up table for all languages, used to give structure to the translation table. Status: active. First released: 2.0.0. Last updated: 2.0.0.

List worksheet (lists). Parts lists for template dropdowns and other documentation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure report table (measures). The table that contains information and details about a given measure. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measure set report table (measureSets). The table that identifies sets of measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Organization table (organizations). The table that contains information about a laboratory. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Parts Look-up table (parts). Look up table containing all parts in of the data model. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Polygon table (polygons). The table that contains information about the geometry of a geographic area. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Protocol relationships table (protocolRelationships). The table that contains the organizational information and details (such as order) about a given protocol, recorded as a series of protocol steps (protocolSteps). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocols table (protocols). The table for protocols. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol steps table (protocolSteps). The table for collecting metadata on individual steps in a protocol, methodological process, or assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Quality reports table (qualityReports). The table for recording the various quality metrics and indicators for samples and measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample relationships table (sampleRelationships). Table for recording the relationships between samples. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample report table (samples). The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets look-up table (sets). Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sites table (sites). The table that contains information about a site; the location where an environmental sample was taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Domains

Domains

(domains). There are three domain types: biologic (i.e. Covid-19, chemical (i.e. nitrogen), physical measure (temperature).

All domains (allDo). Domain that specifies that it could apply to all domains; biological, chemical, and physical. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Biologic (bio). A living organism or biological substance. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Chemical (che). A chemical compound. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Domain not applicable (naDomain). Not applicable. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Physical property (phy). A physical property or object not characterized by life or chemistry. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Groups

(groups). A collection of related measures. Used primary to group measurements and methods, this helps pare down the drop down list for a given measurement or

Acinetobacter Group (acinetobacterGrp). A group of measures/methods related to acinebacter bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Adenovirus Group (adenovirusGrp). A group of measures/methods related to Adenoviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Anti-microbial resistance Group (amrGrp). The group for measures and methods pertaining to anti-microbial resistant microbes (general). Status: active. First released: 2.1.0. Last updated: 2.1.0.

Anaplasma Group (anaplasmaGrp). A group of measures/methods related to anaplasma bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Astrovirus Group (astrovirusGrp). A group of measures/methods related to astroviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Babesia or Nuttallia Group (babesiaGrp). A group of measures/methods related to babesia parasites. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Bacteroides Group (bacteroidesGrp). A group of measures/methods related to bacteroides bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Miscellaneous bacteria group (bactMisc). A group of measures/methods related to miscellaneous bacteria. Status: depreciated. First released: 2.0.0. Last updated: 2.2.0.

Beta Coronavirus Group (betaCoronaGrp). A group of measures/methods related to beta coronaviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Beta-Lactamase Anti-microbial resistance Group (bLacAMRGrp). The group for measures and methods pertaining to beta-lactamase-related anti-microbial resistance. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Groups

Borrelia burgdorferi or Lyme Disease Group (borreliaGrp). A group of measures/methods related to Borrelia burgdorferi or Lyme Disease. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Brucella Group (brucellaGrp). A group of measures/methods related to brucella bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Campylobacter Group (campGrp). A group of measures/methods related to campylobacter bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Candida auris Group (cAurisGrp). A group of measures/methods related to Candida auris. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Chlamydia Group (chlamydiaGrp). A group of measures/methods related to chlamydia bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Chikungunya Group (chikungunyaGrp). A group of measures/methods related to chikungunya virus. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Clostridium Group (clostridiumGrp). A group of measures/methods related to clostridium bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Colistin Anti-microbial resistance group (colAMRGrp). The group for measures and methods pertaining to colistin-related anti-microbial resistance. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Collection group (colGrp). A group of measurement-like attributes related to sample collection. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Cryptosporidium Group (cryptosporidiumGrp). A group of measures/methods related to cryptosporidium parasites. Status: active. First released: 2.2.0. Last updated: 2.2.0.

SARS-CoV-2 Delta Variant Group (deltaGrp). A group of measures/methods related to the SARS-CoV-2 Delta Variant. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Diphtheria Group (diphtheriaGrp). A group of measures/methods related to the diphtheria bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Escherichia coli group (ecoliGrp). A group of measures/methods related to Escherichia coli bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Enterovirus Group (enterovirusGrp). A group of measures/methods related to enteroviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Flavivirus (West Nile, Dengue, Zika) Group (flavivirusGrp). A group of measures/methods related to flaviviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

FLoRT/SLip Variant Group (flirtSLipGrp). The group for measures and methods pertaining to the FLoRT and SLip variants of SARS-CoV-2. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Influenza A Virus Group (fluAGrp). A group of measures/methods related to Influenza A viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Influenza B Virus Group (fluBGrp). A group of measures/methods related to Influenza B viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Groups

Gonococcus Group (gonococcusGrp). A group of measures/methods related to gonococcus bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Haemophilus Group (haemophilusGrp). A group of measures/methods related to haemophilus bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Hepatitis Group (hepGrp). A group of measures/methods related to hepatitis viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Herpes Virus Group (herpesGrp). A group of measures/methods related to herpes viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

HIV Group (hivGrp). A group of measures/methods related to Human Immunodeficiency Virus (HIV). Status: active. First released: 2.2.0. Last updated: 2.2.0.

Rhinovirus Group (hrvGrp). A group of measures/methods related to rhinoviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Integrase Anti-microbial resistance Group (intAMRGrp). The group for measures and methods pertaining to integrase-related anti-microbial resistance. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Klebsiella Group (klebsiellaGrp). A group of measures/methods related to klbsiella bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Legionella Group (legionellaGrp). A group of measures/methods related to legionella bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Lentivirus Group (lentiGrp). A group of measures/methods related to lentiviruses, including viral vectors such as the Puro virus vector. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Listeria Group (listeriaGrp). A group of measures/methods related to listeria bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Plasmodium or Malaria Group (malariaGrp). A group of measures/methods related to plasmodium parasites or malaria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measurement group (measGrp). A group of measures that cannot be otherwise categorized. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measles Group (measlesGrp). A group of measures/methods related to the measles virus. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Metabolite Group (metaboliteGrp). A group of measures/methods related to metabolites. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Miscellaneous attribute group (miscAttr). A group of miscellaneous measurement-like attributes. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Miscellaneous measure group (miscMeas). A group of measures that cannot be otherwise categorized. Status: active. First released: 2.0.0. Last updated: 2.0.0.

MPox Group (mpoxGrp). A group of measures/methods related to Mpox (formerly “Monkey Pox”). Status: active. First released: 2.2.0. Last updated: 2.2.0.

Groups

Metapneumovirus Group (mpvGrp). A group of measures/methods related to metapneumoviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

MPox Clade I Group (mpoxCldIGrp). A group of measures/methods related to Mpox Clade I (formerly “Monkey Pox”). Status: active. First released: 2.2.0. Last updated: 2.2.0.

MPox Clade II Group (mpoxCldIIGrp). A group of measures/methods related to Mpox Clade II (formerly “Monkey Pox”). Status: active. First released: 2.2.0. Last updated: 2.2.0.

Mumps Group (mumpsGrp). A group of measures/methods related to the mumps virus. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Mycoplasma Group (mycoplasmaGrp). A group of measures/methods related to mycoplasma bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Group not applicable (naGroup). Used when there is no group; ie. group is not applicable. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Norovirus GI Group (noroGIGrp). A group of measures/methods related to norovirus GI. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Norovirus GII Group (noroGIIGrp). A group of measures/methods related to norovirus GII. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Norovirus Group (noroGrp). A group of measures/methods related to noroviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

SARS-CoV-2 Omicron Variant Group (omicronGrp). A group of measures/methods related to the SARS-CoV-2 Omicron Variant. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Orthopox Virus Group (orthoGrp). A group of measures/methods related to orthopox viruses (excluding variola viruses). Status: active. First released: 2.2.0. Last updated: 2.2.0.

Papilomavirus Group (papilomavirusGrp). A group of measures/methods related to papilomaviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Parainfluenza Group (parafluGrp). A group of measures/methods related to parainfluenza viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Bacteriophage Group (phageGrp). A group of measures/methods related to bacteriophages. Status: active. First released: 2.2.0. Last updated: 2.2.0.

PMMoV Group (pmmovGrp). A group of measures/methods related to the Pepper Mild Mottle Virus (PMMoV). Status: active. First released: 2.2.0. Last updated: 2.2.0.

Poliovirus Group (polioGrp). A group of measures/methods related to polioviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Population group (popGrp). A group of measures/methods related to population-level factors. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Processing group (procGrp). A group of measures/methods related to processing samples for analysis. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Pseudomonas Group (pseudomonasGrp). A group of measures/methods related to pseudomonas bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Rickettsia Group (rickettsiaGrp). A group of measures/methods related to rickettsia parasites. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Groups

Rotavirus Group (rotavirusGrp). A group of measures/methods related to rotaviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Respiratory syncytial virus (RSV) Group (rsvGrp). Human Respiratory Syncytial virus (RSV). Status: active. First released: 2.0.0. Last updated: 2.1.2.

Rubella Group (rubellaGrp). A group of measures/methods related to the rubella virus. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Salmonella Group (salmonellaGrp). A group of measures/methods related to salmonella bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sapovirus Group (sapovirusGrp). A group of measures/methods related to sapoviruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

SARS-CoV-2 (sarsCov2). A group of measures/methods related to the SARS-CoV-2 virus. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Shigella Group (shigellaGrp). A group of measures/methods related to shigella bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Site features group (siteFeat). A group of environmental measures/methods and those pertaining to the features of a site. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Staphylococcus Group (staphGrp). A group of measures/methods related to staphylococcus bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Streptococcus Group (strepGrp). A group of measures/methods related to streptococcus bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Tetracycline Anti-microbial resistance Group (tetAMRGrp). The group for measures and methods pertaining to tetracycline-related anti-microbial resistance. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Treponema Group (treponemaGrp). A group of measures/methods related to treponema bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Trichomonas Group (trichomonasGrp). A group of measures/methods related to trichomonas bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Tuberculosis Group (tuberculosisGrp). A group of measures/methods related to tuberculosis. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Francisella tularensis (tularemia) Group (tularemiaGrp). A group of measures/methods related to Francisella tularensis. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Ureaplasma (ureaplasmaGrp). A group of measures/methods related to ureaplasma bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Vancomycin Anti-microbial resistance Group (vanAMRGrp). The group for measures and methods pertaining to vancomycin-related anti-microbial resistance. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Varicella Group (varicellaGrp). A group of measures/methods related to varicella viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measures

Vibrio Group (vibrioGrp). A group of measures/methods related to vibrio bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Miscellaneous viruses group (virusMisc). A group of measures/methods related to miscellaneous viruses. Status: depreciated. First released: 1.0.0. Last updated: 2.2.0.

Vesicular Stomatitis Virus (VSV) Group (vsvGrp). A group of measures/methods related to Vesicular Stomatitis Virus (VSV). Status: active. First released: 2.2.0. Last updated: 2.2.0.

Water Quality Group (waterQualityGrp). A group of measures/methods related to water quality. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Yersinia Group (yersiniaGrp). A group of measures/methods related to yersinia bacteria. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Influenza Virus General Group (fluGrp). A group of measures/methods related to general influenza viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measures

(measurements). The attribute to describe a part type of measures. All measures have `partType = "measure"`.

a1306s delta-variant gene target (a1306s). a1306s delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

a1918v delta-variant gene target (a1918v). a1918v delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

a2710t omicron-variant gene target (a2710t). a2710t omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

a63t omicron-variant gene target (a63t). a63t omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

a67v omicron-variant gene target (a67v). a67v omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Omicron Variant a67v del69 and del70 mutations (a67vDel69Del70). Omicron Variant a67v mutation, and del 69 and del70 mutations co-occurring Status: active. First released: 2.2.0. Last updated: 2.2.0.

Absolute humidity (absHum). A measure of the total mass of water vapour present in the air per volume of air. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Acinetobacter (acinetobacter). Acinetobacter Status: active. First released: 2.2.0. Last updated: 2.2.0.

Adenovirus (F40/41) (adenovirusF40). Adenovirus (F40/41) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Adenovirus 40 (adv40). Adenovirus serotype 40. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Adenovirus 41 (adv41). Adenovirus serotype 41. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Adenovirus F41 Fibre Gene Target (advF41Fibre). Human Adenovirus Group F41 Fiber gene target Status: active. First released: 2.1.0. Last updated: 2.1.0.

Environmental temperature (airTemp). Environmental temperature. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Assay Limit of Detection (LOD) (alod). The minimum level of a target consistently detectable (e.g., with 95% probability) using the assay

Measures

considering only the amplification and quantification steps of RT-qPCR.
Status: active. First released: 2.2.0. Last updated: 2.2.0.

Anaplasma phagocytophilum (aPhagocytophilum). Anaplasma phagocytophilum Status: active. First released: 2.2.0. Last updated: 2.2.0.

Arrival temperature (arTemp). The temperature of a sample upon arrival at the laboratory for analysis. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Astrovirus (astrovirus). Astrovirus Status: active. First released: 2.2.0. Last updated: 2.2.0.

Mpox B6R Gene Target (mpxB6R). Human MPox Virus (hMPXV) gene target. Envelope protein gene CDC Assay; selective for MPXV. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Babesia (babesia). Babesia Status: active. First released: 2.2.0. Last updated: 2.2.0.

Borrelia burgdorferi (bBurgdorferi). Borrelia burgdorferi Status: active. First released: 2.2.0. Last updated: 2.2.0.

bcov (bcov). Measure of the amount of bovine coronavirus. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Beta (beta). B.1.351 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Cephamycin Beta-Lactamase-Resistance gene target (blaCMY). Cephamycin Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

CTX-M Beta-Lactamase-Resistance gene target (blaCTXM1). CTX-M Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Impenemase (IMP) Beta-Lactamase-Resistance gene target (blaIMP). Impenemase (IMP) Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Klebsiella pneumoniae Carbapenam (KPC) Beta-Lactamase-Resistance gene target (blaKPC). Klebsiella pneumoniae Carbapenam (KPC) Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

New-Delhi Metallo- (NDM) Beta-Lactamase-Resistance gene target (blaNDM). New-Delhi Metallo- (NDM) Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

OXA-type Beta-Lactamase-Resistance gene target (blaOXA48). OXA-type Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

SHV Beta-Lactamase-Resistance gene target (blaSHV). SHV-type Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

TEM Beta-Lactamase-Resistance gene target (blaTEM). TEM-type Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Verone Integron-Encoded Metallo- (VIM) Beta-Lactamase-Resistance-resistance gene target (blaVIM). Verone Integron-Encoded Metallo- (VIM) Beta-Lactamase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

5-Day carbonaceous biochemical oxygen demand (bod5c). The quantity of oxygen utilized for the biochemical degradation of organic matter under standard laboratory procedures in five (5) days in the presence of a nitrification inhibitor, expressed in milligrams per litre (mg/l). Status: active. First released: 1.1.0. Last updated: 2.0.0.

Measures

5-day total biochemical oxygen demand (bod5t). 5 day total biochemical oxygen demand. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Bovine respiratory syncytial virus group (brsv). Bovine respiratory syncytial virus. Status: active. First released: 2.0.0. Last updated: 2.0.0.

BRSV-N (brsvN). bovine respiratory syncytial virus capsid protein gene region Status: active. First released: 1.0.0. Last updated: 2.0.0.

Brucella (brucella). Brucella Status: active. First released: 2.2.0. Last updated: 2.2.0.

Clade I Mpox C3L Gene Target (mpxC3L). Human MPox Virus (hMPXV) Clade I gene target. hMPXV C3L primers and probe, detect Clade I viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Caffeine (caff). Caffeine (usually measured as a human fecal chemical indicator) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Campylobacter (camp). Campylobacter. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Candida auris (cAuris). The yeast species Candida auris, or C. auris. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Carbapenemase-encoding genes (cbp). Carbapenemase-encoding genes. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Clostridium difficile (cDiff). Clostridium difficile Status: active. First released: 2.2.0. Last updated: 2.2.0.

Corynebacterium diphtheriae (cDip). Corynebacterium diphtheriae Status: active. First released: 2.2.0. Last updated: 2.2.0.

Centrifugation speed (centSpeed). Centrifugation speed Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Chikungunya virus (CHIKV) (chikv). Chikungunya virus (CHIKV) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Chlamydia (chlamydia). Chlamydia Status: active. First released: 2.2.0. Last updated: 2.2.0.

Campylobacter jejuni bacteria (cJejuni). Campylobacter jejuni gene target/measurement Status: active. First released: 2.1.0. Last updated: 2.1.0.

Carbon Dioxide (co2). A measure of an amount or concentration of carbon dioxide. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Chemical Oxygen Demand (cod). Chemical oxygen demand. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Time from collection to storage (col2Frdg). The amount of time between sample collection and the samples placement in stable storage/refrigeration. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Colistin resistance (colis). Colistin-resistant bacteria. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Concentration measure (conc). Measurement of concentration (generalized) - designed for describing protocols. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sample volume after concentration (concVol). The total volume of a sample after the concentration step. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Water conductivity (cond). Measurement of conductivity of sample or site. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Covid-19 (cov). Covid-19 infection. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measures

SARS-CoV-2 measure (cov2Me). Measure the amount of SARS-CoV-2 virus. Status: active. First released: 2.0.0. Last updated: 2.0.0.

SARS-CoV-2-B.1.1.7 (covB117). Variant B.1.1.7 of the SARS-CoV-2 virus. Status: active. First released: 1.1.0. Last updated: 2.0.0.

SARS-CoV-2-B.1.351 (covB135). Variant B.1.351 of the SARS-CoV-2 virus. Status: active. First released: 1.1.0. Last updated: 2.0.0.

SARS-CoV-2-E (covE). SARS-CoV-2 E gene. Status: active. First released: 1.0.0. Last updated: 2.0.0.

SARS-CoV-2-N1 (covN1). SARS-CoV-2 nucleocapsid gene, allele 1. Status: active. First released: 1.0.0. Last updated: 2.0.0.

SARS-CoV-2-N2 (covN2). SARS-CoV-2 nucleocapsid gene, allele 2. Status: active. First released: 1.0.0. Last updated: 2.0.0.

SARS-CoV-2-N200 (covN200). SARS-CoV-2 nucleocapsid gene, amino acids 199-202. Status: active. First released: 2.0.0. Last updated: 2.0.0.

SARS-CoV-2-N3 (covN3). SARS-CoV-2 nucleocapsid gene, allele 3. Status: active. First released: 1.0.0. Last updated: 2.0.0.

SARS-CoV-2-P.1 (covP1). Variant P.1 of the SARS-CoV-2 virus. Status: active. First released: 1.1.0. Last updated: 2.0.0.

SARS-CoV-2-RdRp (covRdrp). SARS-CoV-2 RdRp gene. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Clostridium perfringens (cPerfrigens). Clostridium perfringens Status: active. First released: 2.2.0. Last updated: 2.2.0.

crAssphage-N (cra). crAssphage virus capsid protein gene region Status: active. First released: 1.0.0. Last updated: 2.0.0.

Creatinine (crea). Creatinine (usually measured as a human fecal chemical indicator) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Cryptosporidium (cryptosporidium). Cryptosporidium Status: active. First released: 2.2.0. Last updated: 2.2.0.

Circulating vaccine-derived poliovirus type 2 (cVDPV2). Circulating vaccine-derived poliovirus type 2 Status: active. First released: 2.2.0. Last updated: 2.2.0.

Number of cycles (cyNum). The number of cycles of a PCR machine, or any other cycling process. Status: active. First released: 2.2.0. Last updated: 2.2.0.

D339H Mutation (d339h). The FLiT/SLip variant mutation D339H. Status: active. First released: 2.2.0. Last updated: 2.2.0.

d377y delta-variant gene target (d377y). d377y delta-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

d3g omicron-variant gene target (d3g). d3g omicron-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

d63g delta-variant gene target (d63g). d63g delta-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

d796y omicron-variant gene target (d796y). d796y omicron-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

d950n delta-variant gene target (d950n). d950n delta-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ddcov_e sars-cov-2 gene target (ddcovE). ddcov_e sars-cov-2 gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ddcov_n sars-cov-2 gene target (ddcovN). ddcov_n sars-cov-2 gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Omicron Variant 142-144 Deletion (del142144). Omicron Variant 142-144 Deletion Status: active. First released: 2.2.0. Last updated: 2.2.0.

del143/145 (del143). 143 or 145 deletion omicron-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measures

Delta Variant 156-157 Deletion (del156157). Delta Variant 156-157 Deletion Status: active. First released: 2.2.0. Last updated: 2.2.0.

del 157/158 (del157). 157 or 158 deletion delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

del2084/2084 (del2084). 2084 or 2084 deletion omicron-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

del212/212 (del212). 212 or 212 deletion omicron-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Omicron Variant 142-14431-33 Deletion (del3133). Omicron Variant 142-14431-33 Deletion Status: active. First released: 2.2.0. Last updated: 2.2.0.

del3674/3676 (del3674). 3674 or 3676 deletion omicron-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

del69/70 (del6970). 69 or 70 deletion omicron-variant gene target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Delta (delta). B.1.617.2 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Dengue (dengue). Dengue Status: active. First released: 2.2.0. Last updated: 2.2.0.

Dilution factor (dilFact). Specifies the extent to which a sample or aliquot was diluted prior to analysis. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Point dilutions (dillute). Exact concentration or dilutions for generating a standard curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Duration time of a method (duration). The duration of time for a given method as described in protocols. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

e156g delta-variant gene target (e156g). e156g delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

e484a omicron-variant gene target (e484a). e484a omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Mpox & Orthopox E9L-NVAR Gene Target (mpxe9lNVAR). Human MPox Virus (hMPXV) gene target for Orthopoxvirus DNA polymerase. CDC Assay detects all hMPXV, Äö/Ñ/£ clades and non-variola Orthopox viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Mpox & Orthopox E9L-OPX3 Gene Target (mpxe9lOPX3). Human MPox Virus (hMPXV) gene target using the generic orthopox virus OPX3. Lower sensitivity for MPox. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Enteroinvasive Escherichia coli (EAEC) (eacc). Enteroinvasive Escherichia coli (EAEC) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Epstein,Äö/Ñ/“Barr virus (EBV) (ebv). Epstein,Äö/Ñ/“Barr virus (EBV), formerly known as Human gammaherpesvirus 4 Status: active. First released: 2.2.0. Last updated: 2.2.0.

Escherichia coli (ecoli). Concentration of bacteria that are passed through the faecal excretion of humans, livestock and wildlife Status: active. First released: 2.0.0. Last updated: 2.0.0.

Enterohemorrhagic Escherichia coli (EHEC) (ehec). Enterohemorrhagic Escherichia coli (EHEC) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Enteroinvasive Escherichia coli (EIEC) (eiec). Enteroinvasive Escherichia coli (EIEC) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measures

Enterovirus (enterovirus). Enterovirus Status: active. First released: 2.2.0. Last updated: 2.2.0.

Rainfall (envRnF). Rainfall, i.e. amount of precipitation in the form of rain. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Ground snow depth (envSnwD). Total depth of snow on the ground. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Snowfall (envSnwF). Snowfall, i.e. amount of precipitation in the form of snow. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Enteropathogenic Escherichia coli (EPEC) (epec). Enteropathogenic Escherichia coli (EPEC) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sarbecovirus-specific E sars-cov-2 gene target (eSarbec). Sarbecovirus-specific E sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

ESBL-encoding genes (esbl). Extended-spectrum beta-lactamase-encoding genes. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Estimated frequency of reads (estFreqReads). Estimated frequency of reads in a sequencing assay Status: active. First released: 2.0.0. Last updated: 2.0.0.

Enterotoxigenic Escherichia coli (ETEC) (etec). Enterotoxigenic Escherichia coli (ETEC) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Extraintestinal pathogenic Escherichia coli (ExPEC) (expec). Extraintestinal pathogenic Escherichia coli (ExPEC) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Extraction volume of sample (exvol). Extraction volume of sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

F456L Mutation (f456l). The FLiRT/SLip variant mutation F456L. Status: active. First released: 2.2.0. Last updated: 2.2.0.

F+ DNA coliphage (fDNA). F+ DNA coliphage Status: active. First released: 2.2.0. Last updated: 2.2.0.

Final volume (finVol). The final volume of a testing solution or sample. Status: active. First released: 2.2.0. Last updated: 2.2.0.

FLiRT Variants (flirtV). FLiRT is the name given to an entire family of COVID-19 subvariants that are gaining dominance. They've evolved from the JN.1 subvariant. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Flow rate (floRate). Wastewater volumetric flow rate at the sample collection location over the 24-hr period during which the sample was collected. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Flow volume (flowVol). Volume of influent. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Influenza virus measure (flu). General influenza virus measure Status: active. First released: 2.0.0. Last updated: 2.0.0.

Influenza A virus (fluA). Influenza A virus. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Influenza virus A1 (fluA1). Influenza virus A1 type Status: active. First released: 2.0.0. Last updated: 2.0.0.

Influenza virus A1 and A2 combined (fluA1A2c). Measure of influenza virus A1 and A2 combined, usually due to single fluorescence channel. Status: active. First released: 2.0.0. Last updated: 2.0.0.

influenza virus A2 (fluA2). influenza virus A2 type Status: active. First released: 2.0.0. Last updated: 2.0.0.

Influenza virus B (fluB). Influenza virus B type Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measures

F-Specific RNA bacteriophages (fRNABact). A measure for amount of F-Specific RNA bacteriophages. Status: active. First released: 2.0.0. Last updated: 2.0.0.

F+ RNA coliphage (fRNAColi). F+ RNA coliphage Status: active. First released: 2.2.0. Last updated: 2.2.0.

F-Specific RNA bacteriophages, G2 (frnaG2). A measure for amount of G2 F-Specific RNA bacteriophages. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Field sample temperature (fst). Temperature that the sample is stored at while it is being sampled. This field is mainly relevant for composite samples which are either kept at ambient temperature or refrigerated while being sampled. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Francisella tularensis (fTularensis). Francisella tularensis Status: active. First released: 2.2.0. Last updated: 2.2.0.

g215c delta-variant gene target (g215c). g215c delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Mpox G2R-G Gene Target (mpxG2RG). Human MPox Virus (hMPXV) gene target using the G2R_G primers and, Äö, Ñ, öprobe which, Äö, Ñ, ödetects all MPox Virus strains, Äö, Ñ, ö, Äö, Ñ, £. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Clade II Mpox G2R-WA Gene Target (mpxG2RWA). Human MPox Virus (hMPXV) Clade II gene target, measured with G2R_WA primers and probe to detects Clade II viruses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

g339d omicron-variant gene target (g339d). g339d omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

g496s omicron-variant gene target (g496s). g496s omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

g662s delta-variant gene target (g662s). g662s delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gamma (gam). P.1 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Mpox GT Molecular Gene Target (mpxGTmol). Human MPox Virus (hMPXV) gene target - this specific measure and gene target are proprietary to GT Molecular Status: active. First released: 2.2.0. Last updated: 2.2.0.

Influenza A H5 hemagglutinin gene (h5hema). Measure of the H5 hemagglutinin gene from the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. Status: active. First released: 2.2.0. Last updated: 2.2.0.

H5N1 avian influenza A virus (IAV) (h5n1). General measurement for the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Haemophilus ducreyi (hDucreyi). Haemophilus ducreyi Status: active. First released: 2.2.0. Last updated: 2.2.0.

Hepatitis A (hepA). Hepatitis A Status: active. First released: 2.2.0. Last updated: 2.2.0.

Hepatitis B (hepB). Hepatitis B Status: active. First released: 2.2.0. Last updated: 2.2.0.

Hepatitis C (hepC). Hepatitis C Status: active. First released: 2.2.0. Last updated: 2.2.0.

Hepatitis E (hepE). Hepatitis E Status: active. First released: 2.2.0. Last updated: 2.2.0.

hep g armored rna (hepGRna). Measure of the amount Hepatitis G Armored RNA. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measures

HF183 Bacteroides 16S (hf183). Human-Specific HF183 Bacteroides 16S rRNA Status: active. First released: 2.2.0. Last updated: 2.2.0.

5-hydroxyindoleacetic acid (5-HIAA) (hiaa5). A serotonin metabolite used for normalizing wastewater surveillance signal. Analysis of 5-HIAA is done in clinical settings to assess the possibility of carcinoid syndrome in patients, and used in wastewater analysis to estimate human population numbers. Studies have shown that 5-HIAA can be quantified in samples from WWTPs, and that measured quantities of this molecule have a positive correlation with the population calculated using hydrochemical parameters, and are also correlated well with the census population measures. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Haemophilus influenzae (hInfluenzae). Haemophilus influenzae Status: active. First released: 2.2.0. Last updated: 2.2.0.

Human Immunodeficiency Virus (HIV) (hiv). Human Immunodeficiency Virus (HIV) Status: active. First released: 2.2.0. Last updated: 2.2.0.

See Header for Measure (hMe). An indicator to show in a wide-name that measure information is located in a different column. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Human Metapneumovirus (HMPV) (hmpv). Human Metapneumovirus (HMPV) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Human Parainfluenza Virus (HPIV) (hpiv). Human Parainfluenza Virus (HPIV) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Human Papiloma Virus (HPV) (hpv). Human Papiloma Virus (HPV) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Human Rhinovirus (HRV) (hrv). Human Rhinovirus (HRV) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Human Rhinovirus (HRV) A (hrvA). Human Rhinovirus (HRV) A Status: active. First released: 2.2.0. Last updated: 2.2.0.

Human Rhinovirus (HRV) B (hrvB). Human Rhinovirus (HRV) B Status: active. First released: 2.2.0. Last updated: 2.2.0.

Human Rhinovirus (HRV) C (hrvC). Human Rhinovirus (HRV) C Status: active. First released: 2.2.0. Last updated: 2.2.0.

Herpes Simplex Virus (hsv). Herpes Simplex Virus Status: active. First released: 2.2.0. Last updated: 2.2.0.

i1566v omicron-variant gene target (i1566v). i1566v omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

i3758v omicron-variant gene target (i3758v). i3758v omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

i82t delta-variant gene target (i82t). i82t delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Influenza A M gene (iavM). A measure of the M gene found in Influenza A viruses (IAV). The virus has segmented RNA genome and 7th segment, M gene, encodes 2 proteins. M1 is a matrix protein and M2 is a membrane protein. The M gene may be involved in determining host tropism. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Ibuprofen (ibu). Ibuprofen (usually measured as a human fecal chemical indicator) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Industrial input (indusIn). Percentage of total wastewater input coming from industrial sources. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Influent equilibration (influEqui). Binary indicator for whether a site stores influent wastewater prior to treatment to equilibrate flow rates. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measures

Inhibition measure (inhibMe). Parameter to report whether or not inhibition was detected in the sample. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Omicron Variant ins214epe Insertion (ins214epe). Omicron Variant ins214epe Insertion Status: active. First released: 2.2.0. Last updated: 2.2.0.

Integrase Class I gene target (integraseCl1). Integrase anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Combined ip2 and ip4 sars-cov-2 gene target (ip2ip4). Combined ip2 and ip4 sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

JN.1.7 Variant (jn17V). The JN.1.7 variant of SARS-CoV-2, one of the FLiRT variants. Status: active. First released: 2.0.0. Last updated: 2.0.0.

JN.1 Variant (jn1V). The JN.1 variant is a subvariant of Omicron variant BA.2.86, and contains several mutations that are associated with escape from vaccine-mediated immune protection. The source of the FLiRT variants of SARS-CoV-2. Status: active. First released: 2.0.0. Last updated: 2.0.0.

k856r omicron-variant gene target (k856r). k856r omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Klebsiella pneumoniae (klebsiellaPneu). Klebsiella pneumoniae Status: active. First released: 2.2.0. Last updated: 2.2.0.

KP.1.1 Variant (kp11V). The KP.1.1 variant of SARS-CoV-2, one of the FLiRT variants. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

KP.1 Variant (kp1V). The KP.1 variant of SARS-CoV-2, one of the FLiRT variants. Status: active. First released: 2.0.0. Last updated: 2.0.0.

KP.2 Variant (kp2V). The KP.2 variant of SARS-CoV-2, one of the FLiRT variants. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Omicron Variant l24s mutation (l24s). Omicron Variant l24s mutation Status: active. First released: 2.2.0. Last updated: 2.2.0.

l452r delta-variant gene target (l452r). l452r delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

L455S Mutation (l455s). The FLiRT/SLip variant mutation L455S. Status: active. First released: 2.2.0. Last updated: 2.2.0.

l981f omicron-variant gene target (l981f). l981f omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Lambda (lambda). C.37 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Legionella (legionella). Legionella Status: active. First released: 2.2.0. Last updated: 2.2.0.

Listeria (listeria). Listeria Status: active. First released: 2.2.0. Last updated: 2.2.0.

Limit of detection (LOD) (lod). Limit of detection, ie. the minimum level of a genetic target. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Limit of detection (LOD) - sewage (lodSewa). Limit of detection, ie. the minimum level of a genetic target, for sewage samples. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Limit of quantification (LOQ) (loq). Loq Status: active. First released: 1.1.0. Last updated: 2.0.0.

Measures

Omicron Variant LPPA24S mutation (lppa24s). Omicron Variant LPPA24S mutation Status: active. First released: 2.2.0. Last updated: 2.2.0.

MCR-1.1 Colistin-resistence gene target (mcr11). The MCR-1.1 colistin anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measles (meas). Measles Status: active. First released: 2.2.0. Last updated: 2.2.0.

Other Measure (measOth). Other measure, not otherwise specified in measures. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Other Measure Description (meOthDe). Description of other measure (measOtherDesc). Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Mycoplasma genitalus (mGenitalus). Mycoplasma genitalus Status: active. First released: 2.2.0. Last updated: 2.2.0.

Murine Hepatitis Virus (mhv). A measure for amount of murine hepatitis viurs. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Method Limit of Detection (LOD) (mlod). The minimum level of a target necessary for its consistent detection considering all sample processing steps as in the definition of SLOD), but considering biases attributable to method losses. The MLOD is experimentally determined using a rigorous and iterative testing approach and it is sensitive to the recovery surrogate used and the sample matrix encountered. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Mpox (mpox). The virus known as Mpox, previously also known as Monkey Pox. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Sets

Methicillin-resistant Staphylococcus aureus (MRSA) (mrsa). Methicillin-resistant Staphylococcus aureus (MRSA) Status: active. First released: 2.2.0. Last updated: 2.2.0.

ms2 coliphage (ms2Col). Measure of the amount of ms2 coliphage. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Mycobacterium tuberculosis (mTuberculosis). Mycobacterium tuberculosis Status: active. First released: 2.2.0. Last updated: 2.2.0.

Mu (mu). B.1.621 Status: active. First released: 2.0.0. Last updated: 2.0.0.

murine coronavirus (muCo). Measure of the amount of murine coronavirus. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Mumps (mumps). Mumps Status: active. First released: 2.2.0. Last updated: 2.2.0.

N sars-cov-2 gene target (n). N sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Combined N1 and N2 sars-cov-2 gene target (n1n2). Combined N1 and N2 sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Influenza A N1 neuraminidase gene (n1neur). Measure of the N1 neuraminidase gene from the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Omicron Variant n211i mutation (n211i). Omicron Variant n211i mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Omicron Variant n679k mutation (n679k). Omicron Variant n679k mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measures

Omicron Variant n856k mutation (n856k). Omicron Variant n856k mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Omicron Variant n969k mutation (n969k). Omicron Variant n969k mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Neisseria gonorrhoeae (nGonorrhoeae). Neisseria gonorrhoeae Status: active. First released: 2.2.0. Last updated: 2.2.0.

Ammonium Nitrogen (nH4N). Ammonium nitrogen concentration, as N. Status: active. First released: 1.0.0. Last updated: 2.0.0.

niid_2019-ncov_n sars-cov-2 gene target (niid19). niid_2019-ncov_n sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Norovirus (noro). Norovirus. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Norovirus G1 (noroG1). Norovirus genogroup 1 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Norovirus G2 (noroG2). Norovirus genogroup 2 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sarbecovirus-specific N sars-cov-2 gene target (nSarbec). Sarbecovirus-specific N sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Number of NTCs per Run (numNTC). The number of no-template controls included in each PCR instrument run. Status: active. First released: 2.2.0. Last updated: 2.2.0.

coronavirus OC43 (oc43). Measure of the amount of coronavirus OC43. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Omicron BA.1 (omicr1). Omicron B.1.1.529 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Omicron BA.2 (omicr2). Omicron BA.2 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Omicron BA.2.75 (omicr275). Omicron BA.2.75 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Omicron BA.4 (omicr4). Omicron BA.4 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Omicron BA.5 (omicr5). Omicron BA.5 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Orthophosphates (ophos). Ortho-phosphate concentration. Status: active. First released: 1.0.0. Last updated: 2.0.0.

ORF1a sars-cov-2 gene target (orf1a). ORF1a sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

ORF1ab sars-cov-2 gene target (orf1ab). ORF1ab sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

ORF1b sars-cov-2 gene target (orf1b). ORF1b sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Variants Other (otherV). Used for reporting variants detected for which a specific measureID doesn't already exist. The ODM team will periodically migrate collected responses in this category into set measureIDs. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Outbreak (outb). Measure to indicate outbreak status. Given that when outbreaks occur, full data on case counts may not be available or completely accurate, using this measure indicates that case counts may be approximate. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Delta Variant p100l mutation (p100l). Delta Variant p100l mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measures

Omicron Variant p13l mutation (p13L). Omicron Variant p13l mutation Status: active. First released: 2.2.0. Last updated: 2.2.0.

Delta Variant p2046l mutation (p2046l). Delta Variant p2046l mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Delta Variant p2287s mutation (p2287s). Delta Variant p2287s mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Omicron Variant p3395h mutation (p3395h). Omicron Variant p3395h mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Delta Variant p681r (p681r). Delta Variant p681r mutation & gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Paraxanthine (PARA) (para). A metabolite of the common central nervous system stimulant caffeine, measured levels of paraxanthine have been found to be less affected by the genetic heterogeneity and population structure than caffeine is, and it may serve as a useful population biomarker in wastewater. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Percent recovery (percRec). Percent of the surrogate recovery for a recovery efficiency control assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

pH (ph). pH measurement Status: active. First released: 1.1.0. Last updated: 2.0.0.

Pseudomonas virus phi6 (phi6). Measure of the amount of pseudomonas virus phi6. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Total phosphorous (phos). Total phosphorous Status: active. First released: 1.1.0. Last updated: 2.0.0.

Sets

Total Phosphates (phostot). Total phosphates Status: active. First released: 1.1.0. Last updated: 2.0.0.

PHRED quality score (phred). PHRED Quality Score For Sequencing Status: active. First released: 2.0.0. Last updated: 2.0.0.

Plasmodium (plasmodium). Plasmodium Status: active. First released: 2.2.0. Last updated: 2.2.0.

PMMoV-CP (ppmv). Pepper mild mottle virus capsid protein gene region Status: active. First released: 1.0.0. Last updated: 2.0.0.

Storage temperature prior to concentration (preConcTemp). The temperature at which a sample was stored between collection and concentration. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Storage time prior to concentration (preConcTime). Length of time for which a sample is stored between collection and concentration. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Storage temperature prior to extraction (preExtractTemp). The temperature at which a sample was stored between concentration and extraction. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Storage time prior to extraction (preExtractTime). Length of time for which a sample is stored between concentration and extraction. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Pretreatment (pretreat). Was the sample chemically treated in anyway with the addition of stabilizers or other Status: active. First released: 1.0.0. Last updated: 2.0.0.

Pseudomonas (pseudomonas). Pseudomonas Status: active. First released: 2.2.0. Last updated: 2.2.0.

Puro virus (puro). Measure of the amount of puro virus. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measures

Poliovirus type 2 (pv2). Poliovirus type 2 Status: active. First released: 2.2.0. Last updated: 2.2.0.

q19e omicron-variant gene target (q19e). q19e omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

q493r omicron-variant gene target (q493r). q493r omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

q498r omicron-variant gene target (q498r). q498r omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

q954h omicron-variant gene target (q954h). q954h omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

r203m delta-variant gene target (r203m). r203m delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

R346T Mutation (r346t). The FLiRT/SLip variant mutation R346T. Status: active. First released: 2.2.0. Last updated: 2.2.0.

IP2 rdrp sars-cov-2 gene target (rdrpIP2). IP2 rdrp sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

IP4 rdrp sars-cov-2 gene target (rdrpIP4). IP4 rdrp sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Relative humidity (relHum). The unit of relative humidity, or the air-water mixture. The ratio of the partial pressure of water vapor in the mixture to the equilibrium vapor pressure of water over a flat surface. of pure water at a given temperature. Status: active. First released: 2.0.0. Last updated: 2.0.0.

replicate number (repNum). The replicate number for a Ct or Cq value - used for specifying out a protocol standard curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Rickettsia (rickettsia). Rickettsia Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Ribonuclease P (RNase P) (rnaseP). Ribonuclease P (RNase P) (usually measured as a human fecal indicator) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Rotavirus (rotavirus). Rotavirus Status: active. First released: 2.2.0. Last updated: 2.2.0.

Respiratory syncytial virus A and B combined (rsvAB). Human Respiratory Syncytial Virus Type A (RSV A) and Type B (RSV B). Status: active. First released: 2.1.0. Last updated: 2.1.3.

Respiratory syncytial virus A (rsvAMe). Human Respiratory Syncytial Virus Type A (RSV A). Status: active. First released: 2.1.0. Last updated: 2.1.3.

Respiratory syncytial virus B (rsvB). Human Respiratory Syncytial Virus Type B (RSV B). Status: active. First released: 2.1.0. Last updated: 2.1.3.

Respiratory syncytial virus (rsvMe). Human Respiratory Syncytial virus (RSV), generic measure. Status: active. First released: 2.0.0. Last updated: 2.1.2.

RSV N-gene (rsvN). Human Respiratory syncytial Virus, N-gene region. Status: active. First released: 2.1.3. Last updated: 2.1.3.

Rubella (rubella). Rubella Status: active. First released: 2.2.0. Last updated: 2.2.0.

s2083i omicron-variant gene target (s2083i). s2083i omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

s371l omicron-variant gene target (s371l). s371l omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

s373p omicron-variant gene target (s373p). s373p omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measures

s375f omicron-variant gene target (s375f). s375f omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

s477n omicron-variant gene target (s477n). s477n omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Salmonella (salmonella). Salmonella Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sapovirus (sapovirus). Sapovirus Status: active. First released: 2.2.0. Last updated: 2.2.0.

Settled solids (settsol). Amount of settled solids from a wastewater sample. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sewage equivalent (sewEq). Equivalent unconcentrated volume of wastewater or mass of sludge in PCR reaction Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sewage travel time (sewTrTi). A measure of sewage travel time, often approximate, from sewage source to the sampling site. Status: active. First released: 2.2.0. Last updated: 2.2.0.

S sars-cov-2 gene target (sGene). S sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Shaker agitation speed (shaker). The speed/agitation level for a shaker plate/shaker platform. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Shigella (shigella). Shigella Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sample Limit of Detection (LOD) (slod). The minimum level of a target within a sample that would be consistently detectable considering all sample processing steps, from sample concentration leading up to and including amplification and quantification steps of RT-qPCR. In this Protocol, the SLOD is the concentration factor-adjusted ALOD, which

Sets

provides a theoretical estimate of the minimum concentration in the original sample that would yield consistent detection of the target, assuming no method losses. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Specific humidity (specHum). Measure for specific humidity, the unit is the ratio of the mass of water vapour and the mass of total air. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Spike Concentration (spikeConc). Concentration of the recovery efficiency target in a spike matrix and recovery assay. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Shiga-toxin-producing Escherichia coli (STEC) (stec). Shiga-toxin-producing Escherichia coli (STEC). Status: active. First released: 2.1.0. Last updated: 2.1.0.

Storage temp (sTemp). Temperature that the sample is stored at in Celsius. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Storage time (stoTim). Length of time that a sample was in storage. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Streptococcus pneumoniae (strepPneu). Streptococcus pneumoniae Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sub-variant or lineage (subVar). A unit used to report a specific genetic lineage, or to specify that a reported variant is a sub-variant of another. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sucralose (suc). Sucralose (usually measured as a human fecal chemical indicator) Status: active. First released: 2.2.0. Last updated: 2.2.0.

t19r delta-variant gene target (t19r). t19r delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

t3646a delta-variant gene target (t3646a). t3646a delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measures

t547k omicron-variant gene target (t547k). t547k omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

t9i omicron-variant gene target (t9i). t9i omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

TaqPath N sars-cov-2 gene target (taqpatN). TaqPath N sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

TaqPath S sars-cov-2 gene target (taqpatS). TaqPath N sars-cov-2 gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample temperature (temp). Temperature of the sample measured in degrees Celcius Status: active. First released: 1.0.0. Last updated: 2.0.0.

Nucleic acid template volume (tempVol). The volume of DNA or RNA template used for PCR. Status: active. First released: 2.0.0. Last updated: 2.0.0.

TetW Tetracycline-resistance gene target (tetW). The tetW tetracycline anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Total Kjeldahl Nitrogen (tkn). A measure of Total Kjeldahl Nitrogen; ie. the sum of nitrogen bound in organic substances, nitrogen in ammonia (NH₃-N) and in ammonium (NH₄⁺-N) in the chemical analysis of soil, water, or waste water. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Total Nitrogen (tn). Total nitrogen concentration, as N. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Treponema pallidum (tPallidum). Treponema pallidum Status: active. First released: 2.2.0. Last updated: 2.2.0.

Total solids concentration (ts). Total solids concentration Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Total suspended solids (tss). Total suspended solids Status: active. First released: 1.0.0. Last updated: 2.0.0.

Concentration of total suspended solids (tssConc). Total suspended solids concentration of the wastewater. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Turbidity (turb). A measure for the turbidity of water, or a liquid sample, quantifying the relative clarity or opacity of a liquid. Highly indicative of water quality. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Trichomonas vaginalis (tVaginalis). Trichomonas vaginalis Status: active. First released: 2.2.0. Last updated: 2.2.0.

Tube weight empty (tWeighE). The weight of the tube used for analysis while empty. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Tube weight full (tWeighF). The weight of the tube used for analysis while full of analyte. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Ureaplasma (ureaplasma). Ureaplasma Status: active. First released: 2.2.0. Last updated: 2.2.0.

V1104L Mutation (v1104l). The FLiRT/SLip variant mutation V1104L Status: active. First released: 2.2.0. Last updated: 2.2.0.

v2930l delta-variant gene target (v2930l). v2930l delta-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

VanA-A Vancomycin-resistance gene target (vanAA). The VanA-A vancomycin anti-microbial resistance gene target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Vancomycin resistance (vanc). Vancomycin resistant bacteria. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Varicella (varicella). Varicella Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measures

Vibrio (vibrio). Vibrio Status: active. First released: 2.2.0. Last updated: 2.2.0.

Size in volume (vol). Total volume of water or sludge sampled. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Volatile suspended solids (vss). Volatile suspended solids Status: active. First released: 2.0.0. Last updated: 2.0.0.

Volatile suspended solids - ignition (vssIg). A water quality measure, captured by via the loss on ignition of the mass of measured total suspended solids. This ignition generally takes place in an oven at a temperature of 550 °C to 600 °C. It represents the amount of volatile matter present in the solid fraction of the measured solution. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Verotoxin-producing Escherichia coli (VTEC) (vtec). Verotoxin-producing Escherichia coli (VTEC) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Wastewater temperature (watTemp). Temperature of the wastewater. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Weather (weath). A measure for weather captured through qualitative categories; part of a larger suite of weather measures that may be useful when collecting samples from outdoor sources. Status: active. First released: 2.0.0. Last updated: 2.0.0.

West Nile (westNile). West Nile Status: active. First released: 2.2.0. Last updated: 2.2.0.

Wind Speed (wind). A measure for wind speed; part of a larger suite of weather measures that may be useful when collecting samples from outdoor sources. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Delta Variant wt214 gene target (wt214). Delta Variant wt214 gene target Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Wastewater treatment plant designed capacity (wwtpCap). A measure for the designed capacity of a wastewater treatment plant, in terms of how much water it was designed to be able to hold and process. Status: active. First released: 1.0.0. Last updated: 2.0.0.

y505h omicron-variant gene target (y505h). y505h omicron-variant gene target Status: active. First released: 2.0.0. Last updated: 2.0.0.

Yersinia enterocolitica (yEnterocolitica). Yersinia enterocolitica Status: active. First released: 2.2.0. Last updated: 2.2.0.

Zika (zika). Zika Status: active. First released: 2.2.0. Last updated: 2.2.0.

SARS-CoV-2 S Gene Target (covS). S sars-cov-2 gene target Status: active. First released: 2.2.3. Last updated: 2.2.3.

Dengue Virus NS5 Gene (dnvNS5). Dengue Type 1-specific gene target. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Dengue Virus E Gene (dnvE). Dengue Type 2-specific gene taget. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Dengue Virus prM Gene (dnvprM). Dengue Type 3 and 4-specific gene target. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Mpox Clade I F3L Gene Target (mpxF3L). Human MPox Virus (hMPXV) Clade I gene target, F3L Status: active. First released: 2.2.3. Last updated: 2.2.3.

Mpox G2R-NML Gene Target (mpxG2RNML). Human MPox Virus (hMPXV) gene target using the G2R_NML primers and probe which detects all MPox Virus strains. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Influenza A H5 hemagglutinin gene (fluH5hema). Measure of the H5 hemagglutinin gene from the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Measures

Influenza A M gene (fluIAVm). A measure of the M gene found in Influenza A viruses (IAV). The virus has segmented RNA genome and 7th segment, M gene, encodes 2 proteins. M1 is a matrix protein and M2 is a membrane protein. The M gene may be involved in determining host tropism. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Influenza A N1 neuraminidase gene (fluN1neur). Measure of the N1 neuraminidase gene from the Highly Pathogenic Avian Influenza Virus (HPAIV), the H5N1 Influenza A Virus (IAV) subtype. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Mpox Clade I (mpxCII). The virus known as Mpox, previously also known as Monkey Pox, Clade I virus type. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Mpox Clade II (mpxCIII). The virus known as Mpox, previously also known as Monkey Pox, Clade II virus type. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Dengue Virus Type 1 (den1). Dengue virus, Type 1, general measurement Status: active. First released: 2.2.3. Last updated: 2.2.3.

Dengue Virus Type 2 (den2). Dengue virus, Type 2, general measurement Status: active. First released: 2.2.3. Last updated: 2.2.3.

Dengue Virus Type 3 (den3). Dengue virus, Type 3, general measurement Status: active. First released: 2.2.3. Last updated: 2.2.3.

Dengue Virus Type 4 (den4). Dengue virus, Type 4, general measurement Status: active. First released: 2.2.3. Last updated: 2.2.3.

Male-specific (F+) coliphage - general (fColiphage). Male-specific (F+) coliphage - general Status: active. First released: 2.2.3. Last updated: 2.2.3.

Sets

Methods

(methods). Procedures or steps for collecting samples or performing measures. For example, `methodExtract` is a method that describes the how a sample was extracted.

Extraction Blank - Control (`extBlank`). Binary Y/N indicator for if extraction blank was used as a control for the nucleic acid extraction process. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Nucleic acid extraction method (`extraction`). Description of the nucleic acid extraction method. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Inhibition method (`inhibMeth`). Description of the method used to evaluate molecular inhibition. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Concentration method (`methodConc`). Description of the method to concentrate a wastewater sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Pasteurized sample (`pasteur`). Binary indicator for whether a sample was pasteurized as part of its processing. Status: active. First released: 2.2.0. Last updated: 2.2.0.

PCR Action/Activity (`pcrAct`). Describes a given PCR cycle for delineating more method information. Status: active. First released: 2.2.0. Last updated: 2.2.0.

PCR method (`pcrmeth`). Description of the PCR method. Status: active. First released: 1.0.0. Last updated: 2.0.0.

PCR sequencingsSelection method (`pcrSeq`). Specifies the PCR selection method for sequencing, ie. that a pre-determined primer was used. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Methods

Genetic primer (primer). Method ID used for indicating the primer used for a PCR or sequencing assay. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality assurance method (qaqc). Quality assurance and quality control method. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Resuspension method (resuspension). Describes the method used for resuspending material. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Retained Element (retainedElement). The element retained after centrifugation, filtration, solid separation, etc. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Collection other depreciated (sampleTypeOther). Description for other type of method not listed in collection. depreciated. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Standard curve frequency (scf). A method for specifying the frequency over which a standard curve (or ‘Master Curve’) is used. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Genetic sequencing script version (scriptVersion). Used to specify the script or script version used to extract summary information (i.e. coverage and mutation frequency statistics, etc.) from the sequencing output. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sequencing Layout (seqLay). The layout of genetic material used in sequencing. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sequencing selection method (seqSel). The primer sequence selection method used in sequencing. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sequencing Strategy (seqStrat). The sequencing strategy used for an analysis. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Shipped on ice (shipOnIce). Was the sample kept cool while being shipped to the lab Status: active. First released: 1.0.0. Last updated: 2.0.0.

Solid separation (solidSep). Process used to separate solid and liquid phases of the sample. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Spike material (spikeMat). Material into which the recovery efficiency control target is spiked. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Recovery efficiency spike target (spikeTarget). Method specifying the recovery efficiency control target. This matches on to the spike material method ID. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Standard Curve Calculation Method (stdCurveMet). Describes the specific approach used for calculating a standard curve. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Nucleic Acid Template Type (tempType). Specifies whether a PCR or sequencing used RNA or DNA as the template for the reaction. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Type other depreciate (tyOtDep). Description for other type of sample not listed in Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Missingness

(missingness). The part type for missingness values. Only used for the dictionary entries of parts.

Missingness sets

Not applicable (NA). The field for which the expected value is not a property of the described object. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Not a number (nan). The outcome of a measurement is not a valid number (plus or minus infinity, error, ...) Status: active. First released: 1.0.0. Last updated: 2.0.0.

Not reported (nr). A value could have been recorded, however, it was not. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Null (null). A logical representation of a statement that is neither TRUE nor FALSE. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Undisclosed (undisc). A value has been recorded, however it was not included in the dataset. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Missingness sets

(missingnessSets). Set of missingness values. Examples of missingness sets may include NR or NA esclusive sets, or general all-purpose sets.

General missingness set

(genMissingnessSet)The general set for missingness values. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Not applicable (NA). The field for which the expected value is not a property of the described object. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Not a number (nan). The outcome of a measurement is not a valid number (plus or minus infinity, error, ...) Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Not reported (nr). A value could have been recorded, however, it was not. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Null (null). A logical representation of a statement that is neither TRUE nor FALSE. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Undisclosed (undisc). A value has been recorded, however it was not included in the dataset. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Not reported, Not applicable missing set

(nrNAMissingnessSet)Not reported, Not applicable missing set. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Not applicable (NA). The field for which the expected value is not a property of the described object. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Not reported (nr). A value could have been recorded, however, it was not. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

(mmaSets). A set of categories. For example, site type has a list of different sites, such as a wastewater treatment plant, a septic tank, or a pumping station. Only used for the dictionary entries of parts.

Boolean value set

(booleanSet)Set that contains the valid possible values for a boolean measure (TRUE or FALSE). Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

FALSE (FALSE). Boolean data type = FALSE Status: active. First released: 1.0.0. Last updated: 2.0.0.

TRUE (TRUE). Boolean data type = TRUE Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample collection set

(collectSet)Methods for collection samples. Sample collection methods include water, air, and surface. See the attribute **Compartment set** of the sample collection method. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Area proportional sample (areaPr). An area proportional sample. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Composite sample - archival (comp). A composite sample, usually generated by an autosampler. Status: active. First released: 1.0.0. Last updated: 2.0.0.

COSCa ball (cosca). COSCa passive sampling device. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Flow proportional sample (flowPr). A flow proportional composite sample generally collected by an autosampler. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Grab sample (grb). A single large representative grab sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Manual Composite Sample (manComp). Specifies a composite sample where the sub-samples were collected manually. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Moore swab passive sample (moorSw). Moore swab passive sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Passive Sample - General (passiveGen). Used to specify a passive sampling method not otherwise specified was used to collect the sample. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Surface swab (surfSw). Surface swab. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Time proportional sample (timePr). A time proportional composite sample generally collected by an autosampler. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Volume proportional sample (volPr). A volume proportional sample generally collected by an autosampler. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Nucleic Acid Extraction set

(extractSet)set used for storing all the valid category values for the nucleic acid extraction method. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Amicon filter, extract with MP96 (amiMP96). Nucleic acid extraction, usually used for the liquid fraction of a wastewater sample, using amicon filtration and using an MP96 for final extraction. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Bead beating, extract with MP96 (bbMP96). Nucleic acid extraction, usually used for solid fraction of a wastewater sample, using bead beating and using an MP96 for final extraction. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Chemagic viral dna/rna 300 kit (chemVir). Nucleic acid extraction performed using the chemagic viral dna/rna 300 kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

4s method (extract4s). Nucleic acid extraction performed using the 4s method. Status: active. First released: 2.0.0. Last updated: 2.0.0.

luminultra wastewater extraction kit (luminWWExtract). luminultra wastewater extraction kit Status: active. First released: 2.2.0. Last updated: 2.2.0.

monarch total RNA miniprep kit (new england biolabs) + onestep PCR inhibitor removal kit (zymo) (monarchRNA). monarch total RNA miniprep kit (new england biolabs) + onestep PCR inhibitor removal kit (zymo) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Nuclisens automated magnetic bead extraction kit (nucAuto). Nucleic acid extraction performed using the nuclisens automated magnetic bead extraction kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

nucleomag (ref. 744220.4) using kingfisher automated instrument (nucKingfish). nucleomag (ref. 744220.4) using kingfisher automated instrument Status: active. First released: 2.2.0. Last updated: 2.2.0.

Nuclisens manual magnetic bead extraction kit (nucManu). Nucleic acid extraction performed using the nuclisens manual magnetic bead extraction kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Phenol chloroform (phenCl). Nucleic acid extraction performed using phenol chloroform. Status: active. First released: 2.0.0. Last updated: 2.0.0.

promega automated tna kit (promAuto). Nucleic acid extraction performed using the promega automated tna kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

promega ht tna kit (promHt). Nucleic acid extraction performed using the promega ht tna kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

promega manual tna kit (promManu). Nucleic acid extraction performed using the promega manual tna kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

promega wastewater large volume tna capture kit (promWW). Nucleic acid extraction performed using the promega wastewater large volume tna capture kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qiagen allprep dna/rna kit (qgDNARNA). Nucleic acid extraction performed using the qiagen allprep dna/rna kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qiagen ez1 virus mini kit v2.0 (qgEz1). Nucleic acid extraction performed using the qiagen ez1 virus mini kit v2.0. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qiagen allprep powerfecal dna/rna kit (qgPwrFecal). Nucleic acid extraction performed using the qiagen allprep powerfecal dna/rna kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qiagen allprep powerviral dna/rna kit (qgPwrViral). Nucleic acid extraction performed using the qiagen allprep powerviral dna/rna kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qiagen powerwater kit (qgPwrWtr). Nucleic acid extraction performed using the qiagen powerwater kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qiagen qiaamp buffers with epoch columns (qgQiAmp). Nucleic acid extraction performed using the qiagen qiaamp buffers with epoch columns. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qiagen rneasy kit (qgRneasy). Nucleic acid extraction performed using the qiagen rneasy kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

qiagen rneasy powermicrobiome kit (qgRneasyPwr). Nucleic acid extraction performed using the qiagen rneasy powermicrobiome kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

qiagen allprep dna/rna kit (qiAllprep). qiagen allprep dna/rna kit Status: active. First released: 2.2.0. Last updated: 2.2.0.

qiagen qiaamp dsp viral rna mini kit (qiampDSP). qiagen qiaamp dsp viral rna mini kit Status: active. First released: 2.2.0. Last updated: 2.2.0.

Resuspend COSCa filter collection (resCosca). Nucleic acid extraction via resuspension of a sample collected using the COSCa ball method. Status: active. First released: 2.0.0. Last updated: 2.0.0.

sciencell viral rna isolation kit (sciencellRNA). sciencell viral rna isolation kit Status: active. First released: 2.2.0. Last updated: 2.2.0.

thermo magmax microbiome ultra nucleic acid isolation kit (thermMag). Nucleic acid extraction performed using the thermo magmax microbiome ultra nucleic acid isolation kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

thermo magmax viral/pathogen nucleic acid isolation kit (thermMagmax). thermo magmax viral/pathogen nucleic acid isolation kit Status: active. First released: 2.2.0. Last updated: 2.2.0.

trizol, zymo mag beads w/ zymo clean and concentrator (trizol). Nucleic acid extraction performed using the trizol, zymo mag beads w/ zymo clean and concentrator method. Status: active. First released: 2.0.0. Last updated: 2.0.0.

trizol, garnet bead beating, alcohol precipitation (trizolEtOH). trizol, garnet bead beating, alcohol precipitation Status: active. First released: 2.2.0. Last updated: 2.2.0.

trizol and RNA purification kit (trizolRNA). trizol and RNA purification kit Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

zymo quick-rna viral kit #r1035 (zymo1035). zymo quick-rna viral kit #r1035 Status: active. First released: 2.2.0. Last updated: 2.2.0.

zymo quick-rna viral 96 kit #r1041 (zymo1041). zymo quick-rna viral 96 kit #r1041 Status: active. First released: 2.2.0. Last updated: 2.2.0.

zymo environ water rna kit/ zymo environ water rna kit (cat. r2042) (zymoEnv). Nucleic acid extraction performed using the zymo environ water rna kit/ zymo environ water rna kit (cat. r2042). Status: active. First released: 2.0.0. Last updated: 2.0.0.

zymo quick-rna fungal/bacterial miniprep #r2014 (zymoQuick). Nucleic acid extraction performed using the zymo quick-rna fungal/bacterial miniprep #r2014 kit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample fraction set

(fractionSet)set for the fraction of the sample (solid, liquid, etc.). Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Liquid fraction (liq). Liquid fraction of a sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Mixed/homogenized sample (mix). Mixed or homogenized sample or fraction analyzed. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Not applicable (NA). The field for which the expected value is not a property of the described object. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Solid fraction (sol). Solid fraction of a sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

Geographic set

(geoTypeSet)set for different type of geographic components. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Sewer Network Health Region (hlthReg). Health region served by the sewer network Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sewer catchment area (swrSet). Sewer catchment area. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Inhibition set

(inhibitionSet)Category set for inhibition methods. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Serial dilution (serialDilution). The serial dilution method for assessing inhibition. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Spike matrix and recovery (spike). The spike matrix and recovery method for assessing inhibition. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Instrument set

(insTypeSet)List of instruments that are used for measures and methods Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Atline Analyzer (aas). Atline analyzer with sampler. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Hand Measurement (hma). Handheld measurement analyzer. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Other instrument (instrumentTypeOther). Type of instrument other than those included in the PHES-ODM. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Lab Analysis (ola). Offline laboratory analysis. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Online Sensor (onse). Online sensor Status: active. First released: 1.0.0. Last updated: 2.0.0.

Data license set

(licSet)The set to describe valid categorical values for the licensing fields for measures or datasets. Status: active. First Released: 2.2.0. Last updated: 2.2.0.

Academic Free License v3.0 (afl30). The licensing for the measure or data set is managed under the Academic Free License v3.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

GNU Affero General Public License v3.0 (agpl30). The licensing for the measure or data set is managed under the GNU Affero General Public License v3.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Apache license 2.0 (apache20). The licensing for the measure or data set is managed under the Apache license 2.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Artistic license 2.0 (artistic20). The licensing for the measure or data set is managed under the Artistic license 2.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

BSD Zero-Clause license (bsd0). The licensing for the measure or data set is managed under the BSD Zero-Clause license. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure, method, or attribute sets

BSD 2-clause “Simplified” license (bsd2Clause). The licensing for the measure or data set is managed under the BSD 2-clause “Simplified” license. Status: active. First released: 2.2.0. Last updated: 2.2.0.

BSD 3-clause “New” or “Revised” license (bsd3Clause). The licensing for the measure or data set is managed under the BSD 3-clause “New” or “Revised” license. Status: active. First released: 2.2.0. Last updated: 2.2.0.

BSD 3-clause Clear license (bsd3ClauseClear). The licensing for the measure or data set is managed under the BSD 3-clause Clear license. Status: active. First released: 2.2.0. Last updated: 2.2.0.

BSD 4-clause “Original” or “Old” license (bsd4Clause). The licensing for the measure or data set is managed under the BSD 4-clause “Original” or “Old” license. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Boost Software License 1.0 (bsl10). The licensing for the measure or data set is managed under the Boost Software License 1.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Creative Commons Zero v1.0 Universal (cc010). The licensing for the measure or data set is managed under the Creative Commons Zero v1.0 Universal. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Creative Commons Attribution 4.0 (ccby40). The licensing for the measure or data set is managed under the Creative Commons Attribution 4.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

CC BY-NC 4.0 license (ccbnc40). The licensing for the measure or data set is managed under the Creative Commons 4.0 by-attribution, non-commercial international license. Status: active. First released: 2.2.3. Last updated: 2.2.3.

CC BY-NC-SA 4.0 license (ccbncsa40). The licensing for the measure or data set is managed under the Creative Commons 4.0 by-attribution,

Sets

non-commercial, and sharealike international license. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Creative Commons Attribution ShareAlike 4.0 (ccbysa40). The licensing for the measure or data set is managed under the Creative Commons Attribution ShareAlike 4.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

CeCILL Free Software License Agreement v2.1 (cecill21). The licensing for the measure or data set is managed under the CeCILL Free Software License Agreement v2.1. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Educational Community License v2.0 (ecl20). The licensing for the measure or data set is managed under the Educational Community License v2.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Eclipse Public License 1.0 (epl10). The licensing for the measure or data set is managed under the Eclipse Public License 1.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Eclipse Public License 2.0 (epl20). The licensing for the measure or data set is managed under the Eclipse Public License 2.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

European Union Public License 1.1 (eupl11). The licensing for the measure or data set is managed under the European Union Public License 1.1. Status: active. First released: 2.2.0. Last updated: 2.2.0.

European Union Public License 1.2 (eupl12). The licensing for the measure or data set is managed under the European Union Public License 1.2. Status: active. First released: 2.2.0. Last updated: 2.2.0.

GNU Free Documentation License v1.3 (gfdl13). The licensing for the measure or data set is managed under the GNU Free Documentation License v1.3. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure, method, or attribute sets

GNU General Public License v2.0 (gpl20). The licensing for the measure or data set is managed under the GNU General Public License v2.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

GNU General Public License v3.0 (gpl30). The licensing for the measure or data set is managed under the GNU General Public License v3.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

ISC (isc). The licensing for the measure or data set is managed under the ISC license. Status: active. First released: 2.2.0. Last updated: 2.2.0.

GNU Lesser General Public License v2.1 (lgpl21). The licensing for the measure or data set is managed under the GNU Lesser General Public License v2.1. Status: active. First released: 2.2.0. Last updated: 2.2.0.

GNU Lesser General Public License v3.0 (lgpl30). The licensing for the measure or data set is managed under the GNU Lesser General Public License v3.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

LaTeX Project Public License v1.3c (lppl13c). The licensing for the measure or data set is managed under the LaTeX Project Public License v1.3c. Status: active. First released: 2.2.0. Last updated: 2.2.0.

MIT (mit). The licensing for the measure or data set is managed under the MIT license. Status: active. First released: 2.2.0. Last updated: 2.2.0.

MIT No Attribution (mit0). The licensing for the measure or data set is managed under the MIT no attribution license. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Mozilla Public License 2.0 (mpl20). The licensing for the measure or data set is managed under the Mozilla Public License 2.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Microsoft Public License (mspl). The licensing for the measure or data set is managed under the Microsoft Public License. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Mulan Permissive Software License, Version 2 (mulanPSL20). The licensing for the measure or data set is managed under version 2 of the Mulan Permissive Software License. Status: active. First released: 2.2.0. Last updated: 2.2.0.

University of Illinois/NCSA Open Source License (ncsa). The licensing for the measure or data set is managed under the University of Illinois/NCSA Open Source License. Status: active. First released: 2.2.0. Last updated: 2.2.0.

SIL Open Font License 1.1 (ofl11). The licensing for the measure or data set is managed under the SIL Open Font License 1.1. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Open license not otherwise described (open). The licensing for the measure or data set is managed under an open license not otherwise described. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Open Software License 3.0 (osl30). The licensing for the measure or data set is managed under the Open Software License 3.0. Status: active. First released: 2.2.0. Last updated: 2.2.0.

PostgreSQL License (postgreSQL). The licensing for the measure or data set is managed under the PostgreSQL License. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Private data - not for dissemination (private). The measure or data set is private data - not for dissemination. Status: active. First released: 2.2.0. Last updated: 2.2.0.

The Unlicense (unlicense). The licensing for the measure or data set is managed under The Unlicense. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Do What The F*ck You Want To Public License (wtfpl). The licensing for the measure or data set is managed under the Do What The F*ck You Want To Public License. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure, method, or attribute sets

zLib License (zlib). The licensing for the measure or data set is managed under the zLib License. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Concentration method set

(methodConcSet)A set a concentration methods. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Aloh3 precipitation (aloh3). Aloh3 precipitation Status: active. First released: 2.0.0. Last updated: 2.0.0.

Amicon ultrafiltration (amiconUf). Amicon ultrafiltration Status: active. First released: 2.0.0. Last updated: 2.0.0.

Beef extract flocculation (beeExtractFloc). Beef extract flocculation. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Centricon ultrafiltration (centriconUf). Centricon ultrafiltration. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Ceres nanotrap (ceres). Ceres nanotrap. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Hollow fiber dead end ultrafiltration (hollowFiberUF). Hollow fiber dead end ultrafiltration Status: active. First released: 2.0.0. Last updated: 2.0.0.

Innovaprep ultrafiltration (innovaprepUF). Innovaprep ultrafiltration Status: active. First released: 2.0.0. Last updated: 2.0.0.

membrane filtration with addition of mgcl3 (memMgCl3). membrane filtration with addition of mgcl3 Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Membrane filtration with acidification and mgcl2 (mfAcidmgcl2).
Membrane filtration with acidification and mgcl2 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Membrane filtration with acidification and mgcl2, membrane recombined with separated solids (mfAcidmgcl2SS). Membrane filtration with acidification and mgcl2, membrane recombined with separated solids Status: active. First released: 2.0.0. Last updated: 2.0.0.

Membrane filtration with addition of mgcl2 (mfMgcl2). Membrane filtration with addition of mgcl2 Status: active. First released: 2.0.0. Last updated: 2.0.0.

Membrane filtration with mgcl2 and separated solids (mfMgcl2SS). Membrane filtration with addition of mgcl2, membrane recombined with separated solids Status: active. First released: 2.0.0. Last updated: 2.0.0.

Membrane filtration with no amendment (mfNoAmend). Membrane filtration with no amendment Status: active. First released: 2.0.0. Last updated: 2.0.0.

Membrane filtration with no amendment, membrane recombined with separated solids (mfNoAmendSS). Membrane filtration with no amendment, membrane recombined with separated solids Status: active. First released: 2.0.0. Last updated: 2.0.0.

Membrane filtration with sample acidification (mfSampleAcid). Membrane filtration with sample acidification Status: active. First released: 2.0.0. Last updated: 2.0.0.

Membrane filtration with sample acidification, membrane recombined with separated solids (mfSampleAcidSS). Membrane filtration with sample acidification, membrane recombined with separated solids Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

No liquid concentration, liquid recombined with separated solids (noliquid). No liquid concentration, liquid recombined with separated solids Status: active. First released: 2.0.0. Last updated: 2.0.0.

No Separation or Concentration (noSep). Denoted that a sample did not undergo a solids separation protocol, or did not undergo a sample concentration protocol. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Polyethyleneglycol (PEG) precipitation (peg). Peg precipitation Status: active. First released: 2.0.0. Last updated: 2.0.0.

promega wastewater large volume tna capture kit (promegaLVTNA). promega wastewater large volume tna capture kit Status: active. First released: 2.2.0. Last updated: 2.2.0.

Skimmed milk flocculation (skimMilkFloc). Skimmed milk flocculation Status: active. First released: 2.0.0. Last updated: 2.0.0.

Ultracentrifugation (untracent). Ultracentrifugation Status: active. First released: 2.0.0. Last updated: 2.0.0.

water concentrating buffer (R2042-1) (watConcBuff). water concentrating buffer (R2042-1) Status: active. First released: 2.2.0. Last updated: 2.2.0.

zymo environ water rna kit/ zymo environ water rna kit (cat. r2042) (zymoWatRNA). zymo environ water rna kit (cat. r2042) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Organization level set

(orgLevelSet)Categories of organization levels. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Administrative regions (admRegLevel). Administrative regions Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Sets

Countries or sovereign states (countryLevel). Countries or sovereign states Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Districts, counties, regions (countyLevel). Districts, counties, regions Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Municipalities or communes (municipalLevel). Municipalities or communes Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Local administrative units or neighborhoods (neighborLevel). Local administrative units or neighborhoods Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Departments, states, or provinces (stateProvLevel). Departments, states, or provinces Status: depreciated. First released: 2.0.0. Last updated: 2.1.0.

Organization sector set

(orgSectorSet) Categories of organization sectors. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Data collection sector or organization (dataColl). Describes organization who collect, compile, analyze, and/or manage data as their central focus. Status: active. First released: 2.2.0. Last updated: 2.2.0.

First Nation (fiNa). Used to categorize a sample that is a First Nation, or on reserve lands. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Health administration or planning agency (healthAdm). Health administrative or planning organization. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Policy and political sector or organization (policy). Describes organizations whose core focus is on policy or political activity. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure, method, or attribute sets

Public health agency (pubHealth). Public health agency. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Research sector or organization (research). Describes organizations whose focus is on research generation. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Utilities sector or organization (utilities). Describes organization that manage or provide utilities services, whether water, gas, heat, etc. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Organization type set

(orgTypeSet)The set for storing organization types. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Academic institution (academ). The category of organization type used for academic institutions or research groups. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Government agency (govt). The category of organization type used for government agencies, programs, or crown-owned bodies. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Private sector (priv). The category of organization type used for private sector or non-profit groups that are not otherwise captured by the academic category. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample Origin set

(originSet)The set for storing the valid categorical values of sample origin. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Sets

Derived sample (derived). A sample that is derived or made from another sample or material. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Field sample (field). Specifies a sample taken from the field; directly collected from an area for testing. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Synthetic sample (synthetic). A synthetic or artificially generated sample. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Outbreak set

(outbreakSet)set for the valid values of the outbreak measure. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Outbreak End (outbEnd). Indicates an outbreak has ended. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Outbreak - on-going (outbOngoing). Indicates an outbreak is on-going. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Outbreak start (outbStart). Indicates an outbreak began. Status: active. First released: 2.0.0. Last updated: 2.0.0.

PCR action/activity set

(pcrActSet)The set capturing containing all of the valid methods for the PCR activity cycles. Status: active. First Released: 2.2.0. Last updated: 2.2.0.

annealing/extension (anneal). Describes the annealing and/or extension cycle in a PCR process. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure, method, or attribute sets

denaturation (denat). Describes the denaturation cycle in a PCR process. Status: active. First released: 2.2.0. Last updated: 2.2.0.

polymerase activation (pAct). Describes the polymerase activation cycle in a PCR process. Status: active. First released: 2.2.0. Last updated: 2.2.0.

reverse transcription (rt). Describes the reverse transcription cycle in a PCR process. Status: active. First released: 2.2.0. Last updated: 2.2.0.

PCR Method set

(pcrSet)The set capturing containing all of the valid methods for the PCR methodID. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Digital droplet emulsification PCR (bioRadDdpcr). Describes a PCR analysis done using BioRad's digital droplet emulsification PCR technology. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Digital Droplet PCR (ddPCR) (ddpcr). Describes a PCR analysis done using digital droplet PCR technology (general). Status: active. First released: 2.2.0. Last updated: 2.2.0.

Digital PCR (dPCR) (dpcr). Describes a PCR analysis done using digital PCR technology (general). Status: active. First released: 2.2.0. Last updated: 2.2.0.

Fluidigm digital PCR (fluiDpcr). Describes a PCR analysis done using FluidIGM's digital PCR technology. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Life technologies digital PCR (ltDpcr). Describes a PCR analysis done using Life Technologies' digital PCR technology. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

qiagen digital PCR (qgDpcr). Describes a PCR analysis done using Qiagen's digital PCR technology. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quantitative PCR (qpcr). Real-time PCR, also called 'quantAggScale' PCR Status: active. First released: 2.0.0. Last updated: 2.0.0.

Raindance digital PCR (rainDpcr). Describes a PCR analysis done using Raindance's digital PCR technology. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Singleplex, probe-based, one-step RT-qPCR (sinProbeOne). Describes a PCR method that is singleplex, probe-based, and one-step RT-qPCR. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Genetic primer set

(primerSet)The set for genetic primers used in sequencing or PCR assays. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Use of the articV3 primer (articV3). Initial implementation of an ARTIC bioinformatics platform for nanopore sequencing of nCoV2019 novel coronavirus; Artic Foundation v3 primer. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Use of the articV4 primer (articV4). Artic V4 sequencing primer for VOCs and VOIs. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Bacteroides 16S forward primer (HF183) (ABI) (bact16sABIFor). Bacteroides 16S forward primer (HF183) (ABI) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Bacteroides 16S reverse primer (BacR287) (ABI) (bact16sABIRev). Bacteroides 16S reverse primer (BacR287) (ABI) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure, method, or attribute sets

Sarbeco_E forward primer (IDT) (cdcCovEIDTFor). Sarbeco_E forward primer (IDT) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sarbeco_E reverse primer (IDT) (cdcCovEIDTRev). Sarbeco_E reverse primer (IDT) Status: active. First released: 2.2.0. Last updated: 2.2.0.

2019-nCoV_N1 forward primer (IDT) (cdcCovN1IDTFor). 2019-nCoV_N1 forward primer (IDT) Status: active. First released: 2.2.0. Last updated: 2.2.0.

2019-nCoV_N1 reverse primer (IDT) (cdcCovN1IDTRev). 2019-nCoV_N1 reverse primer (IDT) Status: active. First released: 2.2.0. Last updated: 2.2.0.

2019-nCoV_N2 forward primer (IDT) (cdcCovN2IDTFor). 2019-nCoV_N2 forward primer (IDT) Status: active. First released: 2.2.0. Last updated: 2.2.0.

2019-nCoV_N2 reverse primer (IDT) (cdcCovN2IDTRev). 2019-nCoV_N2 reverse primer (IDT) Status: active. First released: 2.2.0. Last updated: 2.2.0.

2019-nCoV_N3 forward primer (IDT) (cdcCovN3IDTFor). 2019-nCoV_N3 forward primer (IDT) Status: active. First released: 2.2.0. Last updated: 2.2.0.

2019-nCoV_N3 reverse primer (IDT) (cdcCovN3IDTRev). 2019-nCoV_N3 reverse primer (IDT) Status: active. First released: 2.2.0. Last updated: 2.2.0.

PMMV forward primer (ABI) (pmmvABIFor). PMMV forward primer (ABI) Status: active. First released: 2.2.0. Last updated: 2.2.0.

PMMV reverse primer (ABI) (pmmvABIRev). PMMV reverse primer (ABI) Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

VSV forward primer (ABI) (vsvABIFor). VSV forward primer (ABI)
Status: active. First released: 2.2.0. Last updated: 2.2.0.

VSV reverse primer (ABI) (vsvABIRev). VSV reverse primer (ABI)
Status: active. First released: 2.2.0. Last updated: 2.2.0.

Protocol Relationships set

(protocolRelSet)set for valid values of relationshipID in the protocolRelationships table. Use only for protocolRelationships table relationshipID.
Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Is Before (before). Specifies that the object step or protocol occurs before the subject step or protocol in the overall protocol container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Is concurrent to (concurrent). Specifies that the object step or protocol occurs at the same time as the subject step or protocol in the overall protocol container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Specifies (specifies). Specifies that the object step or protocol occurs specifies details for the subject step or protocol in the overall protocol container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Purpose set

(purposeSet)Purpose set for a sample or measure. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Education (education). A measure or sample taken for education or training. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

Multiple Purpose (multiple). A measure or sample taken for multiple purposes, not easily captured by the other purpose categories. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Provisional report (provisional). A provisional or interim report. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality control (qualityControl). A measure or sample taken for the purpose of quality control. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Regular (regular). A measure or sample taken for surveillance or epidemiology. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Testing (testing). A measure or sample taken to test a new method. These measures are typically used for internal lab uses and not reported to external partners. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Validation study (validationStudy). A measure or sample taken for a validation study. Status: active. First released: 2.0.0. Last updated: 2.0.0.

General Relationship Set

(relSet)set for valid values of relationshipID across all fields and tables. Status: active. First Released: 2.2.3. Last updated: 2.2.3.

Is Before (before). Specifies that the object step or protocol occurs before the subject step or protocol in the overall protocol container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Child relationship (child). Indicated that this is a sample generated from (an)other sample(s) either because of pooling or sub-sampling. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Co-located sample (collocated). Second or multiples samples collected at same location but different time (water, air) or at a nearby location (soil, sediment). Sent blind to laboratory. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Is concurrent to (concurrent). Specifies that the object step or protocol occurs at the same time as the subject step or protocol in the overall protocol container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Field sample replicate (fieldReplicate). A sample divided into two or more homogeneous parts. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Laboratory duplicate (labDuplicate). Second (time or more) processing and analysis of sample. Usually for general chemistry or metals analyses. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Laboratory control sample duplicate (lcSD). Known amounts of an analyte or representative compounds are added to a second “clean” matrix (lab water or clean sand) in laboratory. Duplicate of LCS Status: active. First released: 2.0.0. Last updated: 2.0.0.

Matrix spike duplicate (msd). A known amounts of an analyte or representative compounds are added in the laboratory to a second aliquot of the sample used for matrix spike. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Specifies (specifies). Specifies that the object step or protocol occurs specifies details for the subject step or protocol in the overall protocol container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Replicate Type set

(replicateSet)The set for storing valid categorical values of replicate type. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

Co-located sample (collocated). Second or multiples samples collected at same location but different time (water, air) or at a nearby location (soil, sediment). Sent blind to laboratory. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Field sample replicate (fieldReplicate). A sample divided into two or more homogeneous parts. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Laboratory duplicate (labDuplicate). Second (time or more) processing and analysis of sample. Usually for general chemistry or metals analyses. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Laboratory control sample duplicate (lcsd). Known amounts of an analyte or representative compounds are added to a second “clean” matrix (lab water or clean sand) in laboratory. Duplicate of LCS Status: active. First released: 2.0.0. Last updated: 2.0.0.

Matrix spike duplicate (msd). A known amounts of an analyte or representative compounds are added in the laboratory to a second aliquot of the sample used for matrix spike. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Unique sample (unique). A unique sample, not duplicated. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Resuspension method set

(resusSet)The set to describe valid categorical values for the resuspension method. Status: active. First Released: 2.2.0. Last updated: 2.2.0.

Elution buffer (elutionBuff). Elution buffer is used to resuspend material. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Retained Element Set

(retElSet)The set for enumerating the valid possible values of the retained element method. Status: active. First Released: 2.2.0. Last updated: 2.2.0.

Eluate/Resuspended filter material retained (eluate). The eluate fraction, or material resuspended from filtration, is retained after solid separation/centrifugation. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Liquid/Supernatant retained (liquid). The liquid or supernatant is retained after solid separation/centrifugation. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Solids/Pellet retained (solid). The solids or pellet is retained after solid separation/centrifugation. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sample material set

(sampleMatSet)set for the types of material that can be found in a sample. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Air filter (afu). Air filter as part of filtration or circulating unit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Automatic composite sampling (autoComp). A composite sampler which is automated to collect and store multiple wastewater samples across multiple time points. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Automatic sequential sampling (autoSeq). A composite sampler which is automated to collect and combine multiple samples of equal volume taken at a set time interval. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Measure, method, or attribute sets

Cone-shaped sampling (cone). Instrument type is a grab sample that has a controlled valve that opens to take a sample from a specific depth, then closes to bring the sample out. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Core sampling (core). Instrument type is a grab sampler that captures a vertical section of the substrate matrix of fecal sludge. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Desk or counter (desk). Desk, table, countertop or other flat working surface. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wastewater Effluent - non-specified (effluNS). Sample material is wastewater effluent - whether primary, secondary or other is unspecified. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Fecal matter (faeces). Fecal matter. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Floor (floor). Floor of a building or room. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Horizontal grab sampling (horGrb). Instrument type is a grab sampler in which the container for the sample is mounted on the end of a rod, which is suitable for collecting discharge from a pipe or truck. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Holding tank wastewater (htSam). Wastewater sampled from a holding tank, such as from an airplane or ship Status: active. First released: 2.0.0. Last updated: 2.0.0.

Water (nww). Non-wastewater, coming from any kind of water body Status: active. First released: 1.0.0. Last updated: 2.0.0.

Primary clarifier effluent (pEfflu). Effluent obtained after primary clarifiers Status: active. First released: 1.0.0. Last updated: 2.0.0.

Primary clarifier sludge (pSludge). Sludge produced by primary clarifiers Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Post-grit (pstGrit). Raw wastewater after a treatment plant's headworks (post grit or removal of large solids at a treatment plant but prior to a primary clarifier) Status: active. First released: 1.0.0. Last updated: 2.0.0.

Raw sewage at site (rawWW). Wastewater without any form of treatment Status: active. First released: 1.0.0. Last updated: 2.0.0.

Raw sewage downstream from a site (rawWWdown). Downstream from a site. See partType = rawWWup. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Raw sewage upstream from a site (rawWWup). Upstream from a site. Used when there is not direct access to a site's wastewater in conjunction with downstream sample. For example, if the site is a long-term care home, but there is no access to the building or property cleanout. Use two samples, one sample upstream and one sample downstream. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Secondary clarifier effluent (sEfflu). Effluent obtained after secondary clarifiers Status: active. First released: 1.0.0. Last updated: 2.0.0.

Septic tank wastewater (septage). Wastewater from within a septic tank Status: active. First released: 1.0.0. Last updated: 2.0.0.

Wastewater Sludge - non-specified (sludgeNS). Sample material is wastewater sludge - whether primary, secondary or other is unspecified. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Secondary clarifier sludge (sSludge). Sludge produced by secondary clarifiers Status: active. First released: 1.0.0. Last updated: 2.0.0.

Other surface (surface). Surface other than floor or desk. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sewer sediment (swrSed). Sediments obtained in sewer Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

Passive (trap) sampling (trap). A composite sampler that passively collects a sample without use of electricity or a battery. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Vacuum sludge sampling (vac). Instrument type is a grab sampler that takes a sample at a designated depth with minimal disturbance to surrounding layers. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Vertical grab sampling (vertGrb). Instrument type is a grab sampler in which the container for the sample is mounted on the end of a rod, which is suitable for collecting waste from a tank. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Sample relationships set

(sampleRelSet)set for valid values of relationshipID in the sampleRelationships table. Use only for sampleRelationships table relationshipID. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Child relationship (child). Indicated that this is a sample generated from (an)other sample(s) either because of pooling or sub-sampling. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Co-located sample (colocated). Second or multiples samples collected at same location but different time (water, air) or at a nearby location (soil, sediment). Sent blind to laboratory. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Field sample replicate (fieldReplicate). A sample divided into two or more homogeneous parts. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Laboratory duplicate (labDuplicate). Second (time or more) processing and analysis of sample. Usually for general chemistry or metals analyses. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Laboratory control sample duplicate (lcsd). Known amounts of an analyte or representative compounds are added to a second “clean” matrix (lab water or clean sand) in laboratory. Duplicate of LCS Status: active. First released: 2.0.0. Last updated: 2.0.0.

Matrix spike duplicate (msd). A known amounts of an analyte or representative compounds are added in the laboratory to a second aliquot of the sample used for matrix spike. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sequencing script version set

(scriptSet)The set for script versions Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Freyja Script (freyja). Freyja Script for sequencing. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gromstole 1.0 Script (gromstole). Gromstole 1.0 Script for sequencing. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sequencing Layout set

(seqLaySet)The set for the layout of genetic material used in sequencing Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Mate pair layout (mateLay). Specifies the mate pair layout for a sequencing method. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Paired Layout (pairLay). Specifies the paired layout for a sequencing method Status: active. First released: 2.0.0. Last updated: 2.0.0.

Single Layout (sinLay). Specifies the single layout for a sequencing method Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

Sequencing selection method set

(seqSelSet)The set for the selection method used in sequencing Status: active. First Released: 2.0.0. Last updated: 2.0.0.

PCR sequencingsSelection method (pcrSeq). Specifies the PCR selection method for sequencing, ie. that a pre-determined primer was used. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Random sequencing selection method (ranSeq). Specifies the random selection method for sequencing Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sequencing Strategy set

(seqStratSet)The set for the sequencing strategy used for an analysis Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Amplicon sequencing (amp). Specifies the amplicon strategy for genetic sequencing Status: active. First released: 2.0.0. Last updated: 2.0.0.

Whole genome sequencing (wgs). Specifies the whole genome sequencing (WGS) strategy for genetic sequencing Status: active. First released: 2.0.0. Last updated: 2.0.0.

Severity set

(sevSet)A set for severity indicators. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

High severity (high). Indicates a very sever quality issue, likely meaning the data should not be reported. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Low severity (low). A marker for low severity Status: active. First released: 2.0.0. Last updated: 2.0.0.

Mid-level severity (mid). A marker for med-level severity, where there are some concerns. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sampleshed set

(shedSet)The set for all valid values of sampleshed. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Airplane (airpln). Airplane sample shed category type Status: active. First released: 1.0.0. Last updated: 2.0.0.

Airport (airport). Airport sample shed category type Status: active. First released: 2.0.0. Last updated: 2.0.0.

Bus (bus). A large motor vehicle carrying passengers by road, typically one serving the public on a fixed route and for a fare. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Bus Station (busStat). A terminal where buses arrive and depart. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Long-term acute care hospital (ccc). Acute care hospitals, or complex continuing care, that provide care for patients with average length of stay longer than 25 days. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Child day care (cdc). Child day care facility. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Commercial facility - not specified (commFacOth). Specifies a site type which is a commercial facility/worksites that is not otherwise captured or described in the geotype set. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Measure, method, or attribute sets

Correctional facility (corFcil). Correctional facility Status: active. First released: 1.0.0. Last updated: 2.0.0.

Higher education dormitory or residential building (dorm). Higher education dormitory or residential building Status: active. First released: 2.0.0. Last updated: 2.0.0.

First Nation (fiNa). Used to categorize a sample that is a First Nation, or on reserve lands. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Hospital (hosptl). Hospital Status: active. First released: 1.0.0. Last updated: 2.0.0.

Land-based Transit Hub (landTH). A transport hub is a place where passengers and cargo are exchanged between land-based vehicles and/or between land-based transport modes. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Long-term care facility (ltcf). A residential healthcare facility that provides 24-medical care. These are also called skilled nursing facilities. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Long-term care - assisted living or retirement home (ltcfAl). A residential facility that provides assistance with daily care but generally does not provide skilled nursing care. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Other long-term care (ltcfO). Other residential facilities that provide daily and/or medical care, but are not defined as nursing home/skilled nursing facilities or assisted living facilities. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Municipality (municip). A complete municipality, this specifies an entire metropolitan area, either a city, town, etc. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Neighbourhood (neigh). A municipal neighbourhood, this specifies a sub-section of a larger municipality. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Other residential building (orb). Individual residential buildings or institutions not captured in other categories Status: active. First released: 2.0.0. Last updated: 2.0.0.

Port or Harbour (port). A harbor is any sheltered body of water where boats or ships may moor or anchor. A port is an installation that has been built around a harbor with facilities for loading and unloading such vessels. Status: active. First released: 2.2.3. Last updated: 2.2.3.

School (school). A school serving students in the kindergarten to 12th grade range Status: active. First released: 1.0.0. Last updated: 2.0.0.

Ship (ship). A cruise ship or other ship. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Social services shelter (sss). Other type of social services shelter Status: active. First released: 2.0.0. Last updated: 2.0.0.

Airport terminal (terminal). Airport terminal sample shed category type Status: active. First released: 2.0.0. Last updated: 2.0.0.

Transport hub - General (tHub). A transport hub not otherwise specified. i.e. a place where passengers and cargo are exchanged between vehicles or/and between transport modes. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Train (train). A series of railroad cars moved as a unit by a locomotive or by integral motors. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Transportation vehicle - general (transp). A vehicle, i.e. a mobile machine, transporting people or cargo, of a type not otherwise specified. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Measure, method, or attribute sets

Train Station (trStat). A place on a railroad line where trains regularly stop so that passengers can get on or off. Status: active. First released: 2.2.3. Last updated: 2.2.3.

University campus (uCampus). University or college campus - comprising an entire campus or part of a campus. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Water-based Transit Hub (waterTH). A transport hub is a place where passengers and cargo are exchanged between water-based vehicles and/or between water-based transport modes. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Short Name Set

(shrtNameSet)The abbreviated short name used to reference the The table that contains information about addresses. Addresses can recorded for sites, organizations or contacts (individuals). Status: active. First Released: 2.2.2. Last updated: 2.2.2.

Address table Shorthand (ad). The abbreviated short name used to reference the The table that contains information about addresses. Addresses can recorded for sites, organizations or contacts (individuals). Status: active. First released: 2.2.2. Last updated: 2.2.2.

Contact table Shorthand (co). The abbreviated short name used to reference the The table that contains information about a contact; a person who is the contact of a site or laboratory. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Countries look-up tables Shorthand (cu). The abbreviated short name used to reference the Look up table for the possible country inputs. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Dataset table Shorthand (ds). The abbreviated short name used to reference the A report table for capturing details about data's parental

Sets

data set and data custodians. Supplying attribution for data collectors.
Status: active. First released: 2.2.2. Last updated: 2.2.2.

Instrument table Shorthand (in). The abbreviated short name used to reference the The table that contains information about instruments.
Status: active. First released: 2.2.2. Last updated: 2.2.2.

Language Look-up table Shorthand (la). The abbreviated short name used to reference the Look up table for all languages, used to give structure to the translation table.
Status: active. First released: 2.2.2. Last updated: 2.2.2.

Measures Part-type Shorthand (mes). The abbreviated short name used to reference the The attribute to describe a part type of measures.
All measures have `partType = "measure"`. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Methods part-type Shorthand (met). The abbreviated short name used to reference the Procedures or steps for collecting samples or performing measures.
Status: active. First released: 2.2.2. Last updated: 2.2.2.

Measure report table Shorthand (mr). The abbreviated short name used to reference the The table that contains information and details about a given measure
Status: active. First released: 2.2.2. Last updated: 2.2.2.

Measure set report table Shorthand (ms). The abbreviated short name used to reference the The table that identifies sets of measures.
Status: active. First released: 2.2.2. Last updated: 2.2.2.

Organization table Shorthand (or). The abbreviated short name used to reference the The table that contains information about a laboratory.
Status: active. First released: 2.2.2. Last updated: 2.2.2.

Parts Look-up table Shorthand (pa). The abbreviated short name used to reference the Look up table containing all parts in of the data model.
Status: active. First released: 2.2.2. Last updated: 2.2.2.

Measure, method, or attribute sets

Polygon table Shorthand (po). The abbreviated short name used to reference the The table that contains information about the geometry of a geographic area. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Protocol relationships table Shorthand (pr). The abbreviated short name used to reference the The table that contains the organizational information and details (such as order) about a given protocol, recorded as a series of protocol steps (protocolSteps). Status: active. First released: 2.2.2. Last updated: 2.2.2.

Protocols table Shorthand (pro). The abbreviated short name used to reference the The table for protocols. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Protocol steps table Shorthand (ps). The abbreviated short name used to reference the The table for collecting metadata on individual steps in a protocol, methodological process, or assay. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Quality reports table Shorthand (qr). The abbreviated short name used to reference the The table for recording the various quality metrics and indicators for samples and measures. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Sample relationships table Shorthand (sar). The abbreviated short name used to reference the Table for recording the relationships between samples. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Sample report table Shorthand (sas). The abbreviated short name used to reference the The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Sets look-up table Shorthand (se). The abbreviated short name used to reference the Look up table for all sets, managing how categorical inputs

Sets

for various methods and attributes are grouped together. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Sites table Shorthand (si). The abbreviated short name used to reference the The table that contains information about a site; the location where an environmental sample was taken. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Summary worksheet Shorthand (su). The abbreviated short name used to reference the Summary sheet of the dictionary.xlsx file. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Translation look-up table Shorthand (tr). The abbreviated short name used to reference the Look up table for translations of the description, label, and instruction for all parts. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Wide name table Shorthand (wn). The abbreviated short name used to reference the The table for wide names. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Zones look-up table Shorthand (zo). The abbreviated short name used to reference the Look up table for the possible sub-national region or zone inputs. Status: active. First released: 2.2.2. Last updated: 2.2.2.

Site set

(siteTypeSet)set for the type of sampling site. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Branch sewer pipeline (bSwrPpl). Specifies a site type that is collection pipe that run lateral to other municipal sewer lines, allowing drainage into the main sewer. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

Building cleanout (buildCO). Specifies a site type that is a capped pipe that connects to a building's main sewer line. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Composting toilet (compToi). A self-contained toilet system wherein human waste is designed to be composted. Usually with the addition of secondary materials, like sawdust. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Sewer (drain) (drain). A pipe that carries water or sewage away from a place, or an opening in a surface that leads to said pipe. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Estuary, natural water body (estuary). Estuary, natural water body Status: active. First released: 1.0.0. Last updated: 2.0.0.

Holding tank (htSite). Holding tank Status: active. First released: 1.0.0. Last updated: 2.0.0.

Lagoon system (lagoon). Lagoon system for extensive wastewater treatment Status: active. First released: 1.0.0. Last updated: 2.0.0.

Lake, natural water body (lake). Lake, natural water body Status: active. First released: 1.0.0. Last updated: 2.0.0.

Latrine (latrine). A toilet or outhouse, especially a communal one in a camp or barracks. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Major sewer pipeline (mSwrPpl). Major sewer pipeline Status: active. First released: 1.0.0. Last updated: 2.0.0.

Ocean, natural water body (ocean). Ocean, natural water body Status: active. First released: 1.0.0. Last updated: 2.0.0.

Pumping station (pStat). Pumping station Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Retention pond (retPond). Retention pond Status: active. First released: 1.0.0. Last updated: 2.0.0.

River, natural water body (river). River, natural water body Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sea, natural water body (sea). Sea, natural water body Status: active. First released: 1.0.0. Last updated: 2.0.0.

Septic tank (septTnk). Septic tank Status: active. First released: 1.0.0. Last updated: 2.0.0.

Stabilization pond (stabPnd). Specifies a site type which is a pond designed and built for wastewater treatment to reduce the organic content and remove pathogens from wastewater. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sewage truck (swgTrck). Sewage truck Status: active. First released: 1.0.0. Last updated: 2.0.0.

Wastewater Triturator (triturator). The location where wastewater transportation vehicles unload wastewater. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Upstream sites (upstream). A general site type for upstream wastewater sampling sites. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Wastewater treatment plant (wwtp). A general site type for wastewater treatment plants. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Back-up wastewater treatment site (wwtpBack). Indicates a wastewater treatment plant where multiple labs are or were sampling, and where secondary samples are being taken taken. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

Industrial wastewater treatment plant (wwtpInd). Industrial wastewater treatment plant Status: active. First released: 1.0.0. Last updated: 2.0.0.

Municipal wastewater treatment plant for combined sewage (wwtpMuC). Municipal wastewater treatment plant for combined sewage Status: active. First released: 1.0.0. Last updated: 2.0.0.

Municipal wastewater treatment plant for sanitary sewage only (wwtpMuS). Municipal wastewater treatment plant for sanitary sewage only Status: active. First released: 2.0.0. Last updated: 2.0.0.

Solid separation set

(solidSeparationSet)set for the separation of solids. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Centrifugation (cent). Describes solid separation from a wastewater sample via centrifugation. Likely connected to other method steps prior to analysis. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Filtration (filt). Describes solid separation from a wastewater sample via filtration. Proceeds further concentration or analysis of the liquid filtrate. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gravity settling (graSet). Describes solid separation from a wastewater sample where the sample material is allowed to settle by gravity, and then separated. Status: active. First released: 2.0.0. Last updated: 2.0.0.

No Separation or Concentration (noSep). Denoted that a sample did not undergo a solids separation protocol, or did not undergo a sample concentration protocol. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Spike material set

(spikeMatSet)set for spikeMat (aterial into which the recovery efficiency control target is spiked). Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Clarified sample (clari). Clarified sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Concentration measure (conc). Measurement of concentration (generalized) - designed for describing protocols. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Dewatered solids (deso). Dewatered solids. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Lysis buffer (lysi). Lysis buffer. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Raw wastewater (raws). Raw wastes water sample Status: active. First released: 1.0.0. Last updated: 2.0.0.

Raw post-pasteurized wastewater (rppw). Raw wastewater sample post-pasteurization Status: active. First released: 1.0.0. Last updated: 2.0.0.

Recovery efficiency spike target set

(spikeTargetSet)The set capturing containing all of the valid categories for the recovery efficiency control (or spike) target. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

bcov culture spike target (bcovCul). Cultured bovine coronavirus is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

bcov spike target (unspecified) (bcovGen). The bovine coronavirus (unspecified) is used as the recovery efficiency control target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

bcov vaccine spike target (bcovVac). The bovine coronavirus vaccine is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

brsv culture spike target (brsvCul). Cultured bovine respiratory syncytial virus (BRSV) is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

brsv vaccine spike target (brsvVac). The bovine respiratory syncytial virus (BRSV) vaccine is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Heat inactivated sars-cov-2 virus spike target (heatInacSARS). Heat inactivated SARS-CoV-2 virus is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

hep g armored rna spike target (hepGRnaMat). Hepatitis G armored RNA is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

murine hepatitis virus (MHV) spike target (mhvSpike). Murine hepatitis virus is used as the recovery efficiency control target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

ms2 coliphage spike target (ms2ColMat). ms2 coliphage is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

murine coronavirus spike target (muCoMat). Murine coronavirus is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

oc43 spike target (oc43Mat). Human coronavirus OC43 is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Parapoxvirus Orf Virus Spike Target (parapoxSpike). parapoxvirus // Orf virus is used as the recovery efficiency control target. Status: active. First released: 2.2.0. Last updated: 2.2.0.

phi6 spike target (phi6Mat). Pseudomonas virus phi6is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Puro virus spike target (puroMat). Puro Virus is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Vesicular stomatitis virus (VSV) target (vsv). Vesicular stomatitis virus is used as the recovery efficiency control target. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Status set

(statusSet)A set for partID = Status to indicate whether a part is in current use or not. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Active (active). Indicator that a part is in current use. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Deprecated (deprecated). Indicator to say that a part is no longer in current use in the model. See partID = status Status: active. First released: 2.0.0. Last updated: 2.0.0.

Development (development). Indicator that a part is under development use. See partID = status Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure, method, or attribute sets

Standard Curve Calculation Set

(stdCurveSet)The set capturing containing all of the valid methods for the PCR standard curve calculations. Status: active. First Released: 2.2.0. Last updated: 2.2.0.

serial dillution (serDil). Describes a serial dilution process for standard curve generation for PCR. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Table column set

(tableSet)The set for valid inputs in table columns. These categories are used in the parts list for columns named after tables to indicate the position and function of a given part in the entity relationship diagram of the data model. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Foreign key (fK). Foreign key for a table. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Header (header). Header for a table. Also known as a table variable or entiy relationship ‘attribute’. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Input (input). Input for a table. Indicates if a part can be used in a table. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Primary key (pK). Primary key for a table. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Weather set

(weathSet)A set of the valid qualitative categories for the qualitative weather measure. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Sets

Cloudy (cloudy). Qualitative category for the weather measure, specifying an overcast day with no rain. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Foggy (foggy). Qualitative category for the weather measure, specifying a foggy or hazy day. Status: active. First released: 2.0.0. Last updated: 2.0.0.

No rain (noRain). Qualitative category for the weather measure, specifying no rainfall for a given day. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Rainy (rainy). Qualitative category for the weather measure, specifying a rainy day. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Snowy (snowy). Qualitative category for the weather measure, specifying a snowy day. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sunny (sunny). Qualitative category for the weather measure, specifying a clear and sunny day. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Nomenclatures

(nomenclatures). A classification system to report the measure class. See partID = nomenclatureID.

International Classification of Diseases (icd). Classification system for diseases in humans. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Nomenclature not applicable (naNomenclature). Not applicable. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality indicators

NextClade nomenclature (nextclade). Specifies variant or genetic nomenclature as set out by NextClade. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Pangolin nomenclature (pangolin). Specifies variant or genetic nomenclature as set out by the Phylogenetic Assignment of Named Global Outbreak Lineages (Pangolin). Status: active. First released: 2.0.0. Last updated: 2.0.0.

WHO nomenclature (who). Specifies variant or genetic nomenclature as set out by the World Health Organization. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Nomenclature from the NCBI (ncbiNom). Nomenclature from the National Center for Biotechnology Information Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality indicators

(qualityIndicators). A measure of the quality of a reported value or sample. Only used for the dictionary entries of parts.

Below LOD (beLOD). Measure is below the limit of detection (LOD) for a specific analyte. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Experiment Failed (expFail). PCR experiment failed. No value reported. Status: active. First released: 2.0.0. Last updated: 2.0.0.

AI - Inhibition present but addressed (flagAI). The original sample was inhibited; however, the inhibition has been addressed through dilution. The reported concentration estimate is the updated result after addressing inhibition. Status: active. First released: 2.0.0. Last updated: 2.0.0.

B - Trace levels of contamination (flagB). Analytical result may be subject to , $\text{Å}\text{o}$ /Ñ/ trace, $\text{Å}\text{o}$ /Ñ/ levels of contamination; the target analyte

Sets

was also detected in negative controls on the same run as the sample.
Status: active. First released: 2.0.0. Last updated: 2.0.0.

FI - Inhibition present and unaddressed (flagFI). The original sample was inhibited; however, the inhibition has not been successfully addressed. Therefore, no concentration estimate has been reported. Status: active. First released: 2.0.0. Last updated: 2.0.0.

J - Weak signal extrapolation (flagJ). Analytical result falls below the lowest concentration of the experiment-specific standard curve but above the y-intercept value; the reported value is based on the extrapolation of the standard curve in the non-linear region. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ND - Non-detect (flagND). No amplification occurred in the reaction; non-detect. Status: active. First released: 2.0.0. Last updated: 2.0.0.

UJ - Trace signal extrapolation (flagUJ). Observed quantitation cycle is greater than the experiment-specific standard curve intercept value but evidence of clear amplification was present (i.e., $\sqrt{\text{trace}}$, $\sqrt{\text{signal}}$ observed); the reported value is based on the extrapolation of the standard curve in the non-linear region. Status: active. First released: 2.0.0. Last updated: 2.0.0.

UQ - Unquantifiable (flagUQ). Unquantifiable, Ct value exceeds the maximum value of the standard curve. There was a detect, but we cannot quantify it with certainty. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample frozen (frozen). Sample was frozen before analysis or processing
Status: active. First released: 2.0.0. Last updated: 2.0.0.

Low breadth of coverage (lBC). The percentage of the genome covered by reads (the breadth) is low. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality indicators

Low depth of coverage (lDC). Poor coverage, specifically an insufficient number of reads or too many sequencing reads that are mapped incorrectly. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Leaked sample (leaked). Sample leaked, some volume and material was lost. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Low-volume sample (lowVol). Sample is low-volume, but was run regardless. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Multiple issues (mI). Multiple issues have arisen in the sequencing process. Status: active. First released: 2.0.0. Last updated: 2.0.0.

No quality concerns (noConcern). A flag to indicate there are no quality concern about the measure or sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample not labelled (noLabel). Sample had no label Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample missing time stamp (noTime). Sample is missing the autosampler time; incomplete metadata on collection. Status: active. First released: 2.0.0. Last updated: 2.0.0.

NTC Amplification Detected (ntcAmp). Quality flag for when the non-template control (NTC) still sees amplification - ie. The NTCs in qPCR show a Ct value less than 40, or NTCs in a ddPCR have 3 or more positive droplets. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Value out of range (oor). Value is outside of the allowable range for quality control. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Value is an outlier (out). Value is an outlier and may be of questionable quality. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality concerns (qf1). A flag to indicate there is a quality concern, not otherwise specified. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Sparse coverage (sC). Sequencing shows sparse coverage, ie. numerical breadth of coverage shows as adequate but coverage plots reveal missing genome pieces. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample spilled (spill). Sample contents spilled from container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wide 95% interval (wI). The 95% interval is too wide, low confidence in results. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample stored incorrectly (wrongStorage). Sample was stored inappropriately. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample stored at wrong temperature (wrongTemp). Sample was stored at an inappropriate temperature. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measured levels below LOQ (belowLOQ). Indicates that a measurement detected the analyte, but at levels below the limit of quantification (LOQ). Status: active. First released: 2.2.3. Last updated: 2.2.3.

Delayed Arrival or Prolonged Transit (delayArriv). A substantial delay (ie. of more than 14 days) between sample collection and the start of analysis. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Quality indicator sets

(qualityIndSets). Sets of quality indicators or measures. For example, PCR have a quality measure set.

Generic quality flag set

(genQualitySet)A quality set to specify any generic quality concerns about a measure or sample. Status: active. First Released: 1.0.0. Last updated: 2.0.0.

Multiple issues (mI). Multiple issues have arisen in the sequencing process. Status: active. First released: 2.0.0. Last updated: 2.0.0.

No quality concerns (noConcern). A flag to indicate there is no quality concern about the measure or sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Quality concerns (qf1). A flag to indicate there is a quality concern, not otherwise specified. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Measures quality set

(measQualitySet)A quality set for any measure, includes all the quality flag options for any measure. Used as an “any quality set” for measures, but excludes the sample quality flags to avoid confusion and data entry errors. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Below LOD (beLOD). Measure is below the limit of detection (LOD) for a specific analyte. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measured levels below LOQ (belowLOQ). Indicates that a measurement detected the analyte, but at levels below the limit of quantification (LOQ). Status: active. First released: 2.2.3. Last updated: 2.2.3.

Delayed Arrival or Prolonged Transit (delayArriv). A substantial delay (ie. of more than 14 days) between sample collection and the start of analysis. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Sets

Experiment Failed (expFail). PCR experiment failed. No value reported. Status: active. First released: 2.0.0. Last updated: 2.0.0.

AI - Inhibition present but addressed (flagAI). The original sample was inhibited; however, the inhibition has been addressed through dilution. The reported concentration estimate is the updated result after addressing inhibition. Status: active. First released: 2.0.0. Last updated: 2.0.0.

B - Trace levels of contamination (flagB). Analytical result may be subject to ,Äö/Ñ/ trace,Äö/Ñ/ levels of contamination; the target analyte was also detected in negative controls on the same run as the sample. Status: active. First released: 2.0.0. Last updated: 2.0.0.

FI - Inhibition present and unaddressed (flagFI). The original sample was inhibited; however, the inhibition has not been successfully addressed. Therefore, no concentration estimate has been reported. Status: active. First released: 2.0.0. Last updated: 2.0.0.

J - Weak signal extrapolation (flagJ). Analytical result falls below the lowest concentration of the experiment-specific standard curve but above the y-intercept value; the reported value is based on the extrapolation of the standard curve in the non-linear region. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ND - Non-detect (flagND). No amplification occurred in the reaction; non-detect. Status: active. First released: 2.0.0. Last updated: 2.0.0.

UJ - Trace signal extrapolation (flagUJ). Observed quantitation cycle is greater than the experiment-specific standard curve intercept value but evidence of clear amplification was present (i.e., ,Äö/Ñ/ trace,Äö/Ñ/ signal observed); the reported value is based on the extrapolation of the standard curve in the non-linear region. Status: active. First released: 2.0.0. Last updated: 2.0.0.

UQ - Unquantifiable (flagUQ). Unquantifiable, Ct value exceeds the maximum value of the standard curve. There was a detect, but we cannot

Quality indicator sets

quantify it with certainty. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Low breadth of coverage (lBC). The percentage of the genome covered by reads (the breadth) is low. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Low depth of coverage (lDC). Poor coverage, specifically an insufficient number of reads or too many sequencing reads that are mapped incorrectly. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Multiple issues (mI). Multiple issues have arisen in the sequencing process. Status: active. First released: 2.0.0. Last updated: 2.0.0.

No quality concerns (noConcern). A flag to indicate there are no quality concern about the measure or sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample missing time stamp (noTime). Sample is missing the autosampler time; incomplete metadata on collection. Status: active. First released: 2.0.0. Last updated: 2.0.0.

NTC Amplification Detected (ntcAmp). Quality flag for when the non-template control (NTC) still sees amplification - ie. The NTCs in qPCR show a Ct value less than 40, or NTCs in a ddPCR have 3 or more positive droplets. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Value out of range (oor). Value is outside of the allowable range for quality control. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Value is an outlier (out). Value is an outlier and may be of questionable quality. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality concerns (qf1). A flag to indicate there is a quality concern, not otherwise specified. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Sparse coverage (sC). Sequencing shows sparse coverage, ie. numerical breadth of coverage shows as adequate but coverage plots reveal missing genome pieces. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wide 95% interval (wI). The 95% interval is too wide, low confidence in results. Status: active. First released: 2.0.0. Last updated: 2.0.0.

PCR quality set

(pcrQualitySet)Quality set for PCR measures. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Below LOD (beLOD). Measure is below the limit of detection (LOD) for a specific analyte. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measured levels below LOQ (belowLOQ). Indicates that a measurement detected the analyte, but at levels below the limit of quantification (LOQ). Status: active. First released: 2.2.3. Last updated: 2.2.3.

Delayed Arrival or Prolonged Transit (delayArriv). A substantial delay (ie. of more than 14 days) between sample collection and the start of analysis. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Experiment Failed (expFail). PCR experiment failed. No value reported. Status: active. First released: 2.0.0. Last updated: 2.0.0.

AI - Inhibition present but addressed (flagAI). The original sample was inhibited; however, the inhibition has been addressed through dilution. The reported concentration estimate is the updated result after addressing inhibition. Status: active. First released: 2.0.0. Last updated: 2.0.0.

B - Trace levels of contamination (flagB). Analytical result may be subject to , N trace, N levels of contamination; the target analyte

Quality indicator sets

was also detected in negative controls on the same run as the sample.
Status: active. First released: 2.0.0. Last updated: 2.0.0.

FI - Inhibition present and unaddressed (flagFI). The original sample was inhibited; however, the inhibition has not been successfully addressed. Therefore, no concentration estimate has been reported. Status: active. First released: 2.0.0. Last updated: 2.0.0.

J - Weak signal extrapolation (flagJ). Analytical result falls below the lowest concentration of the experiment-specific standard curve but above the y-intercept value; the reported value is based on the extrapolation of the standard curve in the non-linear region. Status: active. First released: 2.0.0. Last updated: 2.0.0.

ND - Non-detect (flagND). No amplification occurred in the reaction; non-detect. Status: active. First released: 2.0.0. Last updated: 2.0.0.

UJ - Trace signal extrapolation (flagUJ). Observed quantitation cycle is greater than the experiment-specific standard curve intercept value but evidence of clear amplification was present (i.e., ΔCt trace, signal observed); the reported value is based on the extrapolation of the standard curve in the non-linear region. Status: active. First released: 2.0.0. Last updated: 2.0.0.

UQ - Unquantifiable (flagUQ). Unquantifiable, Ct value exceeds the maximum value of the standard curve. There was a detect, but we cannot quantify it with certainty. Status: active. First released: 2.0.0. Last updated: 2.0.0.

No quality concerns (noConcern). A flag to indicate there are no quality concern about the measure or sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

NTC Amplification Detected (ntcAmp). Quality flag for when the non-template control (NTC) still sees amplification - ie. The NTCs in qPCR show a Ct value less than 40, or NTCs in a ddPCR have 3 or more

Sets

positive droplets. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Value out of range (oor). Value is outside of the allowable range for quality control. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Value is an outlier (out). Value is an outlier and may be of questionable quality. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample quality set

(sampleQualitySet)Quality set for a sample. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Delayed Arrival or Prolonged Transit (delayArriv). A substantial delay (ie. of more than 14 days) between sample collection and the start of analysis. Status: active. First released: 2.2.3. Last updated: 2.2.3.

Sample frozen (frozen). Sample was frozen before analysis or processing Status: active. First released: 2.0.0. Last updated: 2.0.0.

Leaked sample (leaked). Sample leaked, some volume and material was lost. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Low-volume sample (lowVol). Sample is low-volume, but was run regardless. Status: active. First released: 2.0.0. Last updated: 2.0.0.

No quality concerns (noConcern). A flag to indicate there is no quality concern about the measure or sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample not labelled (noLabel). Sample had no label Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample missing time stamp (noTime). Sample is missing the autosampler time; incomplete metadata on collection. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Quality indicator sets

Sample spilled (spill). Sample contents spilled from container. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample stored incorrectly (wrongStorage). Sample was stored inappropriately. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sample stored at wrong temperature (wrongTemp). Sample was stored at an inappropriate temperature. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sequencing quality set

(seqQualitySet)Quality set for sequencing measures Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Below LOD (beLOD). Measure is below the limit of detection (LOD) for a specific analyte. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Experiment Failed (expFail). PCR experiment failed. No value reported. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Low breadth of coverage (lBC). The percentage of the genome covered by reads (the breadth) is low. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Low depth of coverage (lDC). Poor coverage, specifically an insufficient number of reads or too many sequencing reads that are mapped incorrectly. Status: active. First released: 2.0.0. Last updated: 2.0.0.

No quality concerns (noConcern). A flag to indicate there are no quality concern about the measure or sample. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample missing time stamp (noTime). Sample is missing the autosampler time; incomplete metadata on collection. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

NTC Amplification Detected (ntcAmp). Quality flag for when the non-template control (NTC) still sees amplification - ie. The NTCs in qPCR show a Ct value less than 40, or NTCs in a ddPCR have 3 or more positive droplets. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Value out of range (oor). Value is outside of the allowable range for quality control. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Value is an outlier (out). Value is an outlier and may be of questionable quality. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sparse coverage (sC). Sequencing shows sparse coverage, ie. numerical breadth of coverage shows as adequate but coverage plots reveal missing genome pieces. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wide 95% interval (wi). The 95% interval is too wide, low confidence in results. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Specimens

(specimens). Measures or observations are taken from three types of substances: populations (humans or geographic areas), samples, sites. See partID = specimenID

See Header for Specimen (hSp). An indicator to show in a wide-name that specimen information is located in a different column. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Specimen not applicable (naSpecimen). Non applicable specimen. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population (pop). A measure or observation for a geographic area or population. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Specimen sets

Sample (sa). A measure made on a compartment or property from a sample of a substance. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Site (sit). A measure made on a compartment or property at a site. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Specimen sets

(specimenSets). Sets of specimens. Specimen sets are used when a measure or attribute can be recorded for more than one specimen.

Any specimen set

(anySpecimenSet)A specimen set that includes any specimen. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Population (pop). An measure or observation for a geographic area or population. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample (sa). A measure made on a compartment or property from a sample of a substance. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Site (sit). A measure made on a compartment or property at a site. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Specimen set not applicable

(naSpecimenSet)A specimen set for when specimen/specimen set is not applicable. Use 'not applicable' when there is no specimen/set for the part Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Sets

Specimen not applicable (naSpecimen). Non applicable specimen. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population or sample set

(poSaSpecimenSet)A specimen set that includes population or sample specimen. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Population (pop). An measure or observation for a geographic area or population. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sample (sa). A measure made on a compartment or property from a sample of a substance. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population or site set

(poSiSpecimenSet)A specimen set that includes population or site specimen. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Population (pop). An measure or observation for a geographic area or population. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Site (sit). A measure made on a compartment or property at a site. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population specimen set

(poSpecimenSet)A specimen set that includes only a population specimen. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Population (pop). An measure or observation for a geographic area or population. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Specimen sets

Sample specimen set

(saSpecimenSet)A specimen set that inculdes only a sample specimen. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Sample (sa). A measure made on a compartment or property from a sample of a substance. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Site or sample specimen set

(siSaSpecimenSet)A specimen set that inculdes site or sample specimen. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Sample (sa). A measure made on a compartment or property from a sample of a substance. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Site (sit). A measure made on a compartment or property at a site. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Site specimen set

(siSpecimenSet)A specimen set that inculdes only a site specimen. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Site (sit). A measure made on a compartment or property at a site. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Tables

(tables). Tables are where measures, methods and attributes are recorded. Tables represent the main entities of the environmental surveillance. There An example of a table is **site** a collection of attributes such as site name and address to describe where environment samples are taken. PHE-S-ODM has report tables, but users can create their own tables as well.

Address table (addresses). The table that contains information about addresses. Addresses can recorded for sites, organizations or contacts (individuals). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Contact table (contacts). The table that contains information about a contact; a person who is the contact of a site or laboratory. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Countries look-up tables (countries). Look up table for the possible country inputs. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Dataset table (datasets). A report table for capturing details about data's parental data set and data custodians. Supplying attribution for data collectors. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Instrument table (instruments). The table that contains information about instruments. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Language Look-up table (languages). Look up table for all languages, used to give structure to the translation table. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Measure report table (measures). The table that contains information and details about a given measure Status: active. First released: 1.0.0. Last updated: 2.0.0.

Tables

Measure set report table (measureSets). The table that identifies sets of measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Organization table (organizations). The table that contains information about a laboratory. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Parts Look-up table (parts). Look up table containing all parts in of the data model. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Polygon table (polygons). The table that contains information about the geometry of a geographic area. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Protocol relationships table (protocolRelationships). The table that contains the organizational information and details (such as order) about a given protocol, recorded as a series of protocol steps (protocolSteps). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocols table (protocols). The table for protocols. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Protocol steps table (protocolSteps). The table for collecting metadata on individual steps in a protocol, methodological process, or assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Quality reports table (qualityReports). The table for recording the various quality metrics and indicators for samples and measures. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Reporter table depreciated (reportersDep). The table that contains information about a reporter of a sample, method, measure, or attribute. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Sample relationships table (sampleRelationships). Table for recording the relationships between samples. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Sample report table (samples). The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets look-up table (sets). Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sites table (sites). The table that contains information about a site; the location where an environmental sample was taken. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Translation look-up table (translations). Look up table for translations of the description, label, and instruction for all parts. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wide name table (wideNames). The table for wide names. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Zones look-up table (zones). Look up table for the possible sub-national region or zone inputs. Status: active. First released: 2.1.0. Last updated: 2.1.0.

Units

(units). The unit of the measurement. Every measurement must have a unit. Meaning, units are a mandatory field whenever a measurement is recorded.

Number of active cases (acti). Number of active cases. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Number of active cases by episode date (actiEp). Number of active cases by episode date. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Units

Number of active cases by Onset date (actiOn). Number of active cases by onset date. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Number of active cases by Report date (actiRep). Number of active cases by report date. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Number of active cases by test date (actiTest). Number of active cases by test date. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Breadth of coverage (>=5x depth) (boc). Positions with read depth greater or equal to 5. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Episode date of confirmed cases (caseEpDate). Episode date is the earliest of onset, test or reported date for a confirmed case. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Onset date of confirmed cases (caseOnDate). Earliest that symptoms were reported for a confirmed case. This data is often not known and reported. In lieu, episode is used. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Report date of confirmed cases (caseRepDate). Date that the numbers were reported publicly for a confirmed case. Typically, reported data and this measure is most commonly reported and used. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Test date of confirmed cases (caseTestDate). Date that the covid-19 test was performed for a confirmed case. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Degrees Celcius (cel). Degrees Celsius. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Sets

CFU per 100 ml (cfu). Colony forming units per 100 ml of filtered sample. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Centimetres (cm). Unit part for the SI unit of centimetres. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Number of confirmed cases (conf). Number of confirmed cases. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Number of confirmed cases by episode date (confEp). Number of confirmed cases of a given disease, totaled by episode date. Status: active. First released: 1.0.0. Last updated: 2.2.0.

Number of confirmed Cases Onset date (confOn). Number of confirmed cases of a given disease, totaled by onset date. Status: active. First released: 1.0.0. Last updated: 2.2.0.

Number of confirmed cases by report date (confRep). Number of confirmed cases of a given disease, totaled by report date. Status: active. First released: 1.0.0. Last updated: 2.2.0.

Number of confirmed cases test date (confTest). Number of confirmed cases of a given disease, totaled by test date. Status: active. First released: 1.0.0. Last updated: 2.2.0.

Cycle threshold or quantification cycle (Ct or Cq) (ct). Cycle thresholds in a PCR assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Days (days). A unit for indicating a length of time in days. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Deaths (death). Units for describing a population measure of patients who have died from a given cause. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Detected (det). Substance detected or not detected. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Units

Depth of coverage (doc). The sequencing read depth. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Efficiency (efficient). The efficiency reported for a standard curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gene copies (gc). Gene or variant copies Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per copy of crAssphage (gcCrA). Gene or variant copies per copy of crAssphage. Status: active. First released: 1.0.0. Last updated: 2.0.0.

gene copies per day per 100,000 people (gcD100). The unit for measures reflecting the gene copies per day per 100,000 people in the population. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gene copies per gram solids (gCGS). Gene or variant copies per gram solids. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per L (gcL). Gene or variant copies per litre. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per mL (gcMl). Gene or variant copies per millilitre of solution. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per PMMoV copy (gcPpmov). Gene or variant copies per copy of PMMoV. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gram per cubic metre (gm3). Density unit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Grams (grams). A unit of mass or weight. Status: active. First released: 2.0.0. Last updated: 2.0.0.

General Hospital Admissions (hosa). Hospital admissions or patients newly admitted to hospital. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sets

Hospital Census (hosc). Hospital census or the number of people admitted with an ailment. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Hours (hours). A unit for indicating a length of time in hours. Status: active. First released: 2.0.0. Last updated: 2.0.0.

See Header for Unit (hUn). An indicator to show in a wide-name that unit information is located in a different column. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Intensive care unit patients (icu). Units for describing a population measure of patients who are in intensive care due to a given cause. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Intercept (inter). Intercept value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Kilogram per second (kgS). Kilograms per second. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Kilolitres (kl). Kilolitres of volume Status: active. First released: 2.0.0. Last updated: 2.0.0.

Litres (l). Litres of volume Status: active. First released: 2.0.0. Last updated: 2.0.0.

log10 gene copies per g (log10cpG). Unit for log10 copies per gram Status: active. First released: 2.2.0. Last updated: 2.2.0.

log10 gene copies per L (log10cpL). Unit for log10 copies per litre Status: active. First released: 2.2.0. Last updated: 2.2.0.

log10 gene copies per mL (log10cpml). Unit for log10 copies per mililitre Status: active. First released: 2.2.0. Last updated: 2.2.0.

log10 micrograms per g (log10ugG). Unit for log10 micrograms per gram Status: active. First released: 2.2.0. Last updated: 2.2.0.

Units

log10 micrograms per L (log10ugL). Unit for log10 micrograms per litre Status: active. First released: 2.2.0. Last updated: 2.2.0.

Cubic metres per day (m3D). Cubic metres per day. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Cubic metres per hour (m3H). Cubic metres per hour. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Cubic metres per second (m3S). Cubic metre per second. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Millions of gallons per day (MG/D) (mgd). A unit for measuring of design capacity for wastewater treatment plants, represented as millions of gallons per day. Also can be used to measure flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Milligrams per litre (mgL). Milligrams per litre. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Minutes (minutes). A unit for indicating a length of time in minutes. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Millilitres (ml). Millilitres of volume Status: active. First released: 2.0.0. Last updated: 2.0.0.

Megalitres per day (ML/d) (mld). Megalitres per day. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Millimetres (mm). Unit part for the SI unit of millimetres. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Months (months). A unit for indicating a length of time in months. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Metres per second (mps). metres per second. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Unit not applicable (naUnit). Not applicable for units. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Population of newly vaccinated persons (newVax). Population of newly vaccinated persons Status: active. First released: 2.0.0. Last updated: 2.0.0.

Nano-molar (nM). the unit of nanomolar. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Nephelometric turbidity unit (ntu). Nephelometric Turbidity Units, a unit used in the measurement of turbidity (see “turbidity” under measureIDs). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Other Unit deprecated (otunDep). Other measurement of viral copies or wastewater treatment plant parameter. Add description to UnitOther. Status: depreciated. First released: 1.0.0. Last updated: 2.0.0.

Percent (perc). Percentage. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population equivalents (popEq). A unit for measuring of design capacity for wastewater treatment plants, represented as the approximate amount of water a signle person would use. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Percent positive (pp). Percent positive of sample measures. Status: active. First released: 1.0.0. Last updated: 2.0.0.

parts per million (ppm). Parts per million. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Percent positivity rate (pprt). Percent positivity rate of tests conducted within a day in a given region. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Percent primary sludge (pps). Percentage of total solids, for primary sludge. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Proportion of total (prop). Proportion as a precent of total. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Units

Proportion of variant in sample (propV). Proportion of a variant as percent of total variants. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Number of positive tests (ptot). Number of positive tests conducted within a day in a given region. Status: active. First released: 1.0.0. Last updated: 2.0.0.

R squared (r2). R-squared value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Ratio (ratio). Ratio (unitless) Status: active. First released: 2.0.0. Last updated: 2.0.0.

Recovered patients (recov). Units for describing a population measure of patients who have recovered from a given disease. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Rate per 100,000 (rP100). Units for describing a population measure of a rate of case incidence per 100,000 people of a given disease. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Revolutions per minute (RPM) (rpm). RPM stands for “Revolutions per minute.” This is how centrifuge manufacturers generally describe how fast the centrifuge is going. The rotor, regardless of its size, is revolving at that rate. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Seconds (seconds). The unit of time, seconds. Status: active. First released: 2.2.0. Last updated: 2.2.0.

slope (slope). Slope value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Number of tests performed (test). Number of tests performed. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Micrograms per gram (ugG). Micrograms per gram Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Micrograms per litre (ugL). Micrograms per litre Status: active. First released: 2.2.0. Last updated: 2.2.0.

Micrograms per milligram (ugmg). Concentration unit of micrograms per milligram. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Micro-litres (uL). The unit of microlitres. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Unitless measure (unitless). A unit for unitless measures, like pH. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Micro-Siemens per centimetre (uSCm). Micro-siemens per centimetre. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Frequency of variants detected (varFreq). A description of the frequency of a variants detected. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population with 1 dose of vaccine (vax1). The population with exactly 1 dose of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Proportion of population with 1+ vaccine dose(s) (vax1p). Specifies the portion of the population with 1 or more doses of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Population with 1+ dose(s) of vaccine (vax1plus). The population with 1 or more doses of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population with 2 or more doses of vaccine (vax2). The population with exactly 2 dose of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Proportion of population with 2+ vaccine doses (vax2p). Specifies the portion of the population with 2 or more doses of vaccine, with the

Units

vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Population with 2+ or more doses of vaccine (vax2plus). The population with 2 or more doses of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population with 3 or more doses of vaccine (vax3). The population with exactly 3 dose of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.0.0. Last updated: 2.2.0.

Proportion of population with 3+ vaccine doses (vax3p). Specifies the portion of the population with 3 or more doses of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Population with 3+ or more doses of vaccine (vax3plus). The population with 3 or more doses of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population with 4 or more doses of vaccine (vax4). The population with exactly 4 dose of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Proportion of population with 4+ vaccine doses (vax4p). Specifies the portion of the population with 4 or more doses of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Population with 4+ or more doses of vaccine (vax4plus). The population with 4 or more doses of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Relative Centrifugal Force (RCF) or x g units (xg). RCF (Relative Centrifugal Force) denotes the degree of force exerted on a sample. RCF is quantified in multiples of the gravitational acceleration that is standard at the Earth's surface (x g). Thus, the terms RCF and XG are often used

Sets

interchangeably in centrifugation protocols. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Years (years). A unit for indicating a length of time in years. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Unit sets

(unitSets). Sets of units. Contains units that are associated with part types such as measures. Sets are lists of input values. Each input value within a set is a part (has a partID) that can be reused between sets. For example, a set A could contain the values of ‘yes’ and ‘no’; and set B could contain the values of ‘yes’, ‘no’, and ‘maybe.’ partTypes with sets include aggregations, compartments, missingness, quality flags, specimens, and units. Measures with categories and dataTypes have their own specific sets (catSetID) because their input values are unique and are not reused.

Absolute humidity unit set

(absHumidUnitSet)Unit set for absolute humidity measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Gram per cubic metre (gm3). Density unit. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Allele unit set

(alleleUnitSet)Unit set for alleles. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Unit sets

Cycle threshold or quantification cycle (Ct or Cq) (ct). Cycle thresholds in a PCR assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Detected (det). Substance detected or not detected. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Depth of coverage (doc). The sequencing read depth. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Efficiency (efficient). The efficiency reported for a standard curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gene copies per copy of crAssphage (gcCrA). Gene or variant copies per copy of crAssphage. Status: active. First released: 1.0.0. Last updated: 2.0.0.

gene copies per day per 100,000 people (gcD100). The unit for measures reflecting the gene copies per day per 100,000 people in the population. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gene copies per gram solids (gCGS). Gene or variant copies per gram solids. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per mL (gcMl). Gene or variant copies per millilitre of solution. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per PMMoV copy (gcPpmov). Gene or variant copies per copy of PMMoV. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Intercept (inter). Intercept value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

R squared (r2). R-squared value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

slope (slope). Slope value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Bacteria unit set

(bacteriaUnitSet)Unit set for bacteria-related measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

CFU per 100 ml (cfu). Colony forming units per 100 ml of filtered sample. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Capacity unit set

(capacityUnitSet)Unit set for capacity measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Millions of gallons per day (MG/D) (mgd). A unit for measuring of design capacity for wastewater treatment plants, represented as millions of gallons per day. Also can be used to measure flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Megalitres per day (ML/d) (mld). Megalitres per day. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population equivalents (popEq). A unit for measuring of design capacity for wastewater treatment plants, represented as the approximate amount of water a signle person would use. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Conductivity unit set

(conductivityUnitSet)Unit set related to conductivity measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Micro-Siemens per centimetre (uSCm). Micro-siemens per centimetre. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Unit sets

Dissolved gas concentration unit set

(dissGasUnitSet)Unit set for carbon dioxide concentrations measurements in water or air. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Milligrams per litre (mgL). Milligrams per litre. Status: active. First released: 1.1.0. Last updated: 2.0.0.

parts per million (ppm). Parts per million. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Volume flow rate unit set

(flowUnitSet)Unit set for volume flow measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Kilogram per second (kgS). Kilograms per second. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Cubic metres per day (m3D). Cubic metres per day. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Cubic metres per hour (m3H). Cubic metres per hour. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Cubic metres per second (m3S). Cubic metre per second. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Millions of gallons per day (MG/D) (mgd). A unit for measuring of design capacity for wastewater treatment plants, represented as millions of gallons per day. Also can be used to measure flow. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Megalitres per day (ML/d) (mld). Megalitres per day. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Genetics unit set

(geneticUnitSet)Unit set for genetic-related measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Breadth of coverage (>=5x depth) (boc). Positions with read depth greater or equal to 5. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Cycle threshold or quantification cycle (Ct or Cq) (ct). Cycle thresholds in a PCR assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Detected (det). Substance detected or not detected. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Depth of coverage (doc). The sequencing read depth. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Efficiency (efficient). The efficiency reported for a standard curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gene copies (gc). Gene or variant copies Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per copy of crAssphage (gcCrA). Gene or variant copies per copy of crAssphage. Status: active. First released: 1.0.0. Last updated: 2.0.0.

gene copies per day per 100,000 people (gcD100). The unit for measures reflecting the gene copies per day per 100,000 people in the population. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Gene copies per gram solids (gCGS). Gene or variant copies per gram solids. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per L (gcL). Gene or variant copies per litre. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Unit sets

Gene copies per mL (gcMl). Gene or variant copies per millilitre of solution. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Gene copies per PMMoV copy (gcPpmov). Gene or variant copies per copy of PMMoV. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Intercept (inter). Intercept value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Percent recovery (percRec). Percent of the surrogate recovery for a recovery efficiency control assay. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Proportion of total (prop). Proportion as a percent of total. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Proportion of variant in sample (propV). Proportion of a variant as percent of total variants. Status: active. First released: 1.1.0. Last updated: 2.0.0.

R squared (r2). R-squared value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

slope (slope). Slope value of the calibration curve. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Unit set not applicable

(naUnitSet)Not applicable for unit sets. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Unit not applicable (naUnit). Not applicable for units. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Sets

Population unit set

(populationUnitSet)Unit set for hospital-related measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Number of active cases (acti). Number of active cases. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Number of confirmed cases (conf). Number of confirmed cases. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Number of confirmed cases by episode date (confEp). Number of confirmed cases of a given disease, totaled by episode date. Status: active. First released: 1.0.0. Last updated: 2.2.0.

Number of confirmed Cases Onset date (confOn). Number of confirmed cases of a given disease, totaled by onset date. Status: active. First released: 1.0.0. Last updated: 2.2.0.

Cumulative count (cuCo). The cumulative count of cases of a given disease. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Daily count (daiCo). The daily count of cases of a given disease. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Deaths (death). Units for describing a population measure of patients who have died from a given cause. Status: active. First released: 2.0.0. Last updated: 2.0.0.

General Hospital Admissions (hosa). Hospital admissions or patients newly admitted to hospital. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Hospital Census (hosC). Hospital census or the number of people admitted with an ailment. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Unit sets

Intensive care unit patients (icu). Units for describing a population measure of patients who are in intensive care due to a given cause. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Population of newly vaccinated persons (newVax). Population of newly vaccinated persons Status: active. First released: 2.0.0. Last updated: 2.0.0.

Percent positivity rate (pprt). Percent positivity rate of tests conducted within a day in a given region. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Number of positive tests (ptot). Number of positive tests conducted within a day in a given region. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Recovered patients (recov). Units for describing a population measure of patients who have recovered from a given disease. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Rate per 100,000 (rP100). Units for describing a population measure of a rate of case incidence per 100,000 people of a given disease. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Number of tests performed (test). Number of tests performed. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Population with 1 dose of vaccine (vax1). The population with exactly 1 dose of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Population with 2 or more doses of vaccine (vax2). The population with exactly 2 dose of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Population with 3 or more doses of vaccine (vax3). The population with exactly 3 dose of vaccine, with the vaccine specified in the measure field. Status: active. First released: 2.0.0. Last updated: 2.2.0.

Sets

Precipitation unit set

(precipitationUnitSet)Unit set for percipitation measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Centimetres (cm). Unit part for the SI unit of centimetres. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Millimetres (mm). Unit part for the SI unit of millimetres. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Relative humidity unit set

(relHumidUnitSet)Unit set for relative humidity measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Percent (perc). Percentage. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Specific humidity unit set

(specHumidUnitSet)Unit set for specific humidity. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Ratio (ratio). Ratio (unitless) Status: active. First released: 2.0.0. Last updated: 2.0.0.

Speed Unit Set

(speedUnitSet)Unit set for reporting speeds (centrifugation speed, etc.) Status: active. First Released: 2.2.0. Last updated: 2.2.0.

Metres per second (mps). metres per second. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Unit sets

Revolutions per minute (RPM) (rpm). RPM stands for “Revolutions per minute.” This is how centrifuge manufacturers generally describe how fast the centrifuge is going. The rotor, regardless of its size, is revolving at that rate. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Relative Centrifugal Force (RCF) or x g units (xg). RCF (Relative Centrifugal Force) denotes the degree of force exerted on a sample. RCF is quantified in multiples of the gravitational acceleration that is standard at the Earth’s surface (x g). Thus, the terms RCF and XG are often used interchangeably in centrifugation protocols. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Standard concentration unit set

(stdConcentrationUnitSet)Unit set for concentration measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Milligrams per litre (mgL). Milligrams per litre. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Nano-molar (nM). the unit of nanomolar. Status: active. First released: 2.2.0. Last updated: 2.2.0.

parts per million (ppm). Parts per million. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Percent primary sludge (pps). Percentage of total solids, for primary sludge. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Micrograms per milligram (ugmg). Concentration unit of micrograms per milligram. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Micro-litres (uL). The unit of microlitres. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Sets

Temperature unit set

(temperatureUnitSet)Unit set for temperature measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Degrees Celcius (cel). Degrees Celsius. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Time unit set

(timeUnitSet)The unit set for measures of time. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Days (days). A unit for indicating a length of time in days. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Hours (hours). A unit for indicating a length of time in hours. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Minutes (minutes). A unit for indicating a length of time in minutes. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Months (months). A unit for indicating a length of time in months. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Seconds (seconds). The unit of time, seconds. Status: active. First released: 2.2.0. Last updated: 2.2.0.

Years (years). A unit for indicating a length of time in years. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Turbidity unit set

(turbidityUnitSet)Unit set for turbidity measurements. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Nephelometric turbidity unit (ntu). Nephelometric Turbidity Units, a unit used in the measurement of turbidity (see “turbidity” under measureIDs). Status: active. First released: 2.0.0. Last updated: 2.0.0.

Unitless unit set

(unitlessUnitSet)Unit set for measurements that does not have units. Status: active. First Released: 2.0.0. Last updated: 2.0.0.

Unitless measure (unitless). A unit for unitless measures, like pH. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Volume unit set

(volumeUnitSet)Unit set of volume measurements. Status: active. First Released: 1.0.0. Last updated: 2.0.0.

Grams (grams). A unit of mass or weight. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Kilolitres (kl). Kilolitres of volume Status: active. First released: 2.0.0. Last updated: 2.0.0.

Litres (l). Litres of volume Status: active. First released: 2.0.0. Last updated: 2.0.0.

Millilitres (ml). Millilitres of volume Status: active. First released: 2.0.0. Last updated: 2.0.0.

Millimetres (mm). Unit part for the SI unit of millimetres. Status: active. First released: 1.1.0. Last updated: 2.0.0.

Sets

Percent positive (pp). Percent positive of sample measures. Status: active. First released: 1.0.0. Last updated: 2.0.0.

Sub-variant or lineage (subVar). A unit used to report a specific genetic lineage, or to specify that a reported variant is a sub-variant of another. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Frequency of variants detected (varFreq). A description of the frequency of variants detected. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Wind speed unit set

(windSpeedUnitSet)Unit set for wind speed measurements. Status: depreciated. First Released: 1.0.0. Last updated: 2.0.0.

Metres per second (mps). metres per second. Status: active. First released: 2.0.0. Last updated: 2.0.0.

Tables

Dictionary v2.2.3 Documentation v2.1.0

The ODM database model has 21 tables in its full relational database. The full model is commonly referred to as “long” tables as it stores data with one measurement per row. Each table has mandatory and optional headers.

Data storage

Store all ODM data in the 21 recommended tables to ensure optimal interoperability and support by the [ODM validation toolkit](#) and other ODM libraries.

Users can, however, create custom tables or ‘views’ by merging fields from any table. A common format for data entry format are “wide” table format, with *one day per row* and multiple measures or attributes per row. It is important to note that this guide does not provide instructions on generating wide tables.

Table types

There are five table types:

- 1) **Regular report tables.** The `measures` and `samples` tables are used for daily reporting of new measurements and information on sample collection. There are three tables that support regular reporting:- `measureSets`

Tables

(optional) is used to link measures, `sampleRelationships` (optional) is used when samples are pooled or split, and `qualityReports` is used for detailed quality assurance and control measures.

- 2) **Contact information tables.** The `sites`, `organizations`, `contacts`, and `addresses` tables store contact information for the testing site and the person who performed the testing.
- 3) **Protocol or methods tables.** The `protocols` and `instruments` tables hold information on the methods used for sample collection or measurement. `protocolSteps` and `protocolRelationships` tables are used in conjunction with the `protocols` table.
- 4) **Other report tables.** The `polygons` table stores information on the sample area and the `datasets` table includes information on the data custodian and owner.
- 5) **Dictionary reference tables.** The `parts` table describes all elements of the ODM, including tables, table headers, measures, methods, categories, and units. The `sets` table stores collections of parts, such as units grouped together in a unitSet. The `languages` and `translations` tables support translations. The `countries` and `zones` tables standardize location information to the ISO-2 and ISO-3 to reduce ambiguity and free-text errors when populating these fields, while improving interoperability of location metadata.

Header roles

Each table in the ODM has column headers, also known as table variables, fields, or entity relationship attributes. The header serves as the top row and contains the variable name.

Primary key (PK) - With the exception of the dictionary tables, all tables have one primary key. The primary key serves as a unique identifier

Mandatory, optional, mandatoryIf

for each row in the table, meaning that a primary key value cannot be repeated.

Foreign key (FK) - Tables may have one or more foreign keys. A foreign key connects an entry to another table with a primary key. This allows for relationships to be established between tables, making it possible to link data between different tables.

Header (header) - This label is used in a table description when a header is not a primary or foreign key.

Mandatory, optional, mandatoryIf

Each header may be classified as either `mandatory` or `optional`. In the `measures` table, examples of mandatory headers are the `measureID` and `measurement date`. The ODM validation toolkit can be used to validate data, and will return an error if a table lacks a mandatory header or if there are missing row entries for mandatory fields.

Additionally, there are special headers called `mandatoryIf` headers. These headers are mandatory if certain conditions apply. For example, the `protocol steps` table has row entries that are either `measures` or `methods`. If the row entry is a `measure`, then a `unit` becomes `mandatory` since all measures must have a unit. Therefore, units are `mandatoryIf` in the `protocol steps` table.

Table list

Address table

Contact table

Countries look-up tables

Tables

Dataset table
Instrument table
Language Look-up table
Measure report table
Measure set report table
Organization table
Parts Look-up table
Polygon table
Protocol relationships table
Protocols table
Protocol steps table
Quality reports table
Sample relationships table
Sample report table
Sets look-up table
Sites table
Translation look-up table
Wide name table
Zones look-up table

Table list

Address table

partID: addresses. The table that contains information about addresses. Addresses can be recorded for sites, organizations or contacts (individuals). The Sites, Organizations, and Contacts tables include a link to the addresses table through Address ID.

Address Line 1 (addL1). Line 1 (the street name, number and direction) for a given address.Role: Header.Requirement: mandatory.Data type: varchar.

Address Line 2 (addL2). Line 2 (the unit number) for a given address.Role: Header.Requirement: optional.Data type: varchar.

City (city). The city where a site or organization is located; part of the address.Role: Header.Requirement: mandatory.Data type: varchar.

State, Province, or Region (stateProvReg). The state, province, or region where a site or organization is located; part of the address.Role: Header.Requirement: mandatory.Data type: varchar.

Postal or Zip Code (pCode). The zip code or postal code for a given address, specifying a specific geographic area.Role: Header.Requirement: optional.Data type: varchar.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

ISO 3166-1 alpha-2 country code (isoCode). The ISO 3166-1 alpha-2 code, a two-letter country code which is also used to create the ISO 3166-2 country subdivision code and the Internet country code top-level domain.Role: Header.Requirement: optional.Data type: varchar.

Tables

ISO 3166-2 code for country sub-domain (isoZone). The ISO 3166-2 codes for the names of the principal subdivisions (e.g., provinces, states, departments, regions) of all countries coded in ISO 3166-1.Role: Header.Requirement: optional.Data type: varchar.

Contact table

partID: contacts. The table that contains information about a contact; a person who is the contact of a site or laboratory. adapt from verson 1 documentation

First name of contact (firstName). Specifies the first name of a given contact.Role: Header.Requirement: optional.Data type: varchar.

Last name of contact (lastName). Specifies the last name of a given contact.Role: Header.Requirement: optional.Data type: varchar.

Contact email (email). Contact e-mail address, for the lab.Role: Header.Requirement: mandatory.Data type: varchar.

Contact phone (coPhone). Contact phone number, for the lab.Role: Header.Requirement: optional.Data type: varchar.

Role of contact (role). Specifies the organizational role of a given contact.Role: Header.Requirement: optional.Data type: varchar.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attrbitutesRole: Header.Requirement: optional.Data type: varchar.

Table list

Countries look-up tables

partID: countries. Look up table for the possible country inputs.

ISO 3166-1 alpha-3 country code (isoCodeX). The ISO 3166-1 alpha-3 code, a three-letter country code which may allow a better visual association between the code and the country names than the 3166-1 alpha-2 code. Role: Header. Requirement: mandatory. Data type: varchar.

ISO 3166-1 numeric country code (numCode). The ISO 3166-1 numeric code, a three-digit country code which is identical to that developed and maintained by the United Nations Statistics Division, with the advantage of script (writing system) independence, and hence useful for people or systems using non-Latin scripts. Role: Header. Requirement: mandatory. Data type: varchar.

Country code top-level domain (tld). The internet top-level domain generally used or reserved for a country, sovereign state, or dependent territory identified with a country code. Role: Header. Requirement: mandatory. Data type: varchar.

English name for countries (nameEngl). English-language name of a given country. Role: Header. Requirement: mandatory. Data type: varchar.

Official state name (nameOfficial). Official english-language name of a given state. Role: Header. Requirement: mandatory. Data type: varchar.

Sovereign status of a country (sovereignty). Sovereign status of a country, indicating which state has the highest jurisdiction over a given territory. Role: Header. Requirement: mandatory. Data type: varchar.

Country exonym (countryExonym). The English name foreigners use for the country. Role: Header. Requirement: mandatory. Data type: varchar.

Tables

Capital city exonym (capitalExonym). The English name foreigners use for the country,Ãœ/Ñ/¥s capital.Role: Header.Requirement: mandatory.Data type: varchar.

Country endonym (countryEndonym). The name locals use for their country.Role: Header.Requirement: mandatory.Data type: varchar.

Capital city endonym (capitalEndonym). The name locals use for their country,Ãœ/Ñ/¥s capital.Role: Header.Requirement: mandatory.Data type: varchar.

National language script (langScript). The language(s) and script(s) used for the country,Ãœ/Ñ/¥s capital endonyms.Role: Header.Requirement: mandatory.Data type: varchar.

Country national phone prefix (phone). International dialing code for the country.Role: Header.Requirement: mandatory.Data type: varchar.

Coordinated universal time (UTC) zone (utc). UTC ,Ãœ/Ñ/„ Time zone.Role: Header.Requirement: mandatory.Data type: varchar.

Coordinated universal time (UTC) zone in daylight savings (utcDST). Time zone during Daylight Saving Time.Role: Header.Requirement: mandatory.Data type: varchar.

Dataset table

partID: datasets. A report table for capturing details about data's parental data set and data custodians. Supplying attribution for data collectors.

Dataset creation date (datasetDate). Specifies the date a given dataset was created.Role: Header.Requirement: recommended.Data type: date-time.

Name (name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity.Role: Header.Requirement: recommended.Data type: varchar.

Table list

Description (descr). A detailed description of a measure, method, or attribute.Role: Header.Requirement: optional.Data type: varchar.

Reference link (refLink). Link to the reference material for a part. May link to literature on a method, measure, etc.Role: Header.Requirement: optional.Data type: varchar.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Instrument table

partID: instruments. The table that contains information about instruments. adapt from version 1 documentation

Name (name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity.Role: Header.Requirement: recommended.Data type: varchar.

Model (model). Model number or version of the instrument.Role: Header.Requirement: mandatory.Data type: varchar.

Manufacturer (manufacturer). Manufacturer of an instrument.Role: Header.Requirement: optional.Data type: varchar.

Description (descr). A detailed description of a measure, method, or attribute.Role: Header.Requirement: optional.Data type: varchar.

Reference link (refLink). Link to the reference material for a part. May link to literature on a method, measure, etc.Role: Header.Requirement: optional.Data type: varchar.

Tables

Describe other instrument type, if applicable (insTypeOth). Description of the instrument in case it is not listed in instrumentType.Role: Header.Requirement: optional.Data type: varchar.

Index (index). Index number in case the measurement was taken multiple times.Role: Header.Requirement: optional.Data type: varchar.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Language Look-up table

partID: languages. Look up table for all languages, used to give structure to the translation table.

Language family (langFam). Specifies the language family of a given language for translation and language tracking purposes.Role: Header.Requirement: mandatory.Data type: varchar.

Language name (langName). Specifies the name of the language in roman alphabet characters for translation and language tracking purposes.Role: Header.Requirement: mandatory.Data type: varchar.

Native Name (natName). The native name of the language, i.e. what the language is called by its speakers.Role: Header.Requirement: mandatory.Data type: categorical.

ISO639-1 (iso6391). The first part of the ISO 639 series of international standards for language codes. Part 1 covers the registration of two-letter codes. There are 183 two-letter codes registered as of June 2021. The registered codes cover the world's major languages.Role: Header.Requirement: mandatory.Data type: categorical.

Table list

ISO639-2B (iso6392B). A set of international standards that lists short codes for language names. These ISO639-2 are the three-letter codes defined in part two (ISO 639-2) of the standard, including the corresponding two-letter (ISO 639-1) codes where they exist. The ‘B’ specifies the bibliographic code (B code).Role: Header.Requirement: mandatory.Data type: categorical.

ISO639-2T (iso6392T). A set of international standards that lists short codes for language names. These ISO639-2 are the three-letter codes defined in part two (ISO 639-2) of the standard, including the corresponding two-letter (ISO 639-1) codes where they exist. The ‘T’ specifies the terminological code (T code).Role: Header.Requirement: mandatory.Data type: categorical.

ISO639-3 (iso6393). A set of international standards that lists short codes for language names. ISO 639-3 extends the ISO 639-2 alpha-3 codes with an aim to cover all known natural languages.Role: Header.Requirement: mandatory.Data type: categorical.

ISO639-6 (iso6396). A set of international standards that lists short codes for language names. ISO 639-6 builds off ISO639-3 with the use of four-letter codes, and allowing users to differentiate between variants of languages and language families, such as historical vs. revived versions of languages.Role: Header.Requirement: mandatory.Data type: categorical.

First released version (firstReleased). The version in which a part was first releasedRole: Header.Requirement: mandatory.Data type: varchar.

Last updated version (lastUpdated). The version in which the part was last updated.Role: Header.Requirement: mandatory.Data type: varchar.

Changes column (changes). A column for recording the changes from a previous version.Role: Header.Requirement: optional.Data type: varchar.

Tables

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Measure report table

partID: measures. The table that contains information and details about a given measure adapt from verson 1 documentation

Analysis date start (aDateStart). Date the measurement or analysis was started.Role: Header.Requirement: optional.Data type: datetime.

Analysis date end (aDateEnd). Date the measurement or analysis was completed.Role: Header.Requirement: mandatory.Data type: datetime.

Report date (reportDate). The date a measure was reported.Role: Header.Requirement: optional.Data type: datetime.

Value (value). Value of a measure, observation or attribute.Role: Header.Requirement: mandatory.Data type: varchar.

Index (index). Index number in case the measurement was taken multiple times.Role: Header.Requirement: optional.Data type: varchar.

Measure license (measureLic). Specifies the access and use licensing for a given single measurement.Role: Header.Requirement: optional.Data type: categorical.Measure, method or attribute set: licSet

Reportable (reportable). Flag for whether a measure is reportable or not, based on confidence in the measure and methods applied.Role: Header.Requirement: optional.Data type: boolean.

Organization ID (organizationID). A unique identifier for the organization to which the reporter is affiliated.Role: Header.Requirement: optional.Data type: varchar.

Table list

Contact ID (contactID). A unique identifier for a given contact person.Role: Header.Requirement: optional.Data type: varchar.

Reference link (refLink). Link to the reference material for a part. May link to literature on a method, measure, etc.Role: Header.Requirement: optional.Data type: varchar.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Measure set report table

partID: measureSets. The table that identifies sets of measures. Examples of measure sets include a set of replicates, dilutions (used to generate a Ct curve) or variants that are identified in a single sample.

Name (name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity.Role: Header.Requirement: optional.Data type: varchar.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Tables

Organization table

partID: organizations. The table that contains information about a laboratory. adapt from verson 1 documentation

Name (name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity.Role: Header.Requirement: recommended.Data type: varchar.

Description (descr). A detailed description of a measure, method, or attribute.Role: Header.Requirement: optional.Data type: varchar.

Organization Type (orgType). Specifies the type or purpose of a given organization.Role: Header.Requirement: recommended.Data type: categorical.Measure, method or attribute set: orgTypeSet

Organization level (orgLevel). The geographic level of an organization.Role: Header.Requirement: recommended.Data type: categorical.Measure, method or attribute set: orgLevelSet

Organization sector (orgSector). The sector of an organizationRole: Header.Requirement: recommended.Data type: categorical.Measure, method or attribute set: orgSectorSet

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Parts Look-up table

partID: parts. Look up table containing all parts in of the data model. Contains all parts, including self-referential parts.

Table list

Label (label). A human readable label of a part.Role: Header.Requirement: mandatory.Data type: varchar.

Part types (partType). Part types describe the purpose or use of the part.Role: Header.Requirement: mandatory.Data type: categorical.

Short names (shortName). Shortened names for tables and other important parts for use in wide names.Role: Header.Requirement: optional.Data type: varchar.

Part description (partDesc). The description of the part.Role: Header.Requirement: mandatory.Data type: varchar.

Part instruction (partInstr). Additional notes and instructions on how a part is used and/or defined.Role: Header.Requirement: optional.Data type: varchar.

Domain (domain). Domain is the highest level of describing of a measure.Role: Header.Requirement: mandatory.Data type: categorical.

Group (group). Unique identifier for a group of measures. Mostly applicable for measures, methods, units, and aggregations.Role: Header.Requirement: mandatory.Data type: categorical.

Class (class). A unique identifier for a class, which is akin to a subgroup; it's a way of grouping parts within a given group. A group can have one or more classes to describe different parts of the class.Role: Header.Requirement: mandatory.Data type: categorical.

Nomenclature (nomenclature). A classification system to report the measure class. Only applicable to variants, mutations, and diseases.Role: Header.Requirement: optional.Data type: categorical.

Ontology reference (ontologyRef). Ontology reference for a part.Role: Header.Requirement: optional.Data type: varchar.

LaTeX expression (latExp). LaTeX expression used to generate formulas, symbols, etc. Mainly relevant for units.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Tables

Aggregation scale (aggregationScale). A scale used for an aggregation. Only applicable for measures and units.Role: Header.Requirement: optional.Data type: categorical.

Status (status). Whether the part is still active and can be used in the most current ODM version. Values are ‘active’ or ‘inactive’.Role: Header.Requirement: mandatory.Data type: varchar.

First released version (firstReleased). The version in which a part was first releasedRole: Header.Requirement: mandatory.Data type: varchar.

Last updated version (lastUpdated). The version in which the part was last updated.Role: Header.Requirement: mandatory.Data type: varchar.

Changes column (changes). A column for recording the changes from a previous version.Role: Header.Requirement: optional.Data type: varchar.

Protocol steps table (protocolSteps). The table for collecting metadata on individual steps in a protocol, methodological process, or assay.Role: Header.Requirement: optional.Data type: varchar.

Protocol Relationship table required headers (protocolRelationshipsRequired). Specifies the columns required in the Protocol Organization table.Role: Header.Requirement: optional.Data type: varchar.

Protocol steps table required headers (protocolStepsRequired). Specifies the columns required in a Protocol Steps table.Role: Header.Requirement: optional.Data type: varchar.

Protocol steps table column order (protocolStepsOrder). Specifies the order of the columns in a Protocol Steps table.Role: Header.Requirement: optional.Data type: integer.

Protocol relationships table (protocolRelationships). The table that contains the organizational information and details (such as order) about a

Table list

given protocol, recorded as a series of protocol steps (protocolSteps).Role: Header.Requirement: optional.Data type: varchar.

Protocol relationships table column order (protocolRelationshipsOrder). Specifies the order of the columns in the Protocol Organization table.Role: Header.Requirement: optional.Data type: integer.

Measure report table (measures). The table that contains information and details about a given measureRole: Header.Requirement: optional.Data type: varchar.

Measures table required headers (measuresRequired). Specifies the columns required in a Measures table.Role: Header.Requirement: optional.Data type: varchar.

Measures table column order (measuresOrder). Specifies the order of the columns in a Measures table.Role: Header.Requirement: optional.Data type: integer.

Measure set report table (measureSets). The table that identifies sets of measures.Role: Header.Requirement: optional.Data type: varchar.

Measure sets table column order (measureSetsOrder). Specifies the order of the columns in a Measure Sets table.Role: Header.Requirement: optional.Data type: integer.

Measure Set table required headers (measureSetsRequired). Specifies the columns required in a Measure Sets table.Role: Header.Requirement: optional.Data type: varchar.

Dataset table (datasets). A report table for capturing details about data's parental data set and data custodians. Supplying attribution for data collectors.Role: Header.Requirement: optional.Data type: varchar.

Dataset table required headers (datasetsRequired). Specifies the columns required in a Datasets table.Role: Header.Requirement: optional.Data type: varchar.

Tables

Datasets table column order (datasetsOrder). Specifies the order of the columns in a Datasets table.Role: Header.Requirement: optional.Data type: integer.

Sites table (sites). The table that contains information about a site; the location where an environmental sample was taken.Role: Header.Requirement: optional.Data type: varchar.

Sites table required headers (sitesRequired). Specifies the columns required in a Sites table.Role: Header.Requirement: optional.Data type: varchar.

Sites table column order (sitesOrder). Specifies the order of the columns in a Sites table.Role: Header.Requirement: optional.Data type: integer.

Sample report table (samples). The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site.Role: Header.Requirement: optional.Data type: varchar.

Sample table required headers (samplesRequired). Specifies the columns required in a Samples table.Role: Header.Requirement: optional.Data type: varchar.

Samples table column order (samplesOrder). Specifies the order of the columns in a Samples table.Role: Header.Requirement: optional.Data type: integer.

Address table (addresses). The table that contains information about addresses. Addresses can recorded for sites, organizations or contacts (individuals).Role: Header.Requirement: optional.Data type: varchar.

Address table required headers (addressesRequired). Specifies the columns required in a Addresses table.Role: Header.Requirement: optional.Data type: varchar.

Table list

Addresses table column order (addressesOrder). Specifies the order of the columns in the Addresses table.Role: Header.Requirement: optional.Data type: integer.

Contact table (contacts). The table that contains information about a contact; a person who is the contact of a site or laboratory.Role: Header.Requirement: optional.Data type: varchar.

Contact table required headers (contactsRequired). Specifies the columns required in a Contacts table.Role: Header.Requirement: optional.Data type: varchar.

Contacts table column order (contactsOrder). Specifies the order of the columns in a Contacts table.Role: Header.Requirement: optional.Data type: integer.

Organization table (organizations). The table that contains information about a laboratory.Role: Header.Requirement: optional.Data type: varchar.

Organziation table required headers (organizationsRequired). Specifies the columns required in a Organizations table.Role: Header.Requirement: optional.Data type: varchar.

Organizations table column order (organizationsOrder). Specifies the order of the columns in a Organizations table.Role: Header.Requirement: optional.Data type: integer.

Instrument table (instruments). The table that contains information about instruments.Role: Header.Requirement: optional.Data type: varchar.

Instrument table required headers (instrumentsRequired). Specifies the columns required in the Instruments table.Role: Header.Requirement: optional.Data type: varchar.

Tables

Instruments table column order (instrumentsOrder). Specifies the order of the columns in the Instruments table.Role: Header.Requirement: optional.Data type: integer.

Polygon table (polygons). The table that contains information about the geometry of a geographic area.Role: Header.Requirement: optional.Data type: varchar.

Polygon table required headers (polygonsRequired). Specifies the columns required in a Polygons table.Role: Header.Requirement: optional.Data type: varchar.

Polygons table column order (polygonsOrder). Specifies the order of the columns in a Polygons table.Role: Header.Requirement: optional.Data type: integer.

Language Look-up table (languages). Look up table for all languages, used to give structure to the translation table.Role: Header.Requirement: optional.Data type: varchar.

Language table required headers (languagesRequired). Required headers in the Languages table.Role: Header.Requirement: optional.Data type: varchar.

Language table column order (languagesOrder). Specifies the order of the columns in the Languages table.Role: Header.Requirement: optional.Data type: integer.

Translation look-up table (translations). Look up table for translations of the description, label, and instruction for all parts.Role: Header.Requirement: optional.Data type: varchar.

Parts Look-up table (parts). Look up table containing all parts in of the data model.Role: Header.Requirement: optional.Data type: varchar.

Translation table required headers (translationsRequired). Required headers in the Translations table.Role: Header.Requirement: optional.Data type: varchar.

Table list

Parts table column order (partsOrder). Order of headers in the Parts table.Role: Header.Requirement: optional.Data type: varchar.

Translation table column order (translationsOrder). Specifies the order of the columns in the Translation table.Role: Header.Requirement: optional.Data type: integer.

Parts table required headers (partsRequired). Required headers in the Parts table.Role: Header.Requirement: optional.Data type: varchar.

Sets look-up table (sets). Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together.Role: Header.Requirement: optional.Data type: varchar.

Sets table column order (setsOrder). Specifies the order of the columns in the Sets table.Role: Header.Requirement: optional.Data type: integer.

Sets table required headers (setsRequired). Required headers in the Sets table.Role: Header.Requirement: optional.Data type: varchar.

Quality reports table (qualityReports). The table for recording the various quality metrics and indicators for samples and measures.Role: Header.Requirement: optional.Data type: varchar.

Quality report table required headers (qualityReportsRequired). Specifies the columns required in the Quality Reports table.Role: Header.Requirement: optional.Data type: varchar.

Quality reports table column order (qualityReportsOrder). Specifies the order of the columns in the Quality Reports table.Role: Header.Requirement: optional.Data type: integer.

Sample relationships table (sampleRelationships). Table for recording the relationships between samples.Role: Header.Requirement: optional.Data type: varchar.

Tables

Sample relationships table required headers (sampleRelationshipsRequired). Specifies the columns required in a Sample Relationships table.Role: Header.Requirement: optional.Data type: varchar.

Sample relationships table column order (sampleRelationshipsOrder). Specifies the order of the columns in a Sample Relationships table.Role: Header.Requirement: optional.Data type: integer.

Protocols table (protocols). The table for protocols.Role: Header.Requirement: optional.Data type: varchar.

Protocols table required headers (protocolsRequired). Specifies the columns required in the Protocols table.Role: Header.Requirement: optional.Data type: varchar.

Protocols table column order (protocolsOrder). Specifies the order of the columns in the Protocols table.Role: Header.Requirement: optional.Data type: integer.

Countries look-up tables (countries). Look up table for the possible country inputs.Role: Header.Requirement: optional.Data type: varchar.

Countries table required headers (countriesRequired). Required headers in the countries table.Role: Header.Requirement: optional.Data type: varchar.

Countries table column order (countriesOrder). Specifies the order of the columns in the countries table.Role: Header.Requirement: optional.Data type: integer.

Zones look-up table (zones). Look up table for the possible sub-national region or zone inputs.Role: Header.Requirement: optional.Data type: varchar.

Zones table required headers (zonesRequired). Required headers in the zones table.Role: Header.Requirement: optional.Data type: varchar.

Table list

Zones table column order (zonesOrder). Specifies the order of the columns in the zones table.Role: Header.Requirement: optional.Data type: integer.

Wide name table (wideNames). The table for wide names.Role: Header.Requirement: optional.Data type: varchar.

Wide name table required (wideNamesRequired). Column for indicating which fields in the wide names table are mandatory.Role: Header.Requirement: optional.Data type: varchar.

Wide name table order (wideNamesOrder). Column for indicating the order of the fields in the wide names table.Role: Header.Requirement: optional.Data type: varchar.

Reference link (refLink). Link to the reference material for a part. May link to literature on a method, measure, etc.Role: Header.Requirement: optional.Data type: varchar.

Data types (dataTypes). The data type for a part.Role: Header.Requirement: mandatory.Data type: categorical.

Minimum value part support (minValue). The minimum value of part.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Maximum value part support (maxValue). The maximum value of a part.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Minimum length (minLength). The maximum value of measure.Role: Header.Requirement: mandatoryIf.Data type: integer.

Maximum length (maxLength). The maximum length of the value of a part or measure.Role: Header.Requirement: mandatoryIf.Data type: integer.

Tables

Polygon table

partID: polygons. The table that contains information about the geometry of a geographic area.

Name (name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity.Role: Header.Requirement: recommended.Data type: varchar.

Description (descr). A detailed description of a measure, method, or attribute.Role: Header.Requirement: optional.Data type: varchar.

Polygon Population (polyPop). An attribute of a polygon, which specifies the population of that polygon. A rough estimate of the number of human residents.Role: Header.Requirement: optional.Data type: integer.

Type of geography (geoType). Type of geography that is represented by the polygon.Role: Header.Requirement: mandatory.Data type: categorical.Measure, method or attribute set: geoTypeSet

European Petroleum Survey Group Coordinates (geoEPSG). The unique EPSG code specifying a given geospatial area.Role: Header.Requirement: mandatory.Data type: float.

Well-known text (geoWKT). Well-known text of the polygonRole: Header.Requirement: mandatory.Data type: varchar.

File location of polygon (fileLocation). The location of the file containing the geometry of the polygon.Role: Header.Requirement: optional.Data type: blob.

Reference link (refLink). Link to the reference material for a part. May link to literature on a method, measure, etc.Role: Header.Requirement: optional.Data type: varchar.

Table list

Organization ID (organizationID). A unique identifier for the organization to which the reporter is affiliated.Role: Header.Requirement: optional.Data type: varchar.

Contact ID (contactID). A unique identifier for a given contact person.Role: Header.Requirement: optional.Data type: varchar.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Protocol relationships table

partID: protocolRelationships. The table that contains the organizational information and details (such as order) about a given protocol, recorded as a series of protocol steps (protocolSteps). Protocols are a group of related protocol steps. For example a protocol step can describe a sample concentration, extraction, inhibition or a measurement. Protocols can include both methodID (a procedure) and measureIDs (a measure). An example of a method is centrifugation; where the centrifugation rotation speed is described as a measure.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Tables

Protocols table

partID: protocols. The table for protocols.

Name (name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity.Role: Header.Requirement: optional.Data type: varchar.

Summary (summ). Short description of the assay and how it is different from the other assay methods.Role: Header.Requirement: optional.Data type: varchar.

Reference link (refLink). Link to the reference material for a part. May link to literature on a method, measure, etc.Role: Header.Requirement: optional.Data type: varchar.

Protocol version (protocolVersion). Specifies the version of a method set.Role: Header.Requirement: optional.Data type: integer.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Protocol steps table

partID: protocolSteps. The table for collecting metadata on individual steps in a protocol, methodological process, or assay.

Summary (summ). Short description of the assay and how it is different from the other assay methods.Role: Header.Requirement: optional.Data type: varchar.

Protocol step version (stepVer). Specifies the version of a given protocol step.Role: Header.Requirement: optional.Data type: varchar.

Table list

Reference link (refLink). Link to the reference material for a part. May link to literature on a method, measure, etc.Role: Header.Requirement: optional.Data type: varchar.

Value (value). Value of a measure, observation or attribute.Role: Header.Requirement: mandatoryif.Data type: varchar.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Quality reports table

partID: qualityReports. The table for recording the various quality metrics and indicators for samples and measures.

Quality flag (qualityFlag). A field for reporting any quality concerns - of lack thereof - for a sample or measure.Role: Header.Requirement: mandatory.Data type: categorical.

Severity indicator (severity). An indicator of the severity or seriousness of a quality flag.Role: Header.Requirement: optional.Data type: categorical.Measure, method or attribute set: sevSet

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Tables

Sample relationships table

partID: sampleRelationships. Table for recording the relationships between samples. Samples can be pooled or split. The sample relationships table holds information on parent-child relationships between samples, and allow for tracking sample lineage for single and pooled samples.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Sample report table

partID: samples. The table that contains information about a sample. A sample is defined as a representative volume of wastewater (or other forms of water or liquid), air, or surface area taken from a site. Samples can be combined, split, stored and reused. The **Sample relationships** (sampleRelationships) is used to describe the relationships between samples.

Organization ID (organizationID). A unique identifier for the organization to which the reporter is affiliated.Role: Header.Requirement: optional.Data type: varchar.

Sample origin (origin). An attribute of a sample specifying the origin.Role: Header.Requirement: optional.Data type: categorical.

Sample collection type (collType). The type of collection.Role: Foreign Key.Requirement: mandatory.Data type: categorical.Measure, method or attribute set: collectSet

Table list

Collection period (collPer). Collection period. The time period over which the sample was collected, in hours. Alternatively, use collectionStart and collectionEnd.Role: Header.Requirement: mandatory.Data type: float.

Collection number (collNum). The number of subsamples that were combined to create the sample. Use NA for continuous, proportional or passive sampling.Role: Header.Requirement: mandatory.Data type: integer.

Pooled (pooled). Is this a pooled sample, and therefore composed of multiple child samples obtained at different sitesRole: Header.Requirement: optional.Data type: boolean.

Collection date time (collDT). For grab samples this is the date, time and timezone the sample was taken.Role: Header.Requirement: mandatory.Data type: datetime.

Collection date time start (collDTStart). For integrated time averaged samples this is the date, time and timezone the sample was started being taken.Role: Header.Requirement: optional.Data type: datetime.

Collection date time end (collDTEnd). For integrated time average samples this is the date, time and timezone the sample was finished being taken.Role: Header.Requirement: optional.Data type: datetime.

Date sample was sent (sentDate). Date that the sample was sent from the collection site to the lab.Role: Header.Requirement: optional.Data type: datetime.

Date sample received (recDate). The date the sample was received at the laboratory for analysis.Role: Header.Requirement: optional.Data type: datetime.

Reportable (reportable). Flag for whether a measure is reportable or not, based on confidence in the measure and methods applied.Role: Header.Requirement: optional.Data type: boolean.

Tables

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Collection period and number (collNumPer). Composite collection number.period.Role: Header.Requirement: optional.Data type: varchar.

Sets look-up table

partID: sets. Look up table for all sets, managing how categorical inputs for various methods and attributes are grouped together. This table manages many-to-many relationships and category recycling within the ODM.

Label (label). A human readable label of a part.Role: Header.Requirement: mandatory.Data type: varchar.

Enumeration for set values (enumeration). The numeric value that corresponds to a given value in a set, defined in the sets table.Role: Header.Requirement: mandatory.Data type: integer.

Status (status). Whether the part is still active and can be used in the most current ODM version. Values are ‘active’ or ‘inactive’.Role: Header.Requirement: mandatory.Data type: varchar.

First released version (firstReleased). The version in which a part was first releasedRole: Header.Requirement: mandatory.Data type: varchar.

Last updated version (lastUpdated). The version in which the part was last updated.Role: Header.Requirement: mandatory.Data type: varchar.

Table list

Changes column (changes). A column for recording the changes from a previous version.Role: Header.Requirement: optional.Data type: varchar.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Sites table

partID: sites. The table that contains information about a site; the location where an environmental sample was taken. The site of an environmental sample. Information in the site table does not regularly change. Consider using the MeasureReport table if the information changes often.

Sample shed (sampleShed). A geographic area, physical space, or structure. A sample is taken from a sampleshed for a representative measurement of a substance(s).Role: Header.Requirement: mandatory.Data type: categorical.Measure, method or attribute set: shedSet

Organization ID (organizationID). A unique identifier for the organization to which the reporter is affiliated.Role: Header.Requirement: optional.Data type: varchar.

Name (name). Name of a domain, specimen, group, class, attribute, unit, nomenclature or other entity.Role: Header.Requirement: recommended.Data type: varchar.

Description (descr). A detailed description of a measure, method, or attribute.Role: Header.Requirement: optional.Data type: varchar.

Primary reporting authority ID (repOrg1). The primary or most responsible authority for routine surveillance reports or findings, or where the site is located.Role: Header.Requirement: optional.Data type: varchar.

Tables

Secondary reporting authority ID (repOrg2). The secondary, additional or alternative authority for routine surveillance reports or findings, or where the site is located.Role: Header.Requirement: optional.Data type: varchar.

Health Region for a Site (healthRegion). A free-text variable for listing the health region for a given site.Role: Header.Requirement: optional.Data type: varchar.

Population Served (popServ). An attribute of a site, which specifies the population of/population served by a given site.Role: Header.Requirement: optional.Data type: categorical.

Latitude (geoLat). Geographical location, latitude in decimal coordinates, ie.: (45.424721)Role: Header.Requirement: mandatoryIf.Data type: float.

Longitude (geoLong). Geographical location, longitude in decimal coordinates, ie.: (-75.695000)Role: Header.Requirement: mandatoryIf.Data type: float.

European Petroleum Survey Group Coordinates (geoEPSG). The unique EPSG code specifying a given geospatial area.Role: Header.Requirement: mandatoryIf.Data type: float.

Last edited (lastEdited). The date the entry was last updated.Role: Header.Requirement: optional.Data type: datetime.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Translation look-up table

partID: translations. Look up table for translations of the description, label, and instruction for all parts. The default language if a translation

Table list

is not specified is English.

Label (label). A human readable label of a part.Role: Header.Requirement: mandatory.Data type: varchar.

Part description (partDesc). The description of the part.Role: Header.Requirement: mandatory.Data type: varchar.

Part instruction (partInstr). Additional notes and instructions on how a part is used and/or defined.Role: Header.Requirement: optional.Data type: varchar.

First released version (firstReleased). The version in which a part was first releasedRole: Header.Requirement: mandatory.Data type: varchar.

Last updated version (lastUpdated). The version in which the part was last updated.Role: Header.Requirement: mandatory.Data type: varchar.

Changes column (changes). A column for recording the changes from a previous version.Role: Header.Requirement: optional.Data type: varchar.

Notes (notes). A note used to describe details that are not captured in other attributesRole: Header.Requirement: optional.Data type: varchar.

Wide name table

partID: wideNames. The table for wide names.

Label (label). A human readable label of a part.Role: Header.Requirement: mandatory.Data type: varchar.

character length (charLength). The number of characters used for the wide names.Role: Header.Requirement: optional.Data type: varchar.

Tables

Description (descr). A detailed description of a measure, method, or attribute.Role: Header.Requirement: mandatory.Data type: varchar.

Wide name source (source). The database or table sourced for the wide name.Role: Header.Requirement: mandatory.Data type: varchar.

Measure identification (wide table) (wideMeasure). Unique identifier for a measure in a wide table only.¬",Ã†Role: Header.Requirement: mandatoryIf.Data type: varchar.

Specified protocol (wide table) (wideProtocol). Unique identifier for a protocol in a wide table only.¬",Ã†Role: Header.Requirement: mandatoryIf.Data type: varchar.

Specified attribute (wide table) (wideAttribute). Unique identifier for an attribute in a wide table only.¬",Ã†Role: Header.Requirement: mandatoryIf.Data type: varchar.

Wide name type (wideNameType). The type of wide name generated. Possible options are measure, protocol or attribute.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Report table name (wide table) (reportTableName). The report table that the wide name calls from.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Part type name (wide table) (partTypeName). The part type being used in a wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Compartment name (wide table) (compartmentName). The compartment referenced for the wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Specimen name (wide table) (specimenName). The specimen referenced for the wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Table list

Fraction name (wide table) (fractionName). The fraction analyzed referenced for the wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Measure name (wide table) (measureName). The measure referenced for the wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Method name (wide table) (methodName). The method referenced for the wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Unit name (wide table) (unitName). The unit referenced for the wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Aggregation name (wide table) (aggregationName). The aggregation referenced for the wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Index (index). Index number in case the measurement was taken multiple times.Role: Header.Requirement: optional.Data type: varchar.

Attribute name (wide table) (attributeName). The attribute referenced for the wide name.Role: Header.Requirement: mandatoryIf.Data type: varchar.

Zones look-up table

partID: zones. Look up table for the possible sub-national region or zone inputs.

English name of country sub-domains (zoneName). The english-language name for a given country sub-domain.Role: Header.Requirement: mandatory.Data type: varchar.

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