

CHAPTER 6 ACTIVITIES FOR OUTPUT-3

S6.3-1 UPDATED ITEMS OF THE DATABASE

Lenggakiki Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)1	Remarks
		Updated	Ongoing	Not yet	No data		
1. Distribution Facility information							
0101	Graphs Water distribution pipes	•	•	•	•	required	
	0101-1 Pipe ID	•	•	•	•	required	
	0101-2 Networks	•	•	•	•	required	
	0101-3 Systems	•	•	•	•	required	
	0101-4 Pipe material	•	•	•	•	required	
	0101-5 Pipe diameters	•	•	•	•	required	
	0101-6 Pipe length	•	•	•	•	required	
	0101-7 Pipe Depth	•	•	•	•	required	
	0101-8 Pipe Use	•	•	•	•	required	
	0101-9 Completion year	•	•	•	•	required	
	0101-10 Date of last maintenance	•	•	•	•	required	No records have been kept at all
	0101-11 Date of Replacement / Rehabilitation	•	•	•	•	required	No records have been kept at all
	0101-12 Date of Rapping	•	•	•	•	required	
	0101-13 Date of Leakage detection	•	•	•	•	required	
	0101-14 Pipe Notes	•	•	•	•	required	
0102	Graphs Shave valve (gate valve)	•	•	•	•	required	
	0102-1 Valve ID	•	•	•	•	required	
	0102-2 Networks	•	•	•	•	required	
	0102-3 Systems	•	•	•	•	required	
	0102-4 Valve material	•	•	•	•	required	
	0102-5 Valve size	•	•	•	•	required	
	0102-6 Depth	•	•	•	•	required	
	0102-7 Direction of turn	•	•	•	•	required	
	0102-8 Valve status	•	•	•	•	required	
	0102-9 Date of Installation	•	•	•	•	required	
	0102-10 Date of last maintenance	•	•	•	•	required	
	0102-11 Valve Notes	•	•	•	•	required	
	0102-12 Hydrant	•	•	•	•	required	
0103	Graphs Hydrant	•	•	•	•	required	
	0103-1 Hydrant ID	•	•	•	•	required	
	0103-2 Networks	•	•	•	•	required	
	0103-3 Systems	•	•	•	•	required	
	0103-4 Hydrant type	•	•	•	•	required	
	0103-5 Hydrant diameters	•	•	•	•	required	
	0103-6 Date of Installation	•	•	•	•	required	
	0103-7 Last maintenance Date	•	•	•	•	required	
	0103-8 Hydrant Notes	•	•	•	•	required	No records have been kept at all
	0103-9 Air valve	•	•	•	•	required	
	0103-10 Air Valve ID	•	•	•	•	required	
	0103-11 Networks	•	•	•	•	required	
	0103-12 Systems	•	•	•	•	required	
0104	Graphs Air valve	•	•	•	•	required	
	0104-1 Air Valve ID	•	•	•	•	required	
	0104-2 Networks	•	•	•	•	required	
	0104-3 Systems	•	•	•	•	required	
	0104-4 Air Valve size	•	•	•	•	required	
	0104-5 Date of Installation	•	•	•	•	required	
	0104-6 Last maintenance Date	•	•	•	•	required	No records have been kept at all
	0104-7 Air Valve Notes	•	•	•	•	required	
	Graphs Water pipe bridge	•	•	•	•	required	
	0105-1 ID	•	•	•	•	required	
	0105-2 Length	•	•	•	•	required	
	0105-3 Pipe material	•	•	•	•	required	
	0105-4 Last maintenance Date	•	•	•	•	required	No Water pipe bridge
0105	0105-5 Bridge Name	•	•	•	•	required	No Water pipe bridge
	0105-6 Bridge material	•	•	•	•	required	No Water pipe bridge
	Graphs Sewer Manholes	•	•	•	•	required	
	0106-1 Sequential number	•	•	•	•	required	No Sewer Manholes
	0106-2 Distribution System number	•	•	•	•	required	No Sewer Manholes
	0106-3 Distribution System name	•	•	•	•	required	No Sewer Manholes
	0106-4 Distribution System location	•	•	•	•	required	No Sewer Manholes
	0106-5 Distribution System code	•	•	•	•	required	No Sewer Manholes
	0106-6 SSYSAC	•	•	•	•	required	No Sewer Manholes
	0106-7 SSYSINENO	•	•	•	•	required	No Sewer Manholes
	0106-8 SMH number	•	•	•	•	required	No Sewer Manholes
	0106-9 SMH type	•	•	•	•	required	No Sewer Manholes
	0106-10 SMH IL	•	•	•	•	required	No Sewer Manholes
0106	0106-11 SMH RL	•	•	•	•	required	No Sewer Manholes
	0106-12 SMH size	•	•	•	•	required	No Sewer Manholes
	0106-13 SMH date	•	•	•	•	required	No Sewer Manholes
	Graphs Sewer Pipelines	•	•	•	•	required	
	0107-1 Sequential number	•	•	•	•	required	No Sewer Pipelines
	0107-2 Distribution System number	•	•	•	•	required	No Sewer Pipelines
	0107-3 Distribution System name	•	•	•	•	required	No Sewer Pipelines
	0107-4 Distribution System location	•	•	•	•	required	No Sewer Pipelines
	0107-5 Distribution System code	•	•	•	•	required	No Sewer Pipelines
	0107-6 SSYSAC	•	•	•	•	required	No Sewer Pipelines
	0107-7 SSYSINENO	•	•	•	•	required	No Sewer Pipelines
	0107-8 SP_NO	•	•	•	•	required	No Sewer Pipelines
0107	0107-9 Sewer Pipe Length	•	•	•	•	required	No Sewer Pipelines
	0107-10 SP_SIL	•	•	•	•	required	No Sewer Pipelines
	0107-11 SP_FIL	•	•	•	•	required	No Sewer Pipelines

Lenggakiki Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)1	Remarks
		Updated	Ongoing	Not yet	No data		
1. Distribution Facility information							
0201	Graphs SP_A/C/V	•	•	•	•	required	No Sewer Pipelines
	0201-1 Sewer Pipe diameters	•	•	•	•	required	No Sewer Pipelines
	0201-2 SP_TYPE	•	•	•	•	required	No Sewer Pipelines
	0201-3 SP_MAKE	•	•	•	•	required	No Sewer Pipelines
	0201-4 SP_DATE	•	•	•	•	required	No Sewer Pipelines
	0201-5 SP_LOPE	•	•	•	•	required	No Sewer Pipelines
	0201-6 SP_CONNO	•	•	•	•	required	No Sewer Pipelines
	0201-7 SP_CONNEX	•	•	•	•	required	No Sewer Pipelines
	0201-8 SP_RNK	•	•	•	•	required	No Sewer Pipelines
	Graphs Leakage location	•	•	•	•	required	
	0201-1 ID	•	•	•	•	required	
	0201-2 Leakage Type	•	•	•	•	required	
	0201-3 Status of Leak	•	•	•	•	required	
0202	Graphs Location	•	•	•	•	required	
	0202-1 Condition	•	•	•	•	required	
	0202-2 Asset type	•	•	•	•	required	
	0202-3 Asset Size	•	•	•	•	required	
	0202-4 Asset Material	•	•	•	•	required	
	0202-5 Date of survey	•	•	•	•	required	
	Graphs Flow meters	•	•	•	•	required	
	0301-1 ID	•	•	•	•	required	
	0301-2 Networks	•	•	•	•	required	No Flow Meter Installed on site
	0301-3 Systems	•	•	•	•	required	No Flow Meter Installed on site
	0301-4 Location	•	•	•	•	required	No Flow Meter Installed on site
	0301-5 Size	•	•	•	•	required	No Flow Meter Installed on site
	0301-6 Date of Installation	•	•	•	•	required	No Flow Meter Installed on site
0302	0301-7 Last maintenance Date	•	•	•	•	required	No Flow Meter Installed on site
	0301-8 Logging	•	•	•	•	required	No Flow Meter Installed on site
	0301-9 Flow meter Notes	•	•	•	•	required	No Flow Meter Installed on site
	Graphs Feeder pipes (service pipes)	•	•	•	•	required	
	0302-1 PipeID	•	•	•	•	required	
	0302-2 Pipe material	•	•	•	•	required	
	0302-3 Pipe size	•	•	•	•	required	
	Graphs Water meter	•	•	•	•	required	
	0303-1 HouseID	•	•	•	•	required	
	0303-2 Customer's Name	•	•	•	•	required	
	0303-3 MeterID	•	•	•	•	required	
	0303-4 Status of Meter (whether working, buried etc)	•	•	•	•	required	
0303	0303-5 Manufacturer	•	•	•	•	required	
	0303-6 Size of Meter	•	•	•	•	required	
	0303-7 Date of Installation	•	•	•	•	required	
	0303-8 Lot Number	•	•	•	•	required	
	0303-9 Comments	•	•	•	•	required	
2. Water Source information							
0401	Graphs Bore holes	•	•	•	•	required	
	0401-1 Borehole ID	•	•	•	•	required	
	0401-2 Borehole Type	•	•	•	•	required	
	0401-3 Well depth(m)	•	•	•	•	required	
	0401-4 Head	•	•	•	•	required	No Borehole on Site
	0401-5 Head Max	•	•	•	•	required	No Borehole on Site
	0401-6 Pump ID	•	•	•	•	required	No Borehole on Site
	0401-7 Location	•	•	•	•	required	No Borehole on Site
	0401-8 Manufacture	•	•	•	•	required	No Borehole on Site
	0401-9 Serial No	•	•	•	•	required	No Borehole on Site
	0401-10 Flow Rate	•	•	•	•	required	No Borehole on Site
	0401-11 Static Water Level	•	•	•	•	required	No Borehole on Site
	0401-12 Dynamic Water Level	•	•	•	•	required	No Borehole on Site
0402	0401-13 Date of Pump Installed	•	•	•	•	required	No Borehole on Site
	0401-14 Date of last maintenance	•	•	•	•	required	No Borehole on Site
	0401-15 Age	•	•	•	•	required	No Borehole on Site
	0401-16 Status	•	•	•	•	required	No Borehole on Site
3. Pump Station information							
0402	Graphs Pump station	•	•	•	•	required	
	0402-1 Station ID	•	•	•	•	required	
	0402-2 Unit name	•	•	•	•	required	
	0402-3 Station type	•	•	•	•	required	
	0402-4 Location	•	•	•	•	required	
	0402-5 Age	•	•	•	•	required	
	0402-6 Status	•	•	•	•	required	
	0402-7 Power Usage (KWh)	•	•	•	•	required	
	0402-8 Number of pumps	•	•	•	•	required	
4. Service reservoir information							
0403	Graphs Service reservoir	•	•	•	•	required	
	0403-1 Service reservoir name	•	•	•	•	required	
	0403-2 Structure of service reservoirs	•	•	•	•	required	
	0403-3 Elevation of service reservoirs	•	•	•	•	required	
	0403-4 Capacity of service reservoir	•	•	•	•	required	
	0403-5 H.W.L. / L.W.L	•	•	•	•	required	
	0403-6 Date of last maintenance	•	•	•	•	required	
	Graphs Distribution area of source	•	•	•	•	required	
	0404-1 Area name	•	•	•	•	required	

Lenggakiki Input item of GIS

LUGBANKING							
No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks
		Updated	Ongoing	Not yet	No data		
6. Other informations							
0405	Graphs Water quality (Independent observation)	●				Daily / Monthly	
	0405-1 Water Quality Point No.	●				Daily / Monthly	
	0405-2 Location Name	●				Daily / Monthly	
	0405-3 Date of Survey	●				Daily / Monthly	
	0405-4 Source name	●				Daily / Monthly	
	0405-5 Source Type	●				Daily / Monthly	
	0405-6 Catchment condition	●				Daily / Monthly	
	0405-7 Catchment area (hectares)	●				Daily / Monthly	
	0405-8 Flow Rate (L/s)	●				Daily / Monthly	
	0405-9 Chlorine Demand (mg/10L)	●				Daily / Monthly	
	0405-10 Hardness (mg/L)	●				Daily / Monthly	
	0405-11 Turbidity (NTU)	●				Daily / Monthly	
8. Customer's information							
0501	0501-1 Customer ID	●				Daily	
	0501-2 Customer's name	●				Daily	
	0501-3 House ID	●				Daily	
	0501-4 Type Of Account	●				Daily	
	0501-5 Boundary of plot (land)	●				required	
0501-6 Customer's status	●				Daily		

Mbokonaveri Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
0101	0101-1 SP_AC/V				•	required	No Sewerage System on Site
	0101-13 Sewer Pipe diameters				•	required	No Sewerage System on Site
	0101-14 SP_TYPE				•	required	No Sewerage System on Site
	0101-15 SP_MAKE				•	required	No Sewerage System on Site
	0101-16 SP_DATE				•	required	No Sewerage System on Site
	0101-17 SP_SL/OFI				•	required	No Sewerage System on Site
	0101-18 SP_CONNO				•	required	No Sewerage System on Site
	0101-19 SP_CONNEX				•	required	No Sewerage System on Site
	0101-20 SP_LINK				•	required	No Sewerage System on Site
	Graphs: Leakage location	•					
0201	0201-1 ID	•				Daily	
	0201-2 Leakage Type	•				Daily	
	0201-3 Status of Leak	•				Daily	
	0201-4 Location	•				Daily	
	0201-5 Condition	•				Daily	
	0201-6 Asset type	•				required	
	0201-7 Asset Size	•				required	
	0201-8 Asset Material	•				required	
	0201-9 Date of survey	•					
	Graphs: Flow meters	•				required	
0301	0301-1 ID			•		required	
	0301-2 Networks				•	required	No Flow meter installed on site
	0301-3 Systems				•	required	No Flow meter installed on site
	0301-4 Location				•	required	No Flow meter installed on site
	0301-5 Size	•				required	
	0301-6 Date of Installation	•				required	No Flow meter installed on site
	0301-7 Last maintenance Date	•				required	No Flow meter installed on site
	0301-8 Logging	•				required	No Flow meter installed on site
	0301-9 Flow meter Notes	•				required	No Flow meter installed on site
	Graphs: Feeder pipes (service pipes)	•				required	
0302	0302-1 PipeID			•		required	
	0302-2 Pipe material				•	required	
	0302-3 Pipe size					required	
	Graphs: Water meter	•				Daily	
	0303-1 HouseID					Daily	
	0303-2 Customer's Name					Daily	
	0303-3 MeterID					Daily	
	0303-4 Status of Meter (whether working, buried etc)	•					
	0303-5 Manufacturer	•					
	0303-6 Size of Meter	•					
0303	0303-7 Date of Installation				•	required	
	0303-8 Lot Number	•					
	0303-9 Comments	•					
	2. Water Source information						
	Graphs: Bore holes	•				required	
	0401-1 Borehole ID				•	required	No Borehole on site
	0401-2 Borehole Type				•	-	No Borehole on site
	0401-3 Well depth(m)				•	required	
	0401-4 Head				•	-	No Borehole on site
	0401-5 Head Max				•	-	No Borehole on site
	0401-6 Pump ID				•	required	No Borehole on site
	0401-7 Location				•	required	No Borehole on site
	0401-8 Manufacturer				•	-	No Borehole on site
0401	0401-9 Serial No				•	-	No Borehole on site
	0401-10 Flow Rate				•	required	No Borehole on site
	0401-11 Static Water Level				•	required	No Borehole on site
	0401-12 Dynamic Water Level				•	required	No Borehole on site
	0401-13 Date of Pump Installed				•	required	No Borehole on site
	0401-14 Date of last maintenance				•	required	No Borehole on site
	0401-15 Age				•	required	No Borehole on site
	0401-16 Status				•	required	No Borehole on site
	3. Pump Station information						
	Graphs: Pump station	•				required	
0402	0402-1 Station ID				•	required	
	0402-2 Unit name				•	required	
	0402-3 Station type				•	required	
	0402-4 Location				•	required	
	0402-5 Age				•	required	
	0402-6 Status				•	required	
	0402-7 Power Usage (KWh)				•	required	
	0402-8 Number of pump				•	required	
	4. Service reservoir information						
	Graphs: Service reservoir	•				required	
0403	0403-1 Service reservoir name				•	-	
	0403-2 Structure of service reservoir				•	-	
	0403-3 Elevation of service reservoir				•	required	
	0403-4 Capacity of service reservoir				•	required	
	0403-5 H.W.L., L.W.L.				•	required	
	0403-6 Date of last maintenance				•	required	
	5. Distribution area of source						
	0404-1 Area name				•	required	

Mbokonaveri Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
0405	6. Other informations						
	Graphs: Water quality (Free-point observation)				•	Daily / Monthly	
	0405-1 Water Quality Point No				•	Daily / Monthly	
	0405-2 Location Name				•	Daily / Monthly	
	0405-3 Date of Survey				•	Daily / Monthly	
	0405-4 Source name				•	Daily / Monthly	
	0405-5 Source Type				•	Daily / Monthly	
	0405-6 Catchment condition				•	Daily / Monthly	
	0405-7 Catchment area (hectares)				•	Daily / Monthly	
	0405-8 Flow Rate (L/s)				•	Daily / Monthly	
0405	0405-9 Chlorine Demand (mg/10L)				•	Daily / Monthly	
	0405-10 Hardness (mg/L)				•	Daily / Monthly	
	0405-11 Turbidity (NTU/L)				•	Daily / Monthly	
	5. Customer's information						
	0405-1 Customer ID				•	Daily	
	0405-2 Customer's name				•	Daily	
	0405-3 House ID				•	Daily	
	0405-4 Type of Account				•	Daily	
	0405-5 Boundary of plot (load)				•	required	
	0405-6 Customer's status				•	Daily	

*1: The term of "Required" indicates the irregular update work.

For example, such as "updating, if ten information sheets accumulate".

Since it is an ambiguous no definition, SW and ITC's expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

WR_Namorka Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
0101	1. Distribution Facility information						
	Graphs: Water distribution pipes	•				required	
	0101-1 Pipe ID				•	required	
	0101-2 Networks	•				required	
	0101-3 Systems	•				required	
	0101-4 Pipe material	•				required	
	0101-5 Pipe diameters	•				required	
	0101-6 Pipe length	•				required	
	0101-7 Pipe Depth	•			•	required	
	0101-8 Pipe Use	•				required	
0102	0101-9 Completion year		•			required	
	0101-10 Date of last maintenance				•	required	
	0101-11 Date of Replacement / Rehabilitation				•	required	No records have been kept at all
	0101-12 Date of Requiring				•	required	No records have been kept at all
	0101-13 Date of Leakage detection				•	required	
	0101-14 Pipe Notes	•					
	Graphs: Shave valve (gate valve)	•				required	
	0102-1 Valve ID				•	required	
	0102-2 Networks	•				required	
	0102-3 Systems	•				required	
0103	0102-4 Valve material	•				required	
	0102-5 Valve size	•				required	
	0102-6 Depth				•	required	
	0102-7 Direction of turn	•				required	
	0102-8 Valve status	•				required	
	0102-9 Date of Installation	•				required	
	0102-10 Date of last maintenance	•				required	
	0102-11 Valve Notes	•				required	
	Graphs: Hydrant	•				required	
	0103-1 Hydrant ID				•	required	
0104	0103-2 Networks	•				required	
	0103-3 Systems	•				required	
	0103-4 Hydrant type	•				required	
	0103-5 Hydrant diameters	•				required	
	0103-6 Date of Installation	•				required	
	0103-7 Last maintenance Date	•				required	No records have been kept at all
	0103-8 Hydrant Notes	•					
	Graphs: Air valve	•				required	
	0104-1 Air Valve ID				•	required	
	0104-2 Networks	•				required	
0105	0104-3 Systems	•				required	
	0104-4 Air Valve size	•				required	
	0104-5 Date of Installation	•				required	
	0104-6 Last maintenance Date	•				required	No records have been kept at all
	0104-7 Air Valve Notes	•				required	
	Graphs: Water pipe bridge	•				required	
	0105-1 ID				•	required	
	0105-2 Length	•				required	
	0105-3 Pipe material	•				required	
	0105-4 Last maintenance Date	•				required	
0106	0105-5 Bridge Name	•				-	
	0105-6 Bridge material	•				-	
	Graphs: Sewer Manholes	•				required	
	0106-1 Sequential number				•	required	
	0106-2 Distribution System number				•	required	
	0106-3 Distribution System name				•	required	
	0106-4 Distribution System location				•	required	
	0106-5 Distribution System code				•	required	
	0106-6 SSVSAC				•	required	
	0106-7 SSVSINENO				•	required	
0107	0106-8 SMH number				•	required	
	0106-9 SMH type				•	required	
	0106-10 SMH IL				•	required	
	0106-11 SMH RL				•	required	
	0106-12 SMH size				•	required	
	0106-13 SMH date				•	required	
	Graphs: Sewer Pipelines	•				required	
	0107-1 Sequential number				•	required	
	0107-2 Distribution System number				•	required	
	0107-3 Distribution System name				•	required	
0108	0107-4 Distribution System location				•	required	
	0107-5 Distribution System code				•	required	
	0107-6 SSVSAC				•	required	
	0107-7 SSVSINENO				•	required	
	0107-8 SP_NO				•	required	
	0107-9 Sewer Pipe Length				•	required	
	0107-10 SP_RL				•	required	
	0107-11 SP_RL				•	required	

WR_Namorka Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
0101	0101-1 SP_AC/V				●	required	
	0101-13 Sewer Pipe diameters				●	required	
	0101-14 SP_TYPE				●	required	
	0101-15 SP_MAKE				●	required	
	0101-16 SP_DATE				●	required	
	0101-17 SP_SLOPE				●	required	
	0101-18 SP_CONNO				●	required	
	0101-19 SP_CONNEX				●	required	
	0101-20 SP_LINK				●	required	
	Graphic: Leakage location	●				Daily	
0201	0201-1 ID	●				Daily	
	0201-2 Leakage Type	●				Daily	
	0201-3 Status of Leak	●				Daily	
	0201-4 Location	●				Daily	
	0201-5 Condition	●				Daily	
	0201-6 Asset type	●				required	
	0201-7 Asset Size	●				required	
	0201-8 Asset Material	●				required	
	0201-9 Date of survey	●				Daily	
	Graphic: Flow meters	●				required	
0301	0301-1 ID		●			required	
	0301-2 Networks			●	●	required	
	0301-3 Systems				●	required	
	0301-4 Location				●	required	
	0301-5 Size	●				required	
	0301-6 Date of Installation				●	required	
	0301-7 Last maintenance Date				●	required	
	0301-8 Logans				●	required	
	0301-9 Flow meter Notes				●	required	
	Graphic: Feeder pipes (service pipes)	●				required	
0401	0401-2 PipeID	●				required	
	0401-3 Pipe material	●				required	
	0401-4 Pipe size	●				required	
	Graphic: Water meter	●				Daily	
	0401-1 HeadID		●			Daily	
	0401-2 Customer's Name	●				Daily	
	0401-3 MeterID	●				Daily	
	0401-4 Status of Meter (whether working, burned etc)	●					
	0401-5 Manufacture	●					
	0401-6 Size of Meter	●					
0501	0501-7 Date of Installation	●				required	
	0501-8 Lot Number	●				required	
	0501-9 Comments	●				required	
	2. Water Source Information						
	Graphic: Bore hole	●				required	
	0401-1 Borehole ID				●	-	
	0401-2 Borehole Type				●	-	
	0401-3 Well depths	●				required	
	0401-4 Head				●	-	
	0401-5 Head Max				●	-	
0401-6 Pump ID				●	-		
0401-7 Location	●				required		
0401-8 Manufacture	●				-		
0401-9 Serial No.	●				-		
0401-10 Flow Rate	●				required		
0401-11 Static Water Level	●				required		
0401-12 Dynamic Water Level	●				required		
0401-13 Date of Pump Installati	●				required		
0401-14 Date of last maintenance	●				required		
0401-15 Age	●				required		
0401-16 Status	●				required		
3. Pump Station Information							
Graphic: Pump station	●				required		
0401-1 Station ID	●						
0401-2 Unit name	●				required		
0401-3 Station type	●				required		
0401-4 Location	●				required		
0401-5 Age	●				required		
0401-6 Status	●				required		
0401-7 Power Usage (KW/h)	●				required		
0401-8 Number of pump	●				required		
4. Service reservoir information							
Graphic: Service reservoir	●				required		
0401-1 Service reservoir name	●				-		
0401-2 Structure of service reservoirs	●				required		
0401-3 Elevation of service reservoirs	●				required		
0401-4 Capacity of service reservoir	●				required		
0401-5 H.W.L., L.W.L.	●				required		
0401-6 Date of last maintenance	●				required		
0404	Graphic: Distribution area of source	●			●	required	
	0404-1 Area name	●				required	

WR_Namoruka Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
6. Other informations							
0405	0405-1 Water quality (First-point observation)			●		Daily / Monthly	
	0405-2 Water Quality Point No			●		Daily / Monthly	
	0405-3 Location Name			●		Daily / Monthly	
	0405-4 Date of Survey			●		Daily / Monthly	
	0405-5 Source name			●		Daily / Monthly	
	0405-6 Source Type			●		Daily / Monthly	
	0405-7 Catchment condition			●		Daily / Monthly	
	0405-8 Catchment area(hectares)			●		Daily / Monthly	
	0405-9 Flow Rate (L/s)			●		Daily / Monthly	
	0405-10 Chlorine Demand (mg/10L)			●		Daily / Monthly	
	0405-11 Turbidity (mg/L)			●		Daily / Monthly	
5. Customer's information							
0501	0405-1 Customer ID			●		Daily	
	0405-2 Customer's name			●		Daily	
	0405-3 House ID			●		Daily	
	0405-4 Type of Account			●		Daily	
	0405-5 Boundary of plot (land)			●		required	
	0405-6 Customer's status			●		Daily	

*1: The term of "Required" indicates the irregular update work.

For example, such as "updating, if ten information sheets accumulate".

Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Independence_Valley Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
0101	1. Distribution Facility information						
	0101-1	Water distribution pipes	●			required	
	0101-1	Pipe ID	●			required	
	0101-2	Networks	●			required	
	0101-3	Systems	●			required	
	0101-4	Pipe material	●			required	
	0101-5	Pipe diameters	●			required	
	0101-6	Pipe length	●			required	
	0101-7	Pipe Depth	●			required	
	0101-8	Pipe Use	●			required	
	0101-9	Completion year	●			required	
0102	0102-10	Date of last maintenance	●			required	No records have been kept at all.
	0102-11	Date of Replacement / Rehabilitation	●			required	No records have been kept at all.
	0102-12	Date of Reporting	●			required	
	0102-13	Date of Leakage detection	●			required	
	0102-14	Pipe Notes	●			required	
	0102-15	Shave valve (gate valve)	●			required	
	0102-16	Valve ID	●			required	
	0102-17	Networks	●			required	
	0102-18	Systems	●			required	
	0102-19	Valve material	●			required	
	0102-20	Valve size	●			required	
0103	0103-21	Depth	●			required	
	0103-22	Direction of turn	●			required	
	0103-23	Valve status	●			required	
	0103-24	Date of Installation	●			required	
	0103-25	Date of last maintenance	●			required	
	0103-26	Valve Notes	●			required	
	0103-27	Hydrant	●			required	
	0103-28	Hydrant ID	●			required	
	0103-29	Networks	●			required	
	0103-30	Systems	●			required	
	0103-31	Hydrant type	●			required	
0104	0104-32	Hydrant diameters	●			required	
	0104-33	Date of Installation	●			required	
	0104-34	Last maintenance Date	●			required	No records have been kept at all.
	0104-35	Hydrant Notes	●			required	
	0104-36	Air valve	●			required	
	0104-37	Air Valve ID	●			required	
	0104-38	Networks	●			required	
	0104-39	Systems	●			required	
	0104-40	Air Valve size	●			required	
	0104-41	Date of Installation	●			required	
	0104-42	Last maintenance Date	●			required	No records have been kept at all.
0105	0105-43	Air Valve Notes	●			required	
	0105-44	Water pipe bridge	●			required	
	0105-45	ID	●			required	
	0105-46	Length	●			required	
	0105-47	Pipe material	●			required	
	0105-48	Last maintenance Date	●			required	
	0105-49	Bridge Name	●			required	
	0105-50	Bridge material	●			required	
	0105-51	Sewer Manholes	●			required	
	0105-52	Sequential number	●			required	
	0105-53	Distribution System number	●			required	
0106	0106-54	Distribution System name	●			required	
	0106-55	Distribution System location	●			required	
	0106-56	Distribution System code	●			required	
	0106-57	SSYSAC	●			required	
	0106-58	SSYSINENO	●			required	
	0106-59	SS.HI number	●			required	
	0106-60	SS.HI type	●			required	
	0106-61	SS.HI II	●			required	
	0106-62	SS.HI RL	●			required	
	0106-63	SS.HI size	●			required	
	0106-64	SS.HI date	●			required	
0107	0107-65	Sewer Pipelans	●			required	
	0107-66	Sequential number	●			required	
	0107-67	Distribution System number	●			required	
	0107-68	Distribution System name	●			required	
	0107-69	Distribution System location	●			required	
	0107-70	Distribution System code	●			required	
	0107-71	SSYSAC	●			required	
	0107-72	SSYSINENO	●			required	
	0107-73	SP_20	●			required	
	0107-74	Sewer Pipe Length	●			required	
	0107-75	SP_20L	●			required	
0107-76	SP_20L	●			required		

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For example, such as "updating, if ten information sheets accumulate".

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Independence_Valley Input item of GIS

Independence		Progress of Database				Frequency of update(*)	Remarks	
No.	GIS subject	Updated	Ongoing	Not yet	No data			
0101	0101-1 SP_ACV	●			●	required		
	0101-2 SP Size Pipe diameters	●			●	required		
	0101-3 SP_TYPE	●			●	required		
	0101-15 SP_MAKE	●			●	required		
	0101-16 SP_DATE	●			●	required		
	0101-7 SP_SLOPE	●			●	required		
	0101-18 SP_CONNO	●			●	required		
	0101-19 SP_CONSNC	●			●	required		
	0101-20 SP_LINK	●			●	required		
	0201	0201-1 Leakage location	●				Daily	
		0201-1 ID	●				Daily	
0201-2 Leakage Type		●				Daily		
0201-3 Status of Leak		●				Daily		
0201-4 Location		●				Daily		
0201-5 Condition		●				required		
0201-6 Asset type		●				required		
0201-7 Asset Size		●				required		
0201-8 Asset Material		●				required		
0201-9 Date of survey		●				Daily		
0301		0301-1 Flow meters	●				required	
	0301-1 ID	●				required		
	0301-2 Networks	●				required		
	0301-3 Systems	●				required		
	0301-4 Location	●				required		
	0301-5 Size	●				required		
	0301-6 Date of Installation	●				required		
	0301-7 Last maintenance Date	●				required		
	0301-8 Logging	●				required		
	0301-9 Flow meter Notes	●				required		
	0401	0401-1 Feeder pipes (service pipes)	●				required	
0401-2 PipeID		●				required		
0401-3 Pipe material		●				required		
0401-4 Pipe size		●				required		
0401-5 Water meter		●				Daily		
0401-6 HouseID		●				Daily		
0401-7 Customer's Name		●				Daily		
0401-8 MeterID		●				Daily		
0401-9 Status of Meter (whether working, buried etc)		●				required		
0401-10 Manufacturer		●				required		
0501		0501-6 Size of Meter	●				required	
	0501-7 Date of Installation	●				required		
	0501-8 Lot Number	●				required		
	0501-9 Comments	●				required		
	2. Water Source information							
	0401-1 Bore hole	●				required		
	0401-1 Borehole ID	-				-		
	0401-2 Borehole Type	●				-		
	0401-3 Well depth(m)	-				required		
	0401-4 Head	-				-		
	0401-5 Head Max	●				-		
0401-6 Pump ID	●				-			
0401-7 Location	●				required			
0401-8 Manufacturer	●				-			
0401-9 Serial No	●				-			
0401-10 Flow Rate	●				required			
0401-11 Static Water Level	●				required			
0401-12 Dynamic Water Level	●				required			
0401-13 Date of Pump Installed	●				required			
0401-14 Date of last maintenance	●				required			
0401-15 Age	●				required			
0401-16 Status	●				required			
3. Pump Station information								
0401-1 Pump station	●				required			
0401-2 Station ID	●				-			
0401-3 Unit name	●				required			
0401-3 Station type	●				required			
0401-4 Location	●				required			
0401-5 Age	●				required			
0401-6 Status	●				required			
0401-7 Power Usage (KWh)	●				required			
0401-8 Number of pumps	●				required			
4. Service reservoir information								
0401-1 Service reservoir	●				required			
0401-2 Service reservoir name	●				-			
0401-3 Structure of service reservoirs	●				required			
0401-3 Elevation of service reservoirs	●				required			
0401-4 Capacity of service reservoir	●				required			
0401-5 H.W.L., L.W.L.	●				required			
0401-6 Date of last maintenance	●				required			
0401-7 Distribution area of source	●				required			

Independence_Valley Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
6. Other informations							
0405	0405-1 Water quality (First-point observation)			●		Daily / Monthly	
	0405-2 Water Quality Point No.			●		Daily / Monthly	
	0405-3 Location Name			●		Daily / Monthly	
	0405-4 Date of Survey			●		Daily / Monthly	
	0405-5 Source name			●		Daily / Monthly	
	0405-6 Source Type			●		Daily / Monthly	
	0405-6 Catchment condition			●		Daily / Monthly	
	0405-7 Catchment area(hectares)			●		Daily / Monthly	
	0405-8 Flow Rate (L/s)			●		Daily / Monthly	
	0405-9 Chlorine Demand (mg/10L)			●		Daily / Monthly	
	0405-10 Turbidity (mg/L)			●		Daily / Monthly	
0405-11 Turbidity (NTU)			●		Daily / Monthly		
5. Customer's information							
0501	0405-1 Customer ID	●				Daily	
	0405-2 Customer's name	●				Daily	
	0405-3 House ID	●		●		Daily	
	0405-4 Type Of Account	●				Daily	
	0405-5 Boundary of plot (land)	●		●		required	
	0405-6 Customer's status	●				Daily	

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Tuvaruhu-1 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks
		Updated	Ongoing	Not yet	No data		
1. Distribution Facility information							
0101	Graphic Water distribution pipes	•				required	
	0101-1 Pipe ID	•				required	
	0101-2 Networks	•				required	
	0101-3 Systems	•				required	
	0101-4 Pipe material	•				required	
	0101-5 Pipe diameters	•				required	
	0101-6 Pipe length	•				required	
	0101-7 Pipe Depth	•				required	
	0101-8 Pipe Use	•				required	
	0101-9 Completion year	•	•			required	
	0101-10 Date of last maintenance	•				required	
	0101-11 Date of Replacement / Rehabilitation	•				required	No records have been kept at all
	0101-12 Date of Rapping	•				required	No records have been kept at all
	0101-13 Date of Leakage detection	•				required	
	0101-14 Pipe Notes	•				required	
0102	Graphic Shave valve (gate valve)	•				required	
	0102-1 Valve ID	•				required	
	0102-2 Networks	•				required	
	0102-3 Systems	•				required	
	0102-4 Valve material	•				required	
	0102-5 Valve size	•				required	
	0102-6 Depth	•				required	
	0102-7 Direction of turn	•				required	
	0102-8 Valve status	•				required	
	0102-9 Date of Installation	•				required	
	0102-10 Date of last maintenance	•				required	
	0102-11 Valve Notes	•				required	
	Graphic Hydrant	•				required	
	0103-1 Hydrant ID	•				required	
0103	0103-2 Networks	•				required	
	0103-3 Systems	•				required	
	0103-4 Hydrant type	•				required	
	0103-5 Hydrant diameters	•				required	
	0103-6 Date of Installation	•				required	
	0103-7 Last maintenance Date	•				required	
	0103-8 Hydrant Notes	•				required	No records have been kept at all
	Graphic Air valve	•				required	
	0104-1 Air Valve ID	•				required	
	0104-2 Networks	•				required	
	0104-3 Systems	•				required	
	0104-4 Air Valve size	•				required	
	0104-5 Date of Installation	•				required	
	0104-6 Last maintenance Date	•				required	No records have been kept at all
	0104-7 Air Valve Notes	•				required	
0105	Graphic Water pipe bridge	•				required	
	0105-1 ID	•				required	
	0105-2 Length	•				required	
	0105-3 Pipe material	•				required	
	0105-4 Last maintenance Date	•				required	
	0105-5 Bridge Name	•				required	
	0105-6 Bridge material	•				required	
	Graphic Sewer Manholes	•				required	
	0106-1 Sequential number	•				required	
	0106-2 Distribution System number	•				required	
	0106-3 Distribution System name	•				required	
	0106-4 Distribution System location	•				required	
	0106-5 Distribution System code	•				required	
	0106-6 SSVSAC	•				required	
0106	0106-7 SSVSLINENO	•				required	
	0106-8 SMH number	•				required	
	0106-9 SMH type	•				required	
	0106-10 SMH IL	•				required	
	0106-11 SMH RL	•				required	
	0106-12 SMH size	•				required	
	0106-13 SMH date	•				required	
	Graphic Sewer Pipelines	•				required	
	0107-1 Sequential number	•				required	
	0107-2 Distribution System number	•				required	
	0107-3 Distribution System name	•				required	
	0107-4 Distribution System location	•				required	
	0107-5 Distribution System code	•				required	
	0107-6 SSVSAC	•				required	
0107	0107-7 SSVSLINENO	•				required	
	0107-8 SP_NO	•				required	
	0107-9 Sewer Pipe Length	•				required	
	0107-10 SP_SIL	•				required	
	0107-11 SP_FIL	•				required	

Tuvaruhu-1 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks
		Updated	Ongoing	Not yet	No data		
1. Distribution Facility information							
0201	Graphic Water distribution pipes	•				required	
	0201-1 Pipe ID	•				required	
	0201-2 Networks	•				required	
	0201-3 Systems	•				required	
	0201-4 Pipe material	•				required	
	0201-5 Pipe diameters	•				required	
	0201-6 Pipe length	•				required	
	0201-7 Pipe Depth	•				required	
	0201-8 Pipe Use	•				required	
	0201-9 Completion year	•	•			required	
	0201-10 Date of last maintenance	•				required	
	0201-11 Date of Replacement / Rehabilitation	•				required	No records have been kept at all
	0201-12 Date of Rapping	•				required	No records have been kept at all
	0201-13 Date of Leakage detection	•				required	
	0201-14 Pipe Notes	•				required	
0202	Graphic Shave valve (gate valve)	•				required	
	0202-1 Valve ID	•				required	
	0202-2 Networks	•				required	
	0202-3 Systems	•				required	
	0202-4 Valve material	•				required	
	0202-5 Valve size	•				required	
	0202-6 Depth	•				required	
	0202-7 Direction of turn	•				required	
	0202-8 Valve status	•				required	
	0202-9 Date of Installation	•				required	
	0202-10 Date of last maintenance	•				required	
	0202-11 Valve Notes	•				required	
	Graphic Hydrant	•				required	
	0203-1 Hydrant ID	•				required	
0203	0203-2 Networks	•				required	
	0203-3 Systems	•				required	
	0203-4 Hydrant type	•				required	
	0203-5 Hydrant diameters	•				required	
	0203-6 Date of Installation	•				required	
	0203-7 Last maintenance Date	•				required	
	0203-8 Hydrant Notes	•				required	No records have been kept at all
	Graphic Air valve	•				required	
	0204-1 Air Valve ID	•				required	
	0204-2 Networks	•				required	
	0204-3 Systems	•				required	
	0204-4 Air Valve size	•				required	
	0204-5 Date of Installation	•				required	
	0204-6 Last maintenance Date	•				required	No records have been kept at all
	0204-7 Air Valve Notes	•				required	
0205	Graphic Water pipe bridge	•				required	
	0205-1 ID	•				required	
	0205-2 Length	•				required	
	0205-3 Pipe material	•				required	
	0205-4 Last maintenance Date	•				required	
	0205-5 Bridge Name	•				required	
	0205-6 Bridge material	•				required	
	Graphic Sewer Manholes	•				required	
	0206-1 Sequential number	•				required	
	0206-2 Distribution System number	•				required	
	0206-3 Distribution System name	•				required	
	0206-4 Distribution System location	•				required	
	0206-5 Distribution System code	•				required	
	0206-6 SSVSAC	•				required	
0206	0206-7 SSVSLINENO	•				required	
	0206-8 SMH number	•				required	
	0206-9 SMH type	•				required	
	0206-10 SMH IL	•				required	
	0206-11 SMH RL	•				required	
	0206-12 SMH size	•				required	
	0206-13 SMH date	•				required	
	Graphic Sewer Pipelines	•				required	
	0207-1 Sequential number	•				required	
	0207-2 Distribution System number	•				required	
	0207-3 Distribution System name	•				required	
	0207-4 Distribution System location	•				required	
	0207-5 Distribution System code	•				required	
	0207-6 SSVSAC	•				required	
0207	0207-7 SSVSLINENO	•				required	
	0207-8 SP_NO	•				required	
	0207-9 Sewer Pipe Length	•				required	
	0207-10 SP_SIL	•				required	
	0207-11 SP_FIL	•				required	

Tuvaruhu-1 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks
		Updated	Ongoing	Not yet	No data		
6. Other informations							
0405	Graphic Water quality (Investigator observation)	•				Daily / Monthly	
	0405-1 Water Quality Point No.	•				Daily / Monthly	
	0405-2 Location Name	•				Daily / Monthly	
	0405-3 Date of Survey	•				Daily / Monthly	
	0405-4 Source name	•				Daily / Monthly	
	0405-5 Source Type	•				Daily / Monthly	
	0405-6 Unimixed condition	•				Daily / Monthly	
	0405-7 Unimixed area (hectares)	•				Daily / Monthly	
	0405-8 Flow Rate (L/s)	•				Daily / Monthly	
	0405-9 Valence Demand (mg/l O.L)	•				Daily / Monthly	
	0405-10 BOD5 (mg/L)	•				Daily / Monthly	
	0405-11 Turbidity (NTU)	•				Daily / Monthly	
	Graphic Customer's information	•				Daily	
	0405-1 Customer ID	•				Daily	
0501	0405-2 Customer's name	•				Daily	
	0405-3 House ID	•				Daily	
	0405-4 Type Of Account	•				Daily	
	0405-5 Boundary of plot (land)	•				required	
	0405-6 Customer's status	•				Daily	

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Tuvaruhu-2 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks	
		Updated	Ongoing	Not yet	No data			
1. Distribution Facility information								
01.01	Graphic Water distribution pipes	•				required		
	0101-1 Pipe ID	•				required		
	0101-2 Networks	•				required		
	0101-3 Systems	•				required		
	0101-4 Pipe material	•				required		
	0101-5 Pipe diameters	•				required		
	0101-6 Pipe length	•				required		
	0101-7 Pipe Depth	•			•	required		
	0101-8 Pipe Use	•				required		
	0101-9 Completion year	•	•			required		
	0101-10 Date of last maintenance	•				required		
	0101-11 Date of Replacement / Rehabilitation	•				• required	No records have been kept at all	
	0101-12 Date of Repairing	•				• required	No records have been kept at all	
	0101-13 Date of Leakage detection	•			•	required		
01.02	0101-14 Pipe Notes	•				required		
	Graphic Shave valve (gate valve)	•				required		
	0102-1 Valve ID	•				required		
	0102-2 Networks	•				required		
	0102-3 Systems	•				required		
	0102-4 Valve material	•				required		
	0102-5 Valve size	•				required		
	0102-6 Depth	•		•		required		
	0102-7 Direction of turn	•				required		
	0102-8 Valve status	•				required		
	0102-9 Date of Installation	•				required		
	0102-10 Date of last maintenance	•				required		
	0102-11 Valve Notes	•				required		
	01.03	Graphic Hydrant	•				required	
0103-1 Hydrant ID		•		•		required		
0103-2 Networks		•				required		
0103-3 Systems		•				required		
0103-4 Hydrant type		•				required		
0103-5 Hydrant diameters		•				required		
0103-6 Date of Installation		•				required		
0103-7 Last maintenance Date		•			•	required	No records have been kept at all	
0103-8 Hydrant Notes		•				required		
Graphic Air valve		•				required		
0104-1 Air Valve ID		•		•		required		
0104-2 Networks		•				required		
0104-3 Systems		•				required		
0104-4 Air Valve size		•				required		
01.04	0104-5 Date of Installation	•				• required		
	0104-6 Last maintenance Date	•				• required	No records have been kept at all	
	0104-7 Air Valve Notes	•				required		
	Graphic Water pipe bridge	•				required		
	0105-1 ID	•				required		
	0105-2 Length	•				required		
	0105-3 Pipe material	•				required		
	0105-4 Last maintenance Date	•				required		
	0105-5 Bridge Name	•				•	-	
	0105-6 Bridge material	•				required		
	01.06	Graphic Sewer Manholes	•		•		required	
		0106-1 Sequential number	•				required	
		0106-2 Distribution System number	•				required	
		0106-3 Distribution System name	•				required	
0106-4 Distribution System location		•				required		
0106-5 Distribution System code		•				required		
0106-6 SSYSAC		•				required		
0106-7 SSYSLSENO		•				required		
0106-8 SSM number		•				required		
0106-9 SSM type		•				required		
0106-10 SSM_IL		•				required		
0106-11 SSM_RL		•				required		
0106-12 SSM_Late		•				required		
0106-13 SSM_date		•				required		
01.07	Graphic Sewer Pipelines	•		•		required		
	0107-1 Sequential number	•				required		
	0107-2 Distribution System number	•				required		
	0107-3 Distribution System name	•				required		
	0107-4 Distribution System location	•				required		
	0107-5 Distribution System code	•				required		
	0107-6 SSYSAC	•				required		
	0107-7 SSYSLSENO	•				required		
	0107-8 SP_ND	•				required		
	0107-9 Sewer Pipe Length	•				required		
	0107-10 SP_SIL	•				required		
	0107-11 SP_RIL	•				required		

Tuvuruhu-2 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
0101	0101-1 SP_AC/V			●		required	
	0101-13 Sewer Pipe diameters			●		required	
	0101-14 SP_TYPE			●		required	
	0101-15 SP_MAKE			●		required	
	0101-16 SP_DATE			●		required	
	0101-17 SP_SL/OF			●		required	
	0101-18 SP_CONNO			●		required	
	0101-19 SP_CONNEC			●		required	
	0101-20 SP_LINK			●		required	
	Graphs: Leakage location	●				Daily	
0201	0201-1 ID			●		Daily	
	0201-2 Leakage Type			●		Daily	
	0201-3 Status of Leak			●		Daily	
	0201-4 Location			●		Daily	
	0201-5 Condition			●		Daily	
	0201-6 Asset type			●		required	
	0201-7 Asset Size			●		required	
	0201-8 Asset Material			●		required	
	0201-9 Date of survey			●		required	
	Graphs: Flow meters	●				required	
0301	0301-1 ID			●		required	
	0301-2 Networks			●		required	
	0301-3 Systems			●		required	
	0301-4 Location			●		required	
	0301-5 Size			●		required	
	0301-6 Date of Installation			●		required	
	0301-7 Last maintenance Date			●		required	
	0301-8 Logging			●		required	
	0301-9 Flow meter Notes			●		required	
	Graphs: Feeder pipes (service pipes)	●				required	
0302	0302-1 PipeID			●		required	
	0302-2 Pipe material			●		required	
	0302-3 Pipe size			●		required	
0303	Graphs: Water meter	●				Daily	
	0303-1 HouseID			●		Daily	
	0303-2 Customer's Name			●		Daily	
	0303-3 MeterID			●		Daily	
	0303-4 Status of Meter (whether working, buried etc)			●			
	0303-5 Manufacturer			●			
	0303-6 Size of Meter			●			
	0303-7 Date of Installation			●			
	0303-8 Lot Number			●			
	0303-9 Comments			●			
2. Water Source information							
0401	Graphs: Bore hole			●		required	
	0401-1 Borehole ID			●		-	
	0401-2 Borehole Type			●		-	
	0401-3 Well depth(m)			●		required	
	0401-4 Head			●		-	
	0401-5 Head Max			●		-	
	0401-6 Pump ID			●		-	
	0401-7 Location			●		required	
	0401-8 Manufacturer			●		-	
	0401-9 Serial No			●		-	
0402	0402-10 Flow Rate			●		required	
	0402-11 Static Water Level			●		required	
	0402-12 Dynamic Water Level			●		required	
	0402-13 Date of Pump Installed			●		required	
	0402-14 Date of last maintenance			●		required	
	0402-15 Age			●		required	
	0402-16 Status			●		required	
3. Pump Station information							
0402	Graphs: Pump station	●				required	
	0402-1 Station ID			●		-	
	0402-2 Unit name			●		required	
	0402-3 Station type			●		required	
	0402-4 Location			●		required	
	0402-5 Age			●		required	
	0402-6 Status			●		required	
	0402-7 Power Usage (KWh)			●		required	
	0402-8 Number of pump			●		required	
	0402-9 Comments			●			
4. Service reservoir information							
0403	Graphs: Service reservoir			●		required	
	0403-1 Service reservoir name			●		-	
	0403-2 Structure of service reservoir			●		-	
	0403-3 Elevation of service reservoir			●		required	
	0403-4 Capacity of service reservoir			●		required	
	0403-5 H.W.L., L.W.L.			●		required	
	0403-6 Date of last maintenance			●		required	
	Graphs: Distribution area of source			●		required	
	0403-7 Area name			●		required	
	0403-8			●			

Vavaea_Ridge Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks	
		Updated	Ongoing	Not yet	No data			
0101	1. Distribution Facility information							
	Graphs: Water distribution pipes	●				required		
	0101-1 Pipe ID			●		required		
	0101-2 Networks			●		required		
	0101-3 Systems			●		required		
	0101-4 Pipe material			●		required		
	0101-5 Pipe diameters			●		required		
	0101-6 Pipe length			●		required		
	0101-7 Pipe Depth			●		required		
	0101-8 Pipe Use			●		required		
	0101-9 Completion year			●		required		
	0101-10 Date of last maintenance			●		required		
	0101-11 Date of Replacement / Rehabilitation			●		required	No records have been kept at all	
	0101-12 Date of Requiring			●		required	No records have been kept at all	
0102	0102-13 Date of Leakage detection			●		required		
	0102-14 Pipe Notes			●				
	Graphs: Shave valve (gate valve)			●		required		
	0102-15 Valve ID			●		required		
	0102-16 Networks			●		required		
	0102-17 Systems			●		required		
	0102-18 Valve material			●		required		
	0102-19 Valve size			●		required		
	0102-20 Depth			●		required		
	0102-21 Direction of turn			●		required		
	0102-22 Valve status			●		required		
	0102-23 Date of Installation			●		required		
	0102-24 Date of last maintenance			●		required		
	0102-25 Valve Notes			●		required		
0103	Graphs: Hydrant			●		required		
	0103-1 Hydrant ID			●		required		
	0103-2 Networks			●		required		
	0103-3 Systems			●		required		
	0103-4 Hydrant type			●		required		
	0103-5 Hydrant diameters			●		required		
	0103-6 Date of Installation			●		required		
	0103-7 Last maintenance Date			●		required	No records have been kept at all	
	0103-8 Hydrant Notes			●				
	Graphs: Air valve			●		required		
	0104-1 Air Valve ID			●		required		
	0104-2 Networks			●		required		
	0104-3 Systems			●		required		
	0104	0104-4 Air Valve size			●		required	
0104-5 Date of Installation				●		required		
0104-6 Last maintenance Date				●		required	No records have been kept at all	
0104-7 Air Valve Notes				●		required		
Graphs: Water pipe bridge				●		required		
0105-1 ID				●		required		
0105-2 Length				●		required		
0105-3 Pipe material				●		required		
0105-4 Last maintenance Date				●		required		
0105-5 Bridge Name				●				
0105-6 Bridge material				●		-		
0105		Graphs: Sewer Manholes			●		required	
		0106-1 Sequential number			●		required	
		0106-2 Distribution System number			●		required	
	0106-3 Distribution System name			●		required		
	0106-4 Distribution System location			●		required		
	0106-5 Distribution System code			●		required		
	0106-6 SSYSAC			●		required		
	0106-7 SSYSINENO			●		required		
	0106-8 S.M.H. number			●		required		
	0106-9 S.M.H. type			●		required		
	0106-10 S.M.H. IL			●		required		
	0106-11 S.M.H. RL			●		required		
	0106-12 S.M.H. size			●		required		
	0106-13 S.M.H. date			●		required		
0106	Graphs: Sewer Pipelines			●		required		
	0107-1 Sequential number			●		required		
	0107-2 Distribution System number			●		required		
	0107-3 Distribution System name			●		required		
	0107-4 Distribution System location			●		required		
	0107-5 Distribution System code			●		required		
	0107-6 SSYSAC			●		required		
	0107-7 SSYSINENO			●		required		
	0107-8 SP_NO			●		required		
	0107-9 Sewer Pipe Length			●		required		
	0107-10 SP_RL			●		required		
	0107-11 SP_IL			●		required		

Tuvuruhu-2 Input item of GIS

No.	GIS subject	Progress of Database			Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet		
0405	6. Other informations					
	Graphs: Water quality (Fixed-point observation)			●		Daily / Monthly
	0405-1 Water Quality Point No.				●	Daily / Monthly
	0405-2 Location Name				●	Daily / Monthly
	0405-3 Date of Survey				●	Daily / Monthly
	0405-4 Source name				●	Daily / Monthly
	0405-5 Source Type				●	Daily / Monthly
	0405-6 Catchment condition				●	Daily / Monthly
	0405-7 Catchment area (hectares)				●	Daily / Monthly
	0405-8 Flow Rate (L/s)				●	Daily / Monthly
	0405-9 Chlorine Demand (mg/10L)				●	Daily / Monthly
0406	0406-10 Hardness (mg/L)				●	Daily / Monthly
	0406-11 Turbidity (NTU)				●	Daily / Monthly
	5. Customer's information					
	0406-1 Customer ID			●		Daily
	0406-2 Customer's name			●		Daily
	0406-3 House ID				●	Daily
	0406-4 Type of Account				●	Daily
	0406-5 Boundary of plot (road)				●	required
	0406-6 Customer's status				●	Daily
	*1: The term of "Required" indicates the irregular update work. For example, such as "updating, if ten information sheets accumulate". Since it is an ambiguous definition, SV and ITC's expert team will discuss and decide clearly from now on. And it will indicate by an operation manual.					

Vavaca Ridge Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update*(1)	Remarks
		Updated	Ongoing	Not yet	No data		
0405	6. Other informations						
	0405-1	Water quality (First-point observation)			●	Daily / Monthly	
	0405-2	Water Quality Point No.			●	Daily / Monthly	
	0405-3	Location Name			●	Daily / Monthly	
	0405-4	Date of Survey			●	Daily / Monthly	
	0405-5	Source name			●	Daily / Monthly	
	0405-6	Source Type			●	Daily / Monthly	
	0405-7	Catchment condition			●	Daily / Monthly	
	0405-8	Catchment area(hectares)			●	Daily / Monthly	
	0405-9	Flow Rate (L/s)			●	Daily / Monthly	
	0405-10	Chlorine Demand (mg/10L)			●	Daily / Monthly	
0501	0405-11	Turbidity (mg/L)			●	Daily / Monthly	
	0405-12	Turbidity (NTU)			●	Daily / Monthly	
	5. Customer's information						
	0405-1	Customer ID			●	Daily	
	0405-2	Customer's name			●	Daily	
0501	0405-3	House ID			●	Daily	
	0405-4	Type of Account			●	Daily	
	0405-5	Boundary of plot (land)			●	required	
	0405-6	Customer's status			●	Daily	

*1: The term of "Required" indicates the irregular update work.

For example, such as "updating, if ten information sheets accumulate".

Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Mbokona Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*) 1)	Remarks
		Updated	Ongoing	Not yet	No data		
1. Distribution Facility information							
0101	0101-1 Water distribution pipes	●				required	
	0101-2 Pipe ID	●				required	
	0101-3 Networks	●				required	
	0101-4 Systems	●				required	
	0101-5 Pipe material	●				required	
	0101-6 Pipe diameters	●				required	
	0101-7 Pipe length	●				required	
	0101-8 Pipe Depth	●				required	
	0101-9 Pipe Use	●				required	
	0101-10 Completion year		●			required	
	0101-11 Date of last maintenance			●		required	No records have been kept at all.
0102	0102-1 Date of Replacement / Rehabilitation			●		required	No records have been kept at all.
	0102-2 Date of Repairing			●		required	
	0102-3 Date of Leakage detection			●		required	
	0102-4 Pipe Notes	●				required	
	0102-5 Shave valve (gate valve)	●				required	
	0102-6 Valve ID	●				required	
	0102-7 Networks	●				required	
	0102-8 Systems	●				required	
	0102-9 Valve material	●				required	
	0102-10 Valve size	●				required	
	0102-11 Depth	●		●		required	
0103	0103-1 Direction of turn	●				required	
	0103-2 Valve status	●				required	
	0103-3 Date of Installation	●				required	
	0103-4 Date of last maintenance	●				required	
	0103-5 Valve Notes	●				required	
	0103-6 Hydrant	●				required	
	0103-7 Hydrant ID	●		●		required	
	0103-8 Networks	●				required	
	0103-9 Systems	●				required	
	0103-10 Hydrant type	●				required	
	0103-11 Hydrant diameters	●				required	
0104	0104-1 Date of Installation	●				required	
	0104-2 Last maintenance Date	●				required	No records have been kept at all.
	0104-3 Air Valve	●				required	
	0104-4 Air Valve ID	●		●		required	
	0104-5 Networks	●				required	
	0104-6 Systems	●				required	
	0104-7 Air Valve size	●				required	
	0104-8 Date of Installation	●				required	
	0104-9 Last maintenance Date	●				required	
	0104-10 Air Valve Notes	●				required	
	0105	0105-1 Water pipe bridge	●				required
0105-2 ID		●				required	
0105-3 Length		●				required	
0105-4 Pipe material		●				required	
0105-5 Last maintenance Date		●				required	
0105-6 Bridge Name		●				-	
0105-7 Bridge material		●				-	
0105-8 Sewer Manholes		●				required	
0105-9 Sequential number		●				required	
0105-10 Distribution System number		●				required	
0105-11 Distribution System name		●				required	
0106	0106-1 Distribution System location	●				required	
	0106-2 Distribution System code	●				required	
	0106-3 SSYSAC	●				required	
	0106-4 SSYSINENO	●				required	
	0106-5 SS.HI number	●				required	
	0106-6 SS.HI type	●				required	
	0106-7 SS.HI II	●				required	
	0106-8 SS.HI RL	●				required	
	0106-9 SS.HI size	●				required	
	0106-10 SS.HI date	●				required	
	0107	0107-1 Sewer Pipelines	●				required
0107-2 Sequential number		●				required	
0107-3 Distribution System number		●				required	
0107-4 Distribution System name		●				required	
0107-5 Distribution System location		●				required	
0107-6 SSYSAC		●				required	
0107-7 SSYSINENO		●				required	
0107-8 SP_NO		●				required	
0107-9 Sewer Pipe Length		●				required	
0107-10 SP_20L		●				required	
0107-11 SP_20L		●				required	

*1: The term of "Required" indicates the irregular update work.

For example, such as "updating, if ten information sheets accumulate".

Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Mbokona Input item of GIS

No.		GIS subject	Progress of Database			Frequency of update(*)1)	Remarks	
			Updated	Ongoing	Not yet	No data		
	0101-1	SP_ACV	●			●	required	
	0101-2	Service Pipe diameters	●			●	required	
	0101-4	SP_TYPE	●			●	required	
	0101-15	SP_MAKE	●			●	required	
	0101-16	SP_DATE	●			●	required	
	0101-17	SP_SLOPE	●			●	required	
	0101-18	SP_CONNO	●			●	required	
	0101-19	SP_CONSNC	●			●	required	
	0101-20	SP_LINK	●			●	required	
	0200	0200-1	Graphic Leakage location	●				Daily
		0201-1	ID	●				Daily
0201-2		Leakage Type	●				Daily	
0201-3		Status of Leak	●				Daily	
0201-4		Location	●				Daily	
0201-5		Condition	●				Daily	
0201-6		Asset type				●	required	
0201-7		Asset Size				●	required	
0201-8		Asset Material				●	required	
0201-9		Date of survey	●				Daily	
0300		0300-1	Graphic Flow meters	●				required
	0301-1	ID	●			●	required	
	0301-2	Networks	●			●	required	
	0301-3	Systems	●			●	required	
	0301-4	Location	●			●	required	
	0301-5	Status	●			●	required	
	0301-6	Date of Installation	●			●	required	
	0301-7	Last maintenance Date	●			●	required	
	0301-8	Logging	●			●	required	
	0301-9	Flow meter Notes	●			●	required	
	0302	0302-1	Graphic Feeder pipes (service pipes)	●				required
0302-1		PipeID	●			●	required	
0302-2		Pipe material	●			●	required	
0302-3		Pipe size	●			●	required	
0302-4		Graphic Water meter	●				Daily	
0302-5		HouseID	●				Daily	
0302-6		Customer's Name	●				Daily	
0302-7		MeterID	●				Daily	
0302-8		Status of Meter (whether working, buried etc)	●				required	
0302-9		Manufacturer	●				required	
0302-10		Size of Meter	●				required	
0303	0303-1	Date of Installation	●				required	
	0303-2	Lot Number	●			●	required	
	0303-3	Comments	●				required	
	2. Water Source information							
	0401-1	Graphic Borehole	●				required	
	0401-1	Borehole ID	-			●	required	
	0401-2	Borehole Type	-			●	required	
	0401-3	Well (depth)	-			●	required	
	0401-4	Head	-			●	required	
	0401-5	Head Max	-			●	required	
	0401-6	Pump ID	-			●	required	
0401-7	Location	-			●	required		
0401-8	Manufacturer	-			●	required		
0402	0401-9	Serial No	-			●	required	
	0402-10	Flow Rate	-			●	required	
	0402-11	Static Water Level	-			●	required	
	0402-12	Dynamic Water Level	-			●	required	
	0402-13	Date of Pump Installed	-			●	required	
	0402-14	Date of last maintenance	-			●	required	
	0402-15	Age	-			●	required	
	0402-16	Status	-			●	required	
	3. Pump Station information							
	0402-1	Graphic Pump station	●				required	
	0402-1	Station ID	-			●	required	
0402-2	Unit name	●				required		
0402-3	Station type	●				required		
0402-4	Location	●				required		
0402-5	Age	●				required		
0402-6	Status	●				required		
0402-7	Power Usage (KWh)	●				required		
0402-8	Number of pump	●				required		
4. Service reservoir information								
0403-1	Graphic Service reservoir	●				required		
0403-1	Service reservoir name	●				required		
0403-2	Structure of service reservoir	●				-		
0403-3	Elevation of service reservoir	●				required		
0403-4	Capacity of service reservoir	●				required		
0403-5	H.W.L., L.W.L.	●				required		
0403-6	Date of last maintenance	●			●	required		
0404-1	Graphic Distribution area of source	●				required		

Mbaranamba Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks
		Updated	Ongoing	Not yet	No data		
1. Distribution Facility information							
0101	Graphical Water distribution pipes	•				required	
	0101-1 Pipe ID	•				required	
	0101-2 Networks	•				required	
	0101-3 Systems	•				required	
	0101-4 Pipe material	•				required	
	0101-5 Pipe diameters	•				required	
	0101-6 Pipe length	•				required	
	0101-7 Pipe Depth	•				required	
	0101-8 Pipe Use	•				required	
	0101-9 Completion year	•	•			required	
	0101-10 Date of last maintenance	•				required	
	0101-11 Date of Replacement / Rehabilitation	•				required	No records have been kept at all
	0101-12 Date of Repairing	•				required	No records have been kept at all
	0101-13 Date of Leakage detection	•				required	
	0101-14 Pipe Notes	•				required	
0102	Graphical Shave valve (gate valve)	•				required	
	0102-1 Valve ID	•				required	
	0102-2 Networks	•				required	
	0102-3 Systems	•				required	
	0102-4 Valve material	•				required	
	0102-5 Valve size	•				required	
	0102-6 Depth	•				required	
	0102-7 Direction of turn	•				required	
	0102-8 Valve status	•				required	
	0102-9 Date of Installation	•				required	
	0102-10 Date of last maintenance	•				required	
	0102-11 Valve Notes	•				required	
	Graphical Hydrant	•				required	
	0103-1 Hydrant ID	•				required	
0103	0103-2 Networks	•				required	
	0103-3 Systems	•				required	
	0103-4 Hydrant type	•				required	
	0103-5 Hydrant diameters	•				required	
	0103-6 Date of Installation	•				required	
	0103-7 Last maintenance Date	•				required	
	0103-8 Hydrant Notes	•				required	No records have been kept at all
	Graphical Air valve	•				required	
	0104-1 Air Valve ID	•				required	
	0104-2 Networks	•				required	
	0104-3 Systems	•				required	
	0104-4 Air Valve size	•				required	
	0104-5 Date of Installation	•				required	
	0104-6 Last maintenance Date	•				required	No records have been kept at all
	0104-7 Air Valve Notes	•				required	
0105	Graphical Water pipe bridge	•				required	
	0105-1 ID	•				required	
	0105-2 Length	•				required	
	0105-3 Pipe material	•				required	
	0105-4 Last maintenance Date	•				required	
	0105-5 Bridge Name	•				required	
	0105-6 Bridge material	•				required	
	Graphical Sewer Manholes	•				required	
	0106-1 Sequential number	•				required	
	0106-2 Distribution System number	•				required	
	0106-3 Distribution System name	•				required	
	0106-4 Distribution System location	•				required	
	0106-5 Distribution System code	•				required	
	0106-6 SSSVAC	•				required	
0106	0106-7 SSSVLENNO	•				required	
	0106-8 SMH number	•				required	
	0106-9 SMH type	•				required	
	0106-10 SMH IL	•				required	
	0106-11 SMH RL	•				required	
	0106-12 SMH size	•				required	
	0106-13 SMH date	•				required	
	Graphical Sewer Pipelines	•				required	
	0107-1 Sequential number	•				required	
	0107-2 Distribution System number	•				required	
	0107-3 Distribution System name	•				required	
	0107-4 Distribution System location	•				required	
	0107-5 Distribution System code	•				required	
	0107-6 SSSVAC	•				required	
0107	0107-7 SSSVLENNO	•				required	
	0107-8 SP_NO	•				required	
	0107-9 Sewer Pipe Length	•				required	
	0107-10 SP_SIL	•				required	
	0107-11 SP_FIL	•				required	

Mbaranamba Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks
		Updated	Ongoing	Not yet	No data		
0201	0107-12 SP_A/C/V	•				required	
	0107-13 Sewer Pipe diameters	•				required	
	0107-14 SP_TYPE	•				required	
	0107-15 SP_MAKE	•				required	
	0107-16 SP_DATE	•				required	
	0107-17 SP_RLOPE	•				required	
	0107-18 SP_CONNO	•				required	
	0107-19 SP_CONNEX	•				required	
	0107-20 SP_LINK	•				required	
	Graphical Leakage location	•				required	
	0201-1 ID	•				Daily	
	0201-2 Leakage Type	•				Daily	
	0201-3 Status of Leak	•				Daily	
	0201-4 Location	•				Daily	
0202	0201-5 Condition	•				Daily	
	0201-6 Asset type	•				required	
	0201-7 Asset Size	•				required	
	0201-8 Asset Material	•				required	
	0201-9 Date of survey	•				Daily	
	Graphical Flow meters	•				required	
	0301-1 ID	•				required	
	0301-2 Networks	•				required	
	0301-3 Systems	•				required	
	0301-4 Location	•				required	
	0301-5 Size	•				required	
	0301-6 Date of Installation	•				required	
	0301-7 Last maintenance Date	•				required	
	0301-8 Logging	•				required	
0302	0301-9 Flow meter Notes	•				required	
	Graphical Feeder pipes (service pipes)	•				required	
	0302-1 PipeID	•				required	
	0302-2 Pipe material	•				required	
	0302-3 Pipe size	•				required	
	Graphical Water meter	•				Daily	
	0303-1 HouseID	•				Daily	
	0303-2 Customer's Name	•				Daily	
	0303-3 MeterID	•				Daily	
	0303-4 Status of Meter (whether working, buried etc)	•				Daily	
	0303-5 Manufacturer	•				required	
	0303-6 Size of Meter	•				required	
	0303-7 Date of Installation	•				required	
	0303-8 Lot Number	•				required	
	0303-9 Comments	•				required	
2. Water Source information							
0401	Graphical Bore holes	•				required	
	0401-1 Borehole ID	•				required	
	0401-2 Borehole Type	•				required	
	0401-3 Well depth(m)	•				required	
	0401-4 Head	•				required	
	0401-5 Head Max	•				required	
	0401-6 Pump ID	•				required	
	0401-7 Location	•				required	
	0401-8 Manufacture	•				required	
	0401-9 Serial No.	•				required	
	0401-10 Flow Rate	•				required	
	0401-11 Static Water Level	•				required	
	0401-12 Dynamic Water Level	•				required	
	0401-13 Date of Pump Installed	•				required	
0402	0401-14 Date of last maintenance	•				required	
	0401-15 Age	•				required	
	0401-16 Status	•				required	
	0401-17 Pump station	•				required	
	0402-1 Station ID	•				required	
	0402-2 Unit name	•				required	
	0402-3 Station type	•				required	
	0402-4 Location	•				required	
	0402-5 Age	•				required	
	0402-6 Status	•				required	
	0402-7 Power Usage (KWh)	•				required	
	0402-8 Number of runs	•				required	
	0402-9 Pump station	•				required	
	0402-10 Station ID	•				required	
3. Pump Station information							
0403	Graphical Service reservoir	•				required	
	0403-1 Service reservoir name	•				required	
	0403-2 Structure of service reservoir	•				required	
	0403-3 Elevation of service reservoir	•				required	
	0403-4 Capacity of service reservoir	•				required	
	0403-5 H.W.L. / L.W.L.	•				required	
	0403-6 Date of last maintenance	•				required	
	Graphical Distribution area of source	•				required	
	0404-1 Area name	•				required	

Mbaranamba Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks
		Updated	Ongoing	Not yet	No data		
6. Other informations							
0405	Graphical Water quality (Independent observation)	•				Daily / Monthly	
	0405-1 Water Quality Point No.	•				Daily / Monthly	
	0405-2 Location Name	•				Daily / Monthly	
	0405-3 Date of Survey	•				Daily / Monthly	
	0405-4 Source name	•				Daily / Monthly	
	0405-5 Source Type	•				Daily / Monthly	
	0405-6 Unfiltered condition	•				Daily / Monthly	
	0405-7 Unfiltered area (hectares)	•				Daily / Monthly	
	0405-8 Flow Rate (L/s)	•				Daily / Monthly	
	0405-9 Chlorine Demand (mg/l O.L)	•				Daily / Monthly	
	0405-10 Hardness (mg/L)	•				Daily / Monthly	
	0405-11 Turbidity (NTU)	•				Daily / Monthly	
	Graphical Customer's information	•				Daily	
	0405-1 Customer ID	•				Daily	
0406	0405-2 Customer's name	•				Daily	
	0405-3 House ID	•				Daily	
	0405-4 Type Of Account	•				Daily	
	0405-5 Boundary of plot (land)	•				required	
	0405-6 Customer's status	•				Daily	

*1 : The term of "Required" indicates the irregular update work.

For example, such as "updating, if new information clients accumulate +

Since it is an ambiguous definition, SW and JICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Mbua Valley Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks	
		Updated	Ongoing	Not yet	No data			
1. Distribution Facility information								
01.01	Graphic Water distribution pipes	•				required		
	0101-1 Pipe ID	•				required		
	0101-2 Networks	•				required		
	0101-3 Systems	•				required		
	0101-4 Pipe material	•				required		
	0101-5 Pipe diameters	•				required		
	0101-6 Pipe length	•				required		
	0101-7 Pipe Depth	•				required		
	0101-8 Pipe Use	•				required		
	0101-9 Completion year	•				required		
	0101-10 Date of last maintenance	•				required	No records have been kept at all	
	0101-11 Date of Replacement / Rehabilitation	•				required	No records have been kept at all	
	0101-12 Date of Repairing	•				required	No records have been kept at all	
	0101-13 Date of Leakage detection	•				required		
01.02	0101-14 Pipe Notes	•				required		
	Graphic Shave valve (gate valve)	•				required		
	0102-1 Valve ID	•				required		
	0102-2 Networks	•				required		
	0102-3 Systems	•				required		
	0102-4 Valve material	•				required		
	0102-5 Valve size	•				required		
	0102-6 Depth	•				required		
	0102-7 Direction of turn	•				required		
	0102-8 Valve status	•				required		
	0102-9 Date of Installation	•				required		
	0102-10 Date of last maintenance	•				required		
	0102-11 Valve Notes	•				required		
	01.03	Graphic Hydrant	•				required	
0103-1 Hydrant ID		•				required		
0103-2 Networks		•				required		
0103-3 Systems		•				required		
0103-4 Hydrant type		•				required		
0103-5 Hydrant diameters		•				required		
0103-6 Date of Installation		•				required		
0103-7 Last maintenance Date		•				required	No records have been kept at all	
0103-8 Hydrant Notes		•				required		
Graphic Air valve		•				required		
0104-1 Air Valve ID		•				required		
0104-2 Networks		•				required		
0104-3 Systems		•				required		
0104-4 Air Valve size		•				required		
01.04	0104-5 Date of Installation	•				required		
	0104-6 Last maintenance Date	•				required		
	0104-7 Air Valve Notes	•				required	No records have been kept at all	
	Graphic Water pipe bridge	•				required		
	0105-1 ID	•				required		
	0105-2 Length	•				required		
	0105-3 Pipe material	•				required		
	0105-4 Last maintenance Date	•				required		
	0105-5 Bridge Name	•				-		
	0105-6 Bridge material	•				-		
	01.05	Graphic Sewer Manholes	•				required	
		0106-1 Sequential number	•				required	
		0106-2 Distribution System number	•				required	
		0106-3 Distribution System name	•				required	
0106-4 Distribution System location		•				required		
0106-5 Distribution System code		•				required		
0106-6 SSYSAC		•				required		
0106-7 SSYSLNERO		•				required		
0106-8 SSM number		•				required		
0106-9 SSM type		•				required		
0106-10 SSM_RL		•				required		
0106-11 SSM_REL		•				required		
0106-12 SSM size		•				required		
0106-13 SSM_date		•				required		
01.06	Graphic Sewer Pipelines	•				required		
	0107-1 Sequential number	•				required		
	0107-2 Distribution System number	•				required		
	0107-3 Distribution System name	•				required		
	0107-4 Distribution System location	•				required		
	0107-5 Distribution System code	•				required		
	0107-6 SSYSAC	•				required		
	0107-7 SSYSLNERO	•				required		
	0107-8 SP_NG	•				required		
	0107-9 Sewer Pipe Length	•				required		
	0107-10 SP_SIL	•				required		
	0107-11 SP_RL	•				required		

Mbua Valley Input item of GIS

No.	GIS subject	Progress of Database			Frequency of update(+) 1)	Remarks
		Updated	Ongoing	Not yet		
0101-12	SP_ACV	•			•	required
	0101-13 Sewer Pipe diameters	•			•	required
	0101-14 SP_TYPR	•			•	required
	0101-15 SP_MAR	•			•	required
	0101-16 SP_DATE	•			•	required
	0101-17 SP_SLOPE	•			•	required
	0101-18 SP_CONNG	•			•	required
	0101-19 SP_CONNRC	•			•	required
	0101-20 SP_LINK	•			•	required
	0201	Graphical Leakage location	•			
0201-1 ID		•				Daily
0201-2 Leakage Type		•				Daily
0201-3 Status of Leak		•				Daily
0201-4 Location		•				Daily
0201-5 Condition		•				Daily
0201-6 Asset type		•			•	required
0201-7 Asset Size		•			•	required
0201-8 Asset Material		•			•	required
0201-9 Date of survey		•				Daily
0301	Graphical Flow meters	•				required
	0301-1 ID	•				required
	0301-2 Networks	•			•	required
	0301-3 Systems	•			•	required
	0301-4 Location	•			•	required
	0301-5 Size	•			•	required
	0301-6 Date of Installation	•			•	required
	0301-7 Last maintenance Date	•			•	required
	0301-8 Logging	•			•	required
	0301-9 Flow meter Notes	•			•	required
0401	Graphical Feeder pipes (service pipes)	•				required
	0401-1 PipeID	•				required
	0401-2 Pipe material	•			•	required
	0401-3 Pipe size	•			•	required
	Graphical Water meter	•				Daily
	0401-1 HousedID	•				Daily
	0401-2 Customer's Name	•				Daily
	0401-3 MeterID	•				Daily
	0401-4 Status of Meter (whether working, buried etc)	•				
	0401-5 Manufacturer	•				
0501	2. Water Source information	•				required
	Graphical Bore holes	•				required
	0401-1 Borehole ID	•				-
	0401-2 Borehole Type	•			•	required
	0401-3 Well depth(m)	•				-
	0401-4 Head	•			•	-
	0401-5 Head Max	•			•	-
	0401-6 Pump ID	•			•	required
	0401-7 Location	•			•	required
	0401-8 Manufacturer	•			•	-
0601	3. Pump Station information	•				required
	Graphical Pump station	•				required
	0402-1 Station ID	•				-
	0402-2 Unit name	•			•	required
	0402-3 Station type	•			•	required
	0402-4 Location	•			•	required
	0402-5 Age	•			•	required
	0402-6 Status	•			•	required
	0402-7 Power Usage (KWh)	•			•	required
	0402-8 Number of pump	•			•	required
0701	4. Service reservoir information	•				required
	Graphical Service reservoir	•				required
	0403-1 Service reservoir name	•			•	-
	0403-2 Structure of service reservoirs	•			•	-
	0403-3 Elevation of service reservoirs	•			•	required
	0403-4 Capacity of service reservoir	•			•	required
	0403-5 H.W.L., L.W.L.	•			•	required
	0403-6 Date of last maintenance	•			•	required
	Graphical Distribution area of source	•			•	required
	0404-1 Area name	•			•	required

Mbua Valley Input item of GIS

No.	GIS subject	Progress of Database			Frequency of updates ^(*) 1)	Remarks
		Updated	Ongoing	Not yet		
0405	6. Other informations					
	0405-1	Water quality (Feed-point observation)			•	Daily / Monthly
	0405-1	Water Quality Point No			•	Daily / Monthly
	0405-2	Location Name			•	Daily / Monthly
	0405-3	Date of Survey			•	Daily / Monthly
	0405-4	Source name			•	Daily / Monthly
	0405-5	Source Type			•	Daily / Monthly
	0405-6	Catchment condition			•	Daily / Monthly
	0405-7	Catchment area(Hectares)			•	Daily / Monthly
	0405-8	Flow Rate (L/s)			•	Daily / Monthly
0501	0405-9	Chlorine Demand (mg/10L)			•	Daily / Monthly
	0405-10	Hardness (mg/L)			•	Daily / Monthly
	0405-11	Turbidity (NTU)			•	Daily / Monthly
	5. Customer's information					
	0405-1	Customer ID		•		Daily
	0405-2	Customer's name		•		Daily
	0405-3	House ID		•		Daily
	0405-4	Type of Account	•			Daily
	0405-5	Breadth of plot (load)				required
	0405-6	Customer's status		•		Daily

*1: The term of 'Required' indicates the irregular update work.

For example, such as 'Updating, if ten information sheets accumulate'.

Since it is an ambiguous definition, SW and ITC's expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Bahai Kukum Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks	
		Updated	Ongoing	Not yet	No data			
0101	1. Distribution Facility information							
	Graphic Water distribution pipes	•				required		
	0101-1 Pipe ID	•				required		
	0101-2 Networks	•				required		
	0101-3 Systems	•				required		
	0101-4 Pipe material	•				required		
	0101-5 Pipe diameters	•				required		
	0101-6 Pipe length	•				required		
	0101-7 Pipe Depth	•			•	required		
	0101-8 Pipe Use	•				required		
	0101-9 Completion year	•			•	required	No records have been kept at all	
	0101-10 Date of last maintenance	•			•	required		
	0101-11 Date of Replacement / Relinhabitation	•			•	required	No records have been kept at all	
	0101-12 Date of Repairing	•			•	required		
	0101-13 Date of Leakage detection	•			•	required	No records have been kept at all	
0102	0101-14 Pipe Notes	•				required		
	Graphic Shunt valve (gate valve)	•				required		
	0102-1 Valve ID	•				required		
	0102-2 Networks	•				required		
	0102-3 Systems	•				required		
	0102-4 Valve material	•				required		
	0102-5 Valve size	•				required		
	0102-6 Depth	•			•	required		
	0102-7 Direction of turn	•				required		
	0102-8 Valve status	•				required		
	0102-9 Date of Installation	•				required		
	0102-10 Date of last maintenance	•				required		
	0102-11 Valve Notes	•				required		
	0103	Graphic Hydrant	•				required	
		0103-1 Hydrant ID	•				required	
0103-2 Networks		•				required		
0103-3 Systems		•				required		
0103-4 Hydrant type		•				required		
0103-5 Hydrant diameters		•				required		
0103-6 Date of Installation		•				required		
0103-7 Last maintenance Date		•				required		
0103-8 Hydrant Notes		•				required		
Graphic Air valve		•				required		
0104-1 Air Valve ID		•			•	required		
0104-2 Networks		•				required		
0104-3 Systems		•				required		
0104-4 Air Valve size		•				required		
0104		0104-5 Date of Installation	•				required	
	0104-6 Last maintenance Date	•			•	required	No records have been kept at all	
	0104-7 Air Valve Notes	•				required		
	Graphic Water pipe bridge	•				required		
	0105-1 ID	•				required		
	0105-2 Length	•				required		
	0105-3 Pipe material	•				required		
	0105-4 Last maintenance Date	•				required		
	0105-5 Bridge Name	•				required		
	0105-6 Bridge material	•				-		
	Graphic Sewer Manholes	•				required		
	0106-1 Sequential number	•				required		
	0106-2 Distribution System number	•				required		
	0106-3 Distribution System name	•				required		
	0106-4 Distribution System location	•				required		
0106	0106-5 Distribution System code	•				required		
	0106-6 SS/SAC	•				required		
	0106-7 SS/SLE/NEO	•				required		
	0106-8 SBI number	•				required		
	0106-9 SBI type	•				required		
	0106-10 SBI IL	•				required		
	0106-11 SBI RL	•				required		
	0106-12 SBI size	•				required		
	0106-13 SBI date	•				required		
	Graphic Sewer Pipelines	•				required		
	0107-1 Sequential number	•				-		
	0107-2 Distribution System number	•				required		
	0107-3 Distribution System name	•				required		
	0107-4 Distribution System location	•				required		
	0107-5 Distribution System code	•				required		
0107-6 SS/SAC	•				required			
0107-7 SS/SLE/NEO	•				required			
0107	0107-8 SP NO	•				required		
	0107-9 Sewer Pipe Length	•				required		
	0107-10 SP SBI	•				required		
	0107-11 SP RH	•				required		

Bahai Kukum Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)	Remarks
		Updated	Ongoing	Not yet	No data		
0100-12	SP ACV				•	required	
0100-13	Sewer Pipe diameters				•	required	
0100-14	SP TYPH				•	required	
0100-15	SP MAKE				•	required	
0100-16	SP DATE				•	required	
0100-17	SP SLOPE				•	required	
0100-18	SP CONNO				•	required	
0100-19	SP CONNID				•	required	
0100-20	SP LINK				•	required	
0201	Graphic: Leakage location	•				Daily	
	0201-1 ID				•	Daily	
	0201-2 Leakage Type				•	required	
	0201-3 Status of Leak				•	Daily	
	0201-4 Location				•	Daily	
	0201-5 Condition				•	Daily	
	0201-6 Asset type				•	required	
	0201-7 Asset Size				•	required	
	0201-8 Asset Material				•	required	
	0201-9 Date of survey				•	Daily	
0301	Graphic: Flow meters	•				required	
	0301-1 ID			•		required	
	0301-2 Networks				•	required	
	0301-3 Systems				•	required	
	0301-4 Location				•	required	
	0301-5 Size				•	required	
	0301-6 Date of Installation				•	required	
	0301-7 Last maintenance Date				•	required	
	0301-8 Lognote				•	required	
	0301-9 Flow meter Notes				•	required	
0402	Graphic: Feeder pipes (service pipes)				•	required	
	0402-1 Piped			•		required	
	0402-2 Pipe material				•	required	
	0402-3 Pipe size				•	required	
	Graphic: Water meter				•	Daily	
	0402-4 MeterID			•		Daily	
	0402-5 Customer's Name				•	Daily	
	0402-6 MeterID				•	Daily	
	0402-7 Status of Meter (whether working, burned etc)				•	required	
	0402-8 Manufacture				•	required	
0403	0403-4 Size of Meter				•	required	
	0403-5 Date of Installation				•	required	
	0403-6 Lot Number				•	required	
	0403-9 Comments				•	required	
	2. Water Source information						
	Graphic: Flow index	•				required	
	0403-1 Borehole ID				•	-	
	0403-2 Borehole Type				•	-	
	0403-3 Well depth(m)				•	required	
	0403-4 Head				•	-	
0403-5 Head Max				•	-		
0403-6 Pump ID				•	-		
0403-7 Location				•	required		
0403-8 Manufacture				•	-		
0404	0403-9 Serial No				•	-	
	0404-10 Flow Rate				•	required	
	0404-11 Static Water Level				•	required	
	0404-12 Dynamic Water Level				•	required	
	0404-13 Date of Pump Installed				•	required	
	0404-14 Date of last maintenance				•	required	
	0404-15 Age				•	required	
	0404-16 Status				•	required	
	3. Pump Station information						
	Graphic: Pump station	•				required	
0404-1 Station ID				•	-		
0404-2 Unit name				•	required		
0404-3 Station type				•	required		
0404-4 Location				•	required		
0404-5 Age				•	required		
0404-6 Status				•	required		
0404-7 Power Usage (KWH)				•	required		
0404-8 Number of pumps				•	required		
4. Service reservoir information							
Graphic: Service reservoir	•				required		
0404-1 Service reservoir name				•	-		
0404-2 Structure of service reservoir				•	-		
0404-3 Elevation of service reservoir				•	required		
0404-4 Capacity of service reservoir				•	required		
0404-5 H.W.L., L.W.L.				•	required		
0404-6 Date of last maintenance				•	required		
0404-7 Distribution area of source				•	required		

*1: The term of 'Required' indicates the irregular update work.

For example, such as 'Updating, if ten information sheets accumulate'.

Bahai Kukum Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
4. Other informations							
0405	Graphical Water quality (Point-Point observation)			●		Daily / Monthly	
	0405-1 Water Quality Point No			●		Daily / Monthly	
	0405-2 Location Name			●		Daily / Monthly	
	0405-3 Date of Survey			●		Daily / Monthly	
	0405-4 Source name			●		Daily / Monthly	
	0405-5 Source Type			●		Daily / Monthly	
	0405-6 Catchment condition			●		Daily / Monthly	
	0405-7 Catchment area(hectares)			●		Daily / Monthly	
	0405-8 Flow Rate (L/s)			●		Daily / Monthly	
	0405-9 Chlorine Demand (mg/10L)			●		Daily / Monthly	
	0405-10 Turbidity (NTU)			●		Daily / Monthly	
5. Customer's information							
0501	0405-1 Customer ID	●				Daily	
	0405-2 Customer's name	●				Daily	
	0405-3 House ID			●		Daily	
	0405-4 Type Of Account			●		Daily	
	0405-5 Boundary of plot (land)			●		required	
	0405-6 Customer's status	●				Daily	

*1: The term of "Required" indicates the regular update work.

For example, such as "updating, if ten information sheets accumulate".

Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Panatina Valley Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks	
		Updated	Ongoing	Not yet	No data			
0101	1. Distribution Facility information							
	Graphical Water distribution pipes	●				required		
	0101-1 Pipe ID	●				required		
	0101-2 Networks	●				required		
	0101-3 Systems	●				required		
	0101-4 Pipe material	●				required		
	0101-5 Pipe diameters	●				required		
	0101-6 Pipe length	●				required		
	0101-7 Pipe Depth	●			●	required		
	0101-8 Pipe Use	●			●	required		
	0101-9 Completion year	●			●	required	No records have been kept at all.	
	0101-10 Date of last maintenance	●			●	required	No records have been kept at all.	
	0101-11 Date of Replenishment / Rehabilitation	●			●	required	No records have been kept at all.	
	0101-12 Date of Repairing	●			●	required	No records have been kept at all.	
	0101-13 Date of Leakage detection	●			●	required	No records have been kept at all.	
0102	0101-14 Pipe Notes	●				required		
	Graphical Shave valve (gate valve)	●				required		
	0102-1 Valve ID	●				required		
	0102-2 Networks	●				required		
	0102-3 Systems	●				required		
	0102-4 Valve material	●				required		
	0102-5 Valve size	●				required		
	0102-6 Depth	●			●	required		
	0102-7 Direction of turn	●				required		
	0102-8 Valve status	●				required		
	0102-9 Date of Installation	●			●	required		
	0102-10 Date of last maintenance	●				required		
	0102-11 Valve Notes	●			●	required		
	0103	Graphical Hydrant	●				required	
		0103-1 Hydrant ID	●			●	required	
0103-2 Networks		●				required		
0103-3 Systems		●				required		
0103-4 Hydrant type		●				required		
0103-5 Hydrant diameters		●				required		
0103-6 Date of Installation		●				required		
0103-7 Last maintenance Date		●			●	required	No records have been kept at all.	
0103-8 Hydrant Notes		●				required		
Graphical Air valve		●				required		
0104-1 Air Valve ID		●			●	required		
0104-2 Networks		●				required		
0104-3 Systems		●				required		
0104-4 Air Valve size		●				required		
0104		0104-5 Date of Installation	●				required	
	0104-6 Last maintenance Date	●			●	required	No records have been kept at all.	
	0104-7 Air Valve Notes	●				required		
	Graphical Water pipe bridge	●				required		
	0105-1 ID	●			●	required		
	0105-2 Length	●				required		
	0105-3 Pipe material	●				required		
	0105-4 Last maintenance Date	●				required		
	0105-5 Bridge Name	●				required		
	0105-6 Bridge material	●				-		
	Graphical Sewer Markholes	●				required		
	0106-1 Sequential number	●			●	required		
	0106-2 Distribution System number	●				required		
	0106-3 Distribution System name	●				required		
	0106-4 Distribution System location	●				required		
0105	0106-5 Distribution System code	●				required		
	0106-6 SSSYSAC	●				required		
	0106-7 SSSYSLINENO	●				required		
	0106-8 SMI number	●				required		
	0106-9 SMI type	●				required		
	0106-10 SMI IL	●				required		
	0106-11 SMI RL	●				required		
	0106-12 SMI size	●				required		
	0106-13 SMI date	●				required		
	Graphical Sewer Pipelines	●			●	required		
	0107-1 Sequential number	●			●	required		
	0107-2 Distribution System number	●				required		
	0107-3 Distribution System name	●				required		
	0107-4 Distribution System location	●				required		
	0107	0107-5 Distribution System code	●				required	
0107-6 SSSYSAC		●				required		
0107-7 SSSYSLINENO		●				required		
0107-8 SP_NO		●				required		
0107-9 Sewer Pipe Length		●				required		
0107-10 SP_SIL		●				required		
0107-11 SP_TIL		●				required		

*1: The term of "Required" indicates the regular update work.

For example, such as "updating, if ten information sheets accumulate".

Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Panatina Valley Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
0107-12	SP_ACV			●		required	
	0107-13 Sewer Pipe diameters			●		required	
	0107-14 SP_TYPE			●		required	
	0107-15 SP_MAKE			●		required	
	0107-16 SP_DATE			●		required	
	0107-17 SP_SLOPE			●		required	
	0107-18 SP_CONNO			●		required	
	0107-19 SP_CONNEC			●		required	
	0107-20 SP_LINK			●		required	
	Graphical Leakage location	●				Daily	
	0201-1 ID	●				Daily	
0201	0201-2 Leakage Type	●				Daily	
	0201-3 Status of Leak	●				Daily	
	0201-4 Location	●				Daily	
	0201-5 Condition	●				Daily	
	0201-6 Asset type	●				required	
	0201-7 Asset Size	●				required	
	0201-8 Asset Material	●				required	
	0201-9 Date of survey	●				Daily	
	Graphical Flow meters	●				required	
	0301-1 ID	●				required	
	0301-2 Networks	●				required	
0301	0301-3 Systems	●				required	
	0301-4 Location	●				required	
	0301-5 Size	●				required	
	0301-6 Date of Installation	●				required	
	0301-7 Last maintenance Date	●				required	
	0301-8 Leakage	●				required	
	0301-9 Flow meter Notes	●				required	
	Graphical Feeder pipes (service pipes)	●				required	
	0302-1 PipeID	●				required	
	0302-2 Pipe material	●				required	
	0302-3 Pipe size	●				required	
0303	Graphical Water meter	●				Daily	
	0303-1 HouseID	●				Daily	
	0303-2 Customer's Name	●				Daily	
	0303-3 MeterID	●				Daily	
	0303-4 Status of Meter (whether working, buried etc)	●				Daily	
	0303-5 Manufacturer	●				required	
	0303-6 Size of Meter	●				required	
	0303-7 Date of Installation	●				required	
	0303-8 Lot Number	●				required	
	0303-9 Comments	●				required	
2. Water Source information							
0401	Graphical Bore holes	●				required	
	0401-1 Borehole ID	●				-	
	0401-2 Borehole Type	●				required	
	0401-3 Well depth(m)	●				required	
	0401-4 Head	●				-	
	0401-5 Head Max	●				-	
	0401-6 Pump ID	●				required	
	0401-7 Location	●				required	
	0401-8 Manufacture	●				-	
	0401-9 Serial No	●				-	
	0401-10 Flow Rate	●				required	
0402	0401-11 Static Water Level	●				required	
	0401-12 Dynamic Water Level	●				required	
	0401-13 Date of Pump Installed	●				required	
	0401-14 Date of last maintenance	●				required	
	0401-15 Age	●				required	
	0401-16 Status	●				required	
3. Pump Station information							
0403	Graphical Pump station	●				required	
	0403-1 Station ID	●				required	
	0403-2 Unit name	●				required	
	0403-3 Station type	●				required	
	0403-4 Location	●				required	
	0403-5 Age	●				required	
	0403-6 Status	●				required	
	0403-7 Power Usage (KWh)	●				required	
	0403-8 Number of pump	●				required	
	Graphical Service reservoir	●				required	
	0403-1 Service reservoir name	●				-	
0404	0403-2 Structure of service reservoir	●				-	
	0403-3 Elevation of service reservoir	●				required	
	0403-4 Capacity of service reservoir	●				required	
	0403-5 H.W.L., L.W.L.	●				required	
	0403-6 Date of last maintenance	●				required	
0405	Graphical Distribution area of source	●				required	
	0405-1 Area name	●				required	

Panatina Valley Input item of GIS

1. Analysis and Data Collection							
No.	GIS subject	Progress of Database			Frequency of update(*1)	Remarks	
		Updated	Ongoing	Not yet			No data
6. Other informations							
0405	Graphical Water quality (Point-Point observation)			●		Daily / Monthly	
	0405-1 Water Quality Point No				●	Daily / Monthly	
	0405-2 Location Name				●	Daily / Monthly	
	0405-3 Date of Survey				●	Daily / Monthly	
	0405-4 Source name				●	Daily / Monthly	
	0405-5 Source Type				●	Daily / Monthly	
	0405-6 Catchment condition				●	Daily / Monthly	
	0405-7 Catchment area(hectares)				●	Daily / Monthly	
	0405-8 Flow Rate (L/s)				●	Daily / Monthly	
	0405-9 Chlorine Demand (mg/10L)				●	Daily / Monthly	
	0405-10 Hardness (mg/L)				●	Daily / Monthly	
0405-11 Turbidity (NTU)				●	Daily / Monthly		
5. Customer's information							
0601	0405-1 Customer ID		●			Daily	
	0405-2 Customer's name		●			Daily	
	0405-3 House ID		●			Daily	
	0405-4 Type Of Account		●			Daily	
	0405-5 Boundary of plot (area)		●	●		required	
	0405-6 Customer's name		●			Daily	

Naha2 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
1. Distribution Facility information							
0101	Graphical Water distribution pipes	●				required	
	0101-1 Pipe ID	●		●		required	
	0101-2 Networks	●				required	
	0101-3 Systems	●				required	
	0101-4 Pipe material	●				required	
	0101-5 Pipe diameters	●				required	
	0101-6 Pipe length	●				required	
	0101-7 Pipe Depth	●				required	
	0101-8 Pipe Loss	●				required	
	0101-9 Completion year	●			●	required	No records have been kept at all
	0101-10 Date of last maintenance	●				required	
	0101-11 Date of Replacement / Rehabilitation	●			●	required	No records have been kept at all
	0101-12 Date of Repairing	●			●	required	No records have been kept at all
	0101-13 Date of Leakage detection	●				required	
	0101-14 Pipe Notes	●				required	
0102	Graphical Shave valve (gate valve)	●				required	
	0102-1 Valve ID	●		●		required	
	0102-2 Networks	●				required	
	0102-3 Systems	●				required	
	0102-4 Valve material	●				required	
	0102-5 Valve size	●				required	
	0102-6 Depth	●		●		required	
	0102-7 Direction of turn	●				required	
	0102-8 Valve status	●				required	
	0102-9 Date of Installation	●				required	
	0102-10 Date of last maintenance	●				required	
	0102-11 Valve Notes	●				required	
	Graphical Hydrant	●				required	
	0103-1 Hydrant ID	●				required	
	0103-2 Networks	●				required	
0103	0103-3 Systems	●				required	
	0103-4 Hydrant type	●				required	
	0103-5 Hydrant diameters	●				required	
	0103-6 Date of Installation	●				required	
	0103-7 Last maintenance Date	●				required	
	0103-8 Hydrant Notes	●				required	
	Graphical Air valve	●				required	
	0104-1 Air Valve ID	●		●		required	
	0104-2 Networks	●				required	
	0104-3 Systems	●				required	
	0104-4 Air Valve size	●				required	
	0104-5 Date of Installation	●				required	
	0104-6 Last maintenance Date	●			●	required	No records have been kept at all
	0104-7 Air Valve Notes	●				required	
	Graphical Water pipe bridge	●				required	
0105	0105-1 ID	●		●		required	
	0105-2 Length	●				required	
	0105-3 Pipe material	●				required	
	0105-4 Last maintenance Date	●			●	required	
	0105-5 Bridge Name	●			●	required	
	0105-6 Bridge material	●			●	required	
	Graphical Sewer Manholes	●				required	
	0106-1 Sequential number	●				required	
	0106-2 Distribution System number	●				required	
	0106-3 Distribution System name	●				required	
	0106-4 Distribution System location	●				required	
	0106-5 Distribution System code	●				required	
	0106-6 SSVSAC	●				required	
	0106-7 SSVSLINENO	●				required	
	0106-8 SMH number	●				required	
0106	0106-9 SMH type	●				required	
	0106-10 SMH IL	●				required	
	0106-11 SMH RL	●				required	
	0106-12 SMH size	●				required	
	0106-13 SMH data	●				required	
	Graphical Sewer Pipelines	●				required	
	0107-1 Sequential number	●				required	
	0107-2 Distribution System number	●				required	
	0107-3 Distribution System name	●				required	
	0107-4 Distribution System location	●				required	
	0107-5 Distribution System code	●				required	
	0107-6 SSVSAC	●				required	
	0107-7 SSVSLINENO	●				required	
	0107-8 SP_200	●				required	
0107	0107-9 Sewer Pipe Length	●				required	
	0107-10 SP_200	●				required	
0107	0107-11 SP_200	●				required	
	0107-12 SP_200	●				required	

Naha2 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
0107	0107-1 SP_200	●				required	
	0107-2 SP_200	●				required	
	0107-3 SP_200	●				required	
	0107-4 SP_200	●				required	
	0107-5 SP_200	●				required	
	0107-6 SP_200	●				required	
	0107-7 SP_200	●				required	
	0107-8 SP_200	●				required	
	0107-9 SP_200	●				required	
	0107-10 SP_200	●				required	
	0107-11 SP_200	●				required	
	0107-12 SP_200	●				required	
	0107-13 SP_200	●				required	
	0107-14 SP_200	●				required	
	0107-15 SP_200	●				required	
0108	Graphical Leakage location	●				required	
	0201-1 ID	●				required	
	0201-2 Leakage Type	●				required	
	0201-3 Status of Leak	●				required	
	0201-4 Location	●				required	
	0201-5 Condition	●				required	
	0201-6 Asset type	●			●	required	
	0201-7 Asset Size	●			●	required	
	0201-8 Asset Material	●			●	required	
	0201-9 Date of survey	●				required	
	Graphical Flow meters	●				required	
	0301-1 ID	●			●	required	
	0301-2 Networks	●			●	required	
	0301-3 Systems	●			●	required	
	0301-4 Location	●			●	required	
	0301-5 Size	●			●	required	
	0301-6 Date of Installation	●			●	required	
	0301-7 Last maintenance Date	●			●	required	
	0301-8 Logging	●			●	required	
	0301-9 Flow meter Notes	●			●	required	
0109	Graphical Feeder pipes (service pipes)	●				required	
	0401-1 PipeID	●		●		required	
	0401-2 Pipe material	●				required	
	0401-3 Pipe size	●				required	
	Graphical Water meter	●				required	
	0501-1 HouseID	●		●		required	
	0501-2 Customer's Name	●				required	
	0501-3 MeterID	●				required	
	0501-4 Status of Meter (whether working, buried etc)	●				required	
	0501-5 Manufacturer	●				required	
	0501-6 Size of Meter	●				required	
	0501-7 Date of Installation	●				required	
	0501-8 Lot Number	●				required	
	0501-9 Comments	●				required	
	0501-10 Comments	●				required	
0110	Graphical Fire holes	●				required	
	0601-1 Firehole ID	●			●	required	
	0601-2 Firehole Type	●			●	required	
	0601-3 Well depth(m)	●			●	required	
	0601-4 Head	●			●	required	
	0601-5 Head Max	●			●	required	
	0601-6 Pump ID	●			●	required	
	0601-7 Location	●			●	required	
	0601-8 Manufacture	●			●	required	
	0601-9 Serial No	●			●	required	
	0601-10 Flow Rate	●			●	required	
	0601-11 Static Water Level	●			●	required	
	0601-12 Dynamic Water Level	●			●	required	
	0601-13 Date of Pump installed	●			●	required	
	0601-14 Date of last maintenance	●			●	required	
	0601-15 Age	●			●	required	
0111	0601-16 Status	●			●	required	
	Graphical Pump station	●				required	
	0701-1 Station ID	●			●	required	
	0701-2 Unit name	●			●	required	
	0701-3 Station type	●			●	required	
	0701-4 Location	●			●	required	
	0701-5 Age	●			●	required	
	0701-6 Status	●			●	required	
	0701-7 Power Usage (KW/h)	●			●	required	
	0701-8 Number of pumps	●			●	required	
	Graphical Service reservoir information	●				required	
	0801-1 Service reservoir name	●			●	required	
	0801-2 Structure of service reservoir	●			●	required	
	0801-3 Elevation of service reservoir	●			●	required	
	0801-4 Capacity of service reservoir	●			●	required	
	0801-5 H.W.L. / L.W.L.	●			●	required	
	0801-6 Date of last maintenance	●			●	required	
0112	Graphical Distribution area of source	●				required	
	0901-1 Area name	●				required	

Naha2 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
6. Other informations							
0101	Graphical Water quality (Tendepoint observation)	●				Daily / Monthly	
	0401-1 Water Quality Point No	●		●		Daily / Monthly	
	0401-2 Location Name	●				Daily / Monthly	
	0401-3 Date of Survey	●				Daily / Monthly	
	0401-4 Source name	●				Daily / Monthly	
	0401-5 Source Type	●				Daily / Monthly	
	0401-6 Endowment condition	●				Daily / Monthly	
	0401-7 Catchment area(hectares)	●				Daily / Monthly	
	0401-8 Flow Rate (L/s)	●				Daily / Monthly	
	0401-9 Chlorine Demand (mg/l O.L.)	●				Daily / Monthly	
	0401-10 Hardness (mg/L)	●				Daily / Monthly	
	0401-11 Turbidity (NTU)	●				Daily / Monthly	
	Graphical Customer's information	●				Daily	
	0501-1 Customer ID	●				Daily	
	0501-2 Customer's name	●				Daily	
0102	0501-3 House ID	●		●		Daily	
	0501-4 Date of account	●				Daily	
	0501-5 Boundary of plot (land)	●		●		required	
	0501-6 Customer's status	●				Daily	

*1 : The term of "Required" indicates the regular update work.

For example, such as "updating, if no information does accumulate".

Since it is an ambiguous definition, SW and JICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Naha3 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*1)	Remarks
		Updated	Ongoing	Not yet	No data		
1. Distribution Facility information							
0101	Graphical Water distribution pipes	●				required	
	0101-1 Pipe ID	●		●		required	
	0101-2 Networks	●				required	
	0101-3 Systems	●				required	
	0101-4 Pipe material	●				required	
	0101-5 Pipe diameters	●				required	
	0101-6 Pipe length	●				required	
	0101-7 Pipe Depth	●				required	
	0101-8 Pipe Loss	●				required	
	0101-9 Completion year	●			●	required	No records have been kept at all
	0101-10 Date of last maintenance	●				required	
	0101-11 Date of Replacement / Rehabilitation	●			●	required	No records have been kept at all
0102	0101-12 Date of Requiring	●			●	required	No records have been kept at all
	0101-13 Date of Leakage detection	●			●	required	No records have been kept at all
	0101-14 Pipe Notes	●				required	
	Graphical Shance valve (gate valve)	●				required	
	0102-1 Valve ID	●		●		required	
	0102-2 Networks	●				required	
	0102-3 Systems	●				required	
	0102-4 Valve material	●				required	
	0102-5 Valve size	●				required	
	0102-6 Depth	●				required	
	0102-7 Direction of turn	●				required	
	0102-8 Valve status	●				required	
0103	0102-9 Date of Installation	●				required	
	0102-10 Date of last maintenance	●				required	
	0102-11 Valve Notes	●				required	
	Graphical Hydrant	●				required	
	0103-1 Hydrant ID	●				required	
	0103-2 Networks	●				required	
	0103-3 Systems	●				required	
	0103-4 Hydrant type	●				required	
	0103-5 Hydrant diameters	●				required	
	0103-6 Date of Installation	●				required	
	0103-7 Last maintenance Date	●				required	
	0103-8 Hydrant Notes	●				required	
0104	Graphical Air valve	●				required	
	0104-1 Air Valve ID	●		●		required	
	0104-2 Networks	●				required	
	0104-3 Systems	●				required	
	0104-4 Air Valve size	●				required	
	0104-5 Date of Installation	●				required	
	0104-6 Last maintenance Date	●			●	required	No records have been kept at all
	0104-7 Air Valve Notes	●				required	
	Graphical Water pipe buckle	●				required	
	0105-1 ID	●				required	
	0105-2 Length	●				required	
	0105-3 Pipe material	●				required	
0105-4 Last maintenance Date	●				required		
0105-5 Buckle Name	●				●	-	
0105-6 Buckle material	●				●	-	
0106	Graphical Sewer Manholes	●				required	
	0106-1 Sequential number	●				required	
	0106-2 Distribution System number	●				required	
	0106-3 Distribution System name	●				required	
	0106-4 Distribution System location	●				required	
	0106-5 Distribution System code	●				required	
	0106-6 SSYSAC	●				required	
	0106-7 SSYSINENO	●				required	
	0106-8 SSBH number	●				required	
	0106-9 SSBH type	●				required	
	0106-10 SSBH_IL	●				required	
	0106-11 SSBH_RL	●				required	
0107	0106-12 SSBH_size	●				required	
	0106-13 SSBH_date	●				required	
	Graphical Sewer Pipelines	●				required	
	0107-1 Sequential number	●				required	
	0107-2 Distribution System number	●				required	
	0107-3 Distribution System name	●				required	
	0107-4 Distribution System location	●				required	
	0107-5 Distribution System code	●				required	
	0107-6 SSYSAC	●				required	
	0107-7 SSYSINENO	●				required	
	0107-8 SP_NO	●				required	
	0107-9 Sewer Pipe Length	●				required	
0107-10 SP_SIL	●				required		
0107-11 SP_IL	●				required		

Naha3 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(†)	Remarks
		Updated	Ongoing	Not yet	No data		
0101	0101-2 SP_ACV	●	●	●	●	required	
	0101-3 Sewer Pipe diameters	●	●	●	●	required	
	0101-4 SP_TYPE	●	●	●	●	required	
	0101-5 SP_MAKE	●	●	●	●	required	
	0101-6 SP_DATE	●	●	●	●	required	
	0101-7 SP_SLCAPE	●	●	●	●	required	
	0101-8 SP_CONNO	●	●	●	●	required	
	0101-9 SP_CONNEC	●	●	●	●	required	
	0101-20 SP_LINK	●	●	●	●	required	
	Graphus Leakage location	●	●	●	●	Daily	
	0201-1 ID	●	●	●	●	Daily	
	0201-2 Leakage Type	●	●	●	●	Daily	
	0201-3 Status of Leak	●	●	●	●	Daily	
	0201-4 Location	●	●	●	●	Daily	
	0201-5 Condition	●	●	●	●	Daily	
0201	0201-6 Asset type	●	●	●	●	required	
	0201-7 Asset Size	●	●	●	●	required	
	0201-8 Asset Material	●	●	●	●	required	
	0201-9 Date of survey	●	●	●	●	Daily	
	Graphus Flow meters	●	●	●	●	required	
	0301-1 ID	●	●	●	●	required	
	0301-2 Networks	●	●	●	●	required	
	0301-3 Systems	●	●	●	●	required	
	0301-4 Location	●	●	●	●	required	
	0301-5 Size	●	●	●	●	required	
	0301-6 Date of Installation	●	●	●	●	required	
	0301-7 Last maintenance Date	●	●	●	●	required	
	0301-8 Logging	●	●	●	●	required	
	0301-9 Flow meter Notes	●	●	●	●	required	
0301	Graphus Feeder pipes (service pipes)	●	●	●	●	required	
	0302-1 PipeID	●	●	●	●	required	
	0302-2 Pipe material	●	●	●	●	required	
	0302-3 Pipe size	●	●	●	●	required	
	Graphus Water meter	●	●	●	●	Daily	
	0303-1 HouseID	●	●	●	●	Daily	
	0303-2 Customer's Name	●	●	●	●	Daily	
	0303-3 MeterID	●	●	●	●	Daily	
	0303-4 Status of Meter (whether working, biased etc)	●	●	●	●	required	
	0303-5 Manufacturer	●	●	●	●	required	
	0303-6 Size of Meter	●	●	●	●	required	
	0303-7 Date of Installation	●	●	●	●	required	
	0303-8 Lot Number	●	●	●	●	required	
	0303-9 Comments	●	●	●	●	required	
	2. Water Source information	●	●	●	●	required	
0401	Graphus Bore holes	●	●	●	●	required	
	0401-1 Borehole ID	●	●	●	●	-	
	0401-2 Borehole Type	●	●	●	●	-	
	0401-3 Well depth(m)	●	●	●	●	required	
	0401-4 Hand	●	●	●	●	-	
	0401-5 Hand Map	●	●	●	●	-	
	0401-6 Pump ID	●	●	●	●	-	
	0401-7 Location	●	●	●	●	required	
	0401-8 Manufacture	●	●	●	●	-	
	0401-9 Serial No	●	●	●	●	-	
	0401-10 Flow Rate	●	●	●	●	required	
	0401-11 Static Water Level	●	●	●	●	required	
	0401-12 Dynamic Water Level	●	●	●	●	required	
	0401-13 Date of Pump Installed	●	●	●	●	required	
	0401-14 Date of last maintenance	●	●	●	●	required	
0402	0402-1 Age	●	●	●	●	required	
	0402-2 Status	●	●	●	●	required	
	0402-3 Power Usage (KWh)	●	●	●	●	required	
	0402-4 Number of pump	●	●	●	●	required	
	4. Service reservoir information	●	●	●	●	required	
	Graphus Service reservoir	●	●	●	●	required	
	0403-1 Service reservoir name	●	●	●	●	-	
	0403-2 Structure of service reservoirs	●	●	●	●	-	
	0403-3 Elevation of service reservoirs	●	●	●	●	required	
	0403-4 Capacity of service reservoir	●	●	●	●	required	
	0403-5 H.W.L, L.W.L	●	●	●	●	required	
	0403-6 Date of last maintenance	●	●	●	●	required	
	0404-1 Distribution area of source	●	●	●	●	required	
	0404-2 Area name	●	●	●	●	required	

Naha3 Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(†)	Remarks
		Updated	Ongoing	Not yet	No data		
0405	6. Other informations	●	●	●	●	required	
	Graphus Water quality (Free-sport observation)	●	●	●	●	Daily / Monthly	
	0405-1 Water Quality Point No.	●	●	●	●	Daily / Monthly	
	0405-2 Location Name	●	●	●	●	Daily / Monthly	
	0405-3 Date of Survey	●	●	●	●	Daily / Monthly	
	0405-4 Source name	●	●	●	●	Daily / Monthly	
	0405-5 Source Type	●	●	●	●	Daily / Monthly	
	0405-6 Catchment coordinates	●	●	●	●	Daily / Monthly	
	0405-7 Catchment area(hectares)	●	●	●	●	Daily / Monthly	
	0405-8 Flow Rate (L/s)	●	●	●	●	Daily / Monthly	
	0405-9 Chlorine Demand (mg/10L)	●	●	●	●	Daily / Monthly	
	0405-10 Hardness (mg/L)	●	●	●	●	Daily / Monthly	
	0405-11 Turbidity (NTU)	●	●	●	●	Daily / Monthly	
	5. Customer's information	●	●	●	●	required	
	0405-1 Customer ID	●	●	●	●	Daily	
0501	0405-2 Customer's name	●	●	●	●	Daily	
	0405-3 House ID	●	●	●	●	Daily	
	0405-4 Type Of Account	●	●	●	●	Daily	
	0405-5 Boundary of plot (land)	●	●	●	●	required	
	0405-6 Customer's status	●	●	●	●	Daily	

*1 : The term of "Required" indicates the irregular update work.
For example, such as "updating, if an information sheet is submitted."
Since it is an ambiguous definition, SIV and RCA expert team will discuss and decide clearly from now on.
And it will indicate by an operation manual.

FFA Kola Road Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(†)	Remarks
		Updated	Ongoing	Not yet	No data		
0101	1. Distribution Facility information	●	●	●	●	required	
	Graphus Water distribution pipes	●	●	●	●	required	
	0101-1 Pipe ID	●	●	●	●	required	
	0101-2 Networks	●	●	●	●	required	
	0101-3 Systems	●	●	●	●	required	
	0101-4 Pipe material	●	●	●	●	required	
	0101-5 Pipe diameters	●	●	●	●	required	
	0101-6 Pipe length	●	●	●	●	required	
	0101-7 Pipe Depth	●	●	●	●	required	
	0101-8 Pipe Use	●	●	●	●	required	
	0101-9 Completion year	●	●	●	●	required	
	0101-10 Date of last maintenance	●	●	●	●	required	No records have been kept at all
	0101-11 Date of Replacement / Rehabilitation	●	●	●	●	required	No records have been kept at all
	0101-12 Date of Repairing	●	●	●	●	required	No records have been kept at all
	0101-13 Date of Leakage detection	●	●	●	●	required	
0102	0101-14 Pipe Notes	●	●	●	●	required	
	Graphus Shice valve (gate valve)	●	●	●	●	required	
	0102-1 Valve ID	●	●	●	●	required	
	0102-2 Networks	●	●	●	●	required	
	0102-3 Systems	●	●	●	●	required	
	0102-4 Valve material	●	●	●	●	required	
	0102-5 Valve size	●	●	●	●	required	
	0102-6 Depth	●	●	●	●	required	
	0102-7 Direction of turn	●	●	●	●	required	
	0102-8 Valve status	●	●	●	●	required	
	0102-9 Date of Installation	●	●	●	●	required	
	0102-10 Date of last maintenance	●	●	●	●	required	
	0102-11 Valve Notes	●	●	●	●	required	
	Graphus Hydrant	●	●	●	●	required	
	0103-1 Hydrant ID	●	●	●	●	required	
0103	0103-2 Networks	●	●	●	●	required	
	0103-3 Systems	●	●	●	●	required	
	0103-4 Hydrant type	●	●	●	●	required	
	0103-5 Hydrant diameters	●	●	●	●	required	
	0103-6 Date of Installation	●	●	●	●	required	
	0103-7 Last maintenance Date	●	●	●	●	required	No records have been kept at all
	0103-8 Hydrant Notes	●	●	●	●	required	
	Graphus Air valve	●	●	●	●	required	
	0104-1 Air Valve ID	●	●	●	●	required	
	0104-2 Networks	●	●	●	●	required	
	0104-3 Systems	●	●	●	●	required	
	0104-4 Air Valve size	●	●	●	●	required	
	0104-5 Date of Installation	●	●	●	●	required	
	0104-6 Last maintenance Date	●	●	●	●	required	No records have been kept at all
	0104-7 Air Valve Notes	●	●	●	●	required	
0105	Graphus Water pipe bridge	●	●	●	●	required	
	0105-1 ID	●	●	●	●	required	
	0105-2 Length	●	●	●	●	required	
	0105-3 Pipe material	●	●	●	●	required	
	0105-4 Last maintenance Date	●	●	●	●	required	
	0105-5 Bridge Name	●	●	●	●	-	
	0105-6 Bridge material	●	●	●	●	-	
	Graphus Sewer Manholes	●	●	●	●	required	
	0106-1 Sequential number	●	●	●	●	required	
	0106-2 Distribution System number	●	●	●	●	required	
	0106-3 Distribution System name	●	●	●	●	required	
	0106-4 Distribution System location	●	●	●	●	required	
	0106-5 Distribution System code	●	●	●	●	required	
	0106-6 SSVSAC	●	●	●	●	required	
	0106-7 SSVSLEHNO	●	●	●	●	required	
0106	0106-8 SMDL number	●	●	●	●	required	
	0106-9 SMDL type	●	●	●	●	required	
	0106-10 SMDL_L	●	●	●	●	required	
	0106-11 SMDL_RL	●	●	●	●	required	
	0106-12 SMDL_size	●	●	●	●	required	
	0106-13 SMDL_date	●	●	●	●	required	
	Graphus Sewer Pipelines	●	●	●	●	required	
	0107-1 Sequential number	●	●	●	●	required	
	0107-2 Distribution System number	●	●	●	●	required	
	0107-3 Distribution System name	●	●	●	●	required	
	0107-4 Distribution System location	●	●	●	●	required	
	0107-5 Distribution System code	●	●	●	●	required	
	0107-6 SSVSAC	●	●	●	●	required	
	0107-7 SSVSLEHNO	●	●	●	●	required	
	0107-8 SP_2L	●	●	●	●	required	
0107	0107-9 Sewer Pipe Length	●	●	●	●	required	
	0107-10 SP_2L	●	●	●	●	required	
0107	0107-11 SP_2L	●	●	●	●	required	
	0107-12 SP_2L	●	●	●	●	required	

FFA Kola Road Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(†)	Remarks	
		Updated	Ongoing	Not yet	No data			
0101	0101-1 SP_ACV	●	●	●	●	required		
	0101-2 Sewer Pipe diameters	●	●	●	●	required		
	0101-3 SP_TYPR	●	●	●	●	required		
	0101-4 SP_MAKR	●	●	●	●	required		
	0101-5 SP_DATE	●	●	●	●	required		
	0101-7 SP_SLAPE	●	●	●	●	required		
	0101-8 SP_CONN1	●	●	●	●	required		
	0101-9 SP_CONN2	●	●	●	●	required		
	0101-20 SP_LINK	●	●	●	●	required		
	0201	Graphus Leakage location	●	●	●	●	Daily	
		0201-1 ID	●	●	●	●	Daily	
		0201-2 Leakage Type	●	●	●	●	Daily	
		0201-3 Status of Leak	●	●	●	●	Daily	
		0201-4 Location	●	●	●	●	Daily	
		0201-5 Condition	●	●	●	●	Daily	
0201-6 Asset type		●	●	●	●	required		
0201-7 Asset Size		●	●	●	●	required		
0201-8 Asset Material		●	●	●	●	required		
0201-9 Date of survey		●	●	●	●	Daily		
0301	Graphus Flow meters	●	●	●	●	required		
	0301-1 ID	●	●	●	●	required		
	0301-2 Networks	●	●	●	●	required		
	0301-3 Systems	●	●	●	●	required		
	0301-4 Location	●	●	●	●	required		
	0301-5 Size	●	●	●	●	required		
	0301-6 Date of Installation	●	●	●	●	required		
	0301-7 Last maintenance Date	●	●	●	●	required		
	0301-8 Logging	●	●	●	●	required		
	0301-9 Flow meter Notes	●	●	●	●	required		
0302	Graphus Feeder pipes (service pipes)	●	●	●	●	required		
	0302-1 PipeID	●	●	●	●	required		
	0302-2 Pipe material	●	●	●	●	required		
	0302-3 Pipe size	●	●	●	●	required		
	Graphus Water meter	●	●	●	●	Daily		
	0303-1 HouseID	●	●	●	●	Daily		
	0303-2 Customer's Name	●	●	●	●	Daily		
	0303-3 MeterID	●	●	●	●	Daily		
	0303-4 Status of Meter (whether working, banned etc)	●	●	●	●	Daily		
	0303-5 Manufacturer	●	●	●	●	Daily		
0303	0303-6 Size of Meter	●	●	●	●	Daily		
	0303-7 Date of Installation	●	●	●	●	Daily		
	0303-8 Lot Number	●	●	●	●	Daily		
	0303-9 Comments	●	●	●	●	Daily		
	2. Water Source information		●	●	●	required		
	0401	Graphus Bore holes	●	●	●	●	required	
		0401-1 Borehole ID	●	●	●	●	-	
		0401-2 Borehole Type	●	●	●	●	-	
		0401-3 Well depth(m)	●	●	●	●	required	
		0401-4 Head	●	●	●	●	-	
0401-5 Head Loss		●	●	●	●	-		
0401-6 Pump ID		●	●	●	●	-		
0401-7 Location		●	●	●	●	required		
0401-8 Manufacturer		●	●	●	●	-		
0401-9 Serial No		●	●	●	●	-		
0401-10 Flow Rate		●	●	●	●	required		
0401-11 Static Water Level		●	●	●	●	required		
0401-12 Dynamic Water Level		●	●	●	●	required		
0401-13 Date of Pump Installed		●	●	●	●	required		
0401-14 Date of last maintenance		●	●	●	●	required		
0401-15 Age	●	●	●	●	required			
0401-16 Status	●	●	●	●	required			
3. Pump Station information		●	●	●	required			
0402	Graphus Pump station	●	●	●	●	required		
	0402-1 Station ID	●	●	●	●	-		
	0402-2 Unit name	●	●	●	●	required		
	0402-3 Station type	●	●	●	●	required		
	0402-4 Location	●	●	●	●	required		
	0402-5 Age	●	●	●	●	required		
	0402-6 Status	●	●	●	●	required		
	0402-7 Power Usage (KWh)	●	●	●	●	required		
	0402-8 Number of pump	●	●	●	●	required		
	4. Service reservoir information		●	●	●	required		
0403	Graphus Service reservoir	●	●	●	●	required		
	0403-1 Service reservoir name	●	●	●	●	-		
	0403-2 Seawater of service reservoir	●	●	●	●	-		
	0403-3 Elevation of service reservoir	●	●	●	●	required		
	0403-4 Capacity of service reservoir	●	●	●	●	required		
	0403-5 H.W.L., L.W.L.	●	●	●	●	required		
	0403-6 Date of last maintenance	●	●	●	●	required		
0404	Graphus Distribution area of source	●	●	●	●	required		

FFA Kola Road Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)1	Remarks
	6. Other informations	Updated	Ongoing	Not yet	No data		
0405	Graphis Water quality (Free-spool observation)			●	●	Daily / Monthly	
	0405-1 Water Quality Point No.			●	●	Daily / Monthly	
	0405-2 Location Name			●	●	Daily / Monthly	
	0405-3 Date of Survey			●	●	Daily / Monthly	
	0405-4 Source name			●	●	Daily / Monthly	
	0405-5 Source Type			●	●	Daily / Monthly	
	0405-6 Catchment condition			●	●	Daily / Monthly	
	0405-7 Catchment area(hectares)			●	●	Daily / Monthly	
	0405-8 Flow Rate (L/s)			●	●	Daily / Monthly	
	0405-9 Chlorine Demand (mg/10L)			●	●	Daily / Monthly	
0501	0405-10 Hardness (mg/L)			●	●	Daily / Monthly	
	0405-11 Turbidity (NTU)			●	●	Daily / Monthly	
	5. Customer's information						
	0405-1 Customer ID			●	●	Daily	
	0405-2 Customer's name			●	●	Daily	
	0405-3 House ID			●	●	Daily	
	0405-4 Type Of Account			●	●	Daily	
	0405-5 Boundary of plot (land)			●	●	required	
	0405-6 Customer's status			●	●	Daily	
	*1						

The term of "Required" indicates the irregular update work.

For example, such as "updating, if ten information sheets accumulate."

Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.

Lenggakiki DMA Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)1	Remarks
	1. Distribution Facility information	Updated	Ongoing	Not yet	No data		
0101	Graphis Water distribution pipes		●			required	
	0101-1 Pipe ID		●	●		required	
	0101-2 Networks		●	●		required	
	0101-3 Systems		●	●		required	
	0101-4 Pipe material		●	●		required	
	0101-5 Pipe diameters		●	●		required	
	0101-6 Pipe length		●	●		required	
	0101-7 Pipe Depth		●	●		required	
	0101-8 Pipe Use		●	●		required	
	0101-9 Completion year		●	●		required	No records have been kept at all
0102	0101-10 Date of last maintenance		●	●		required	No records have been kept at all
	0101-11 Date of Replacement / Rehabilitation		●	●		required	No records have been kept at all
	0101-12 Date of Repairing		●	●		required	No records have been kept at all
	0101-13 Date of Leakage detection		●	●		required	No records have been kept at all
	0101-14 Pipe Notes		●	●		required	No records have been kept at all
	Graphis Shunt valve (gate valve)		●			required	
	0102-1 Valve ID		●	●		required	
	0102-2 Networks		●	●		required	
	0102-3 Systems		●	●		required	
	0102-4 Valve material		●	●		required	
0103	0102-5 Valve size		●	●		required	
	0102-6 Depth		●	●		required	
	0102-7 Direction of turn		●	●		required	
	0102-8 Valve status		●	●		required	
	0102-9 Date of installation		●	●		required	
	0102-10 Date of last maintenance		●	●		required	
	0102-11 Valve Notes		●	●		required	
	Graphis Hydrant		●			required	
	0103-1 Hydrant ID		●	●		required	
	0103-2 Networks		●	●		required	
0104	0103-3 Systems		●	●		required	
	0103-4 Hydrant type		●	●		required	
	0103-5 Hydrant diameters		●	●		required	
	0103-6 Date of installation		●	●		required	
	0103-7 Last maintenance Date		●	●		required	No records have been kept at all
	0103-8 Hydrant Notes		●	●		required	No records have been kept at all
	Graphis Air valve		●			required	
	0104-1 Air Valve ID		●	●		required	
	0104-2 Networks		●	●		required	
	0104-3 Systems		●	●		required	
0105	0104-4 Air Valve size		●	●		required	
	0104-5 Date of installation		●	●		required	
	0104-6 Last maintenance Date		●	●		required	No records have been kept at all
	0104-7 Air Valve Notes		●	●		required	No records have been kept at all
	Graphis Water pipe bridge		●			required	
	0105-1 ID		●	●		required	
	0105-2 Length		●	●		required	
	0105-3 Pipe material		●	●		required	
	0105-4 Last maintenance Date		●	●		required	
	0105-5 Bridge Name		●	●		required	
0106	0105-6 Bridge material		●	●		required	
	Graphis Sewer Manholes		●			required	
	0106-1 Sequential number		●	●		required	
	0106-2 Distribution System number		●	●		required	
	0106-3 Distribution System name		●	●		required	
	0106-4 Distribution System location		●	●		required	
	0106-5 Distribution System code		●	●		required	
	0106-6 SSVSAC		●	●		required	
	0106-7 SSVSLIBENO		●	●		required	
	0106-8 SMH number		●	●		required	
0107	0106-9 SMH type		●	●		required	
	0106-10 SMH TL		●	●		required	
	0106-11 SMH RL		●	●		required	
	0106-12 SMH size		●	●		required	
	0106-13 SMH date		●	●		required	
	Graphis Sewer Pipelines		●			required	
	0107-1 Sequential number		●	●		required	
	0107-2 Distribution System number		●	●		required	
	0107-3 Distribution System name		●	●		required	
	0107-4 Distribution System location		●	●		required	
0107	0107-5 Distribution System code		●	●		required	
	0107-6 SSVSAC		●	●		required	
	0107-7 SSVSLIBENO		●	●		required	
	0107-8 SP_NO		●	●		required	
	0107-9 Sewer Pipe Length		●	●		required	
	0107-10 SP_SIL		●	●		required	
	0107-11 SP_EIL		●	●		required	
	*1						
	The term of "Required" indicates the irregular update work.						
	For example, such as "updating, if ten information sheets accumulate."						
	Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.						
	And it will indicate by an operation manual.						

Lenggakiki DMA Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update(*)1	Remarks
	6. Other informations	Updated	Ongoing	Not yet	No data		
0107	Graphis SP_ACV		●			required	
	0107-1 Sewer Pipe diameters		●	●		required	
	0107-2 SP_TYPE		●	●		required	
	0107-3 SP_MAKB		●	●		required	
	0107-4 SP_DATE		●	●		required	
	0107-5 SP_SLOPB		●	●		required	
	0107-6 SP_CONNNO		●	●		required	
	0107-7 SP_CONNNO		●	●		required	
	0107-8 SP_LINX		●	●		required	
	0107-9 SP_LINX		●	●		required	
0201	Graphis Leakage location		●			Daily	
	0201-1 ID		●	●		Daily	
	0201-2 Leakage Type		●	●		Daily	
	0201-3 Status of Leak		●	●		Daily	
	0201-4 Location		●	●		Daily	
	0201-5 Condition		●	●		Daily	
	0201-6 Asset type		●	●		required	
	0201-7 Asset Size		●	●		required	
	0201-8 Asset Material		●	●		required	
	0201-9 Date of survey		●	●		Daily	
0301	Graphis Flow meters		●			required	
	0301-1 ID		●	●		required	
	0301-2 Networks		●	●		required	
	0301-3 Systems		●	●		required	
	0301-4 Location		●	●		required	
	0301-5 Size		●	●		required	
	0301-6 Date of installation		●	●		required	
	0301-7 Last maintenance Date		●	●		required	
	0301-8 Logging		●	●		required	
	0301-9 Flow meter Notes		●	●		required	
0302	Graphis Feeder pipes (service pipes)		●			required	
	0302-1 PipeID		●	●		required	
	0302-2 Pipe material		●	●		required	
	0302-3 Pipe size		●	●		required	
	Graphis Water meter		●			Daily	
	0303-1 HouseID		●	●		Daily	
	0303-2 Customer's Name		●	●		Daily	
	0303-3 MeterID		●	●		Daily	
	0303-4 Status of Meter (whether working, buried etc.)		●	●		required	
	0303-5 Manufacturer		●	●		required	
0403	0303-6 Size of Meter		●	●		required	
	0303-7 Date of installation		●	●		required	
	0303-8 Lot Number		●	●		required	
	0303-9 Comment		●	●		required	
	4. Water Source information						
	Graphis Bore holes		●			required	
	0403-1 Borehole ID		●	●		-	
	0403-2 Borehole Type		●	●		-	
	0403-3 Well depth(m)		●	●		required	
	0403-4 Head		●	●		-	
	0403-5 Head loss		●	●		-	
	0403-6 Pump ID		●	●		-	
	0403-7 Location		●	●		required	
	0403-8 Manufacturer		●	●		required	
0404	0403-9 Serial No		●	●		-	
	0403-10 Flow Rate		●	●		required	
	0403-11 Static Water Level		●	●		required	
	0403-12 Dynamic Water Level		●	●		required	
	0403-13 Date of Pump Installed		●	●		required	
	0403-14 Date of last maintenance		●	●		required	
	0403-15 Age		●	●		required	
	0403-16 Status		●	●		required	
	3. Pump Station information						
	Graphis Pump station		●			required	
0405	0405-1 Station ID		●	●		-	
	0405-2 Unit name		●	●		required	
	0405-3 Station type		●	●		required	
	0405-4 Location		●	●		required	
	0405-5 Age		●	●		required	
	0405-6 Status		●	●		required	
	0405-7 Power Usage (KWh)		●	●		required	
	0405-8 Number of pump		●	●		required	
	4. Service reservoir information						
	Graphis Service reservoir		●			required	
0406	0406-1 Service reservoir name		●	●		-	
	0406-2 Structure of service reservoir		●	●		-	
	0406-3 Elevation of service reservoir		●	●		required	
	0406-4 Capacity of service reservoir		●	●		required	
	0406-5 H.W.L., L.W.L.		●	●		required	
	0406-6 Date of last maintenance		●	●		required	
	0406-7 Distribution area of source		●	●		required	
	0406-8 Area name		●	●		required	
	*1						
	The term of "Required" indicates the irregular update work.						
	For example, such as "updating, if ten information sheets accumulate."						
	Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.						
	And it will indicate by an operation manual.						

Tasahe A & B DMA Input item of GIS

No.	GIS subject	Updated	Progress of Database	Frequency of update(†)	Remarks
	1. Distribution Facility information	Updated	Ongoing	Not yet	No data
0101	Graphus Water distribution pipes	●		required	
	0101-1 Pipe ID	●	●	required	
	0101-2 Networks	●		required	
	0101-3 Systems	●		required	
	0101-4 Pipe material	●		required	
	0101-5 Pipe diameters	●		required	
	0101-6 Pipe length	●		required	
	0101-7 Pipe Depth	●		required	
	0101-8 Pipe Use	●		required	
	0101-9 Completion year	●		required	No records have been kept at all
	0101-10 Date of last maintenance	●		required	No records have been kept at all
	0101-11 Date of Replacement / Rehabilitation	●	●	required	No records have been kept at all
	0101-12 Date of Repairing	●		required	No records have been kept at all
	0101-13 Date of Leakage detection	●	●	required	
0102	Graphus Shance valve (gate valve)	●		required	
	0102-1 Valve ID	●	●	required	
	0102-2 Networks	●		required	
	0102-3 Systems	●		required	
	0102-4 Valve material	●		required	
	0102-5 Valve size	●		required	
	0102-6 Depth	●	●	required	
	0102-7 Direction of turn	●		required	
	0102-8 Valve status	●		required	
	0102-9 Date of Installation	●		required	
	0102-10 Date of last maintenance	●		required	
	0102-11 Valve Notes	●		required	
	Graphus Hydrant	●		required	
	0103-1 Hydrant ID	●	●	required	
0103	0103-2 Networks	●		required	
	0103-3 Systems	●		required	
	0103-4 Hydrant type	●		required	
	0103-5 Hydrant diameters	●		required	
	0103-6 Date of Installation	●		required	
	0103-7 Last maintenance Date	●		required	No records have been kept at all
	0103-8 Hydrant Notes	●		required	
	Graphus Air valve	●		required	
	0104-1 Air Valve ID	●	●	required	
	0104-2 Networks	●		required	
	0104-3 Systems	●		required	
	0104-4 Air Valve size	●		required	
	0104-5 Date of Installation	●		required	
0104	0104-6 Last maintenance Date	●		required	No records have been kept at all
	0104-7 Air Valve Notes	●		required	
	Graphus Water pipe bridge	●		required	
	0105-1 ID	●		required	
	0105-2 Length	●		required	
	0105-3 Pipe material	●		required	
	0105-4 Last maintenance Date	●		required	
	0105-5 Bridge Name	●		required	
	0105-6 Bridge material	●		required	
	Graphus Sewer Manholes	●		required	
	0106-1 Sequential number	●		required	
	0106-2 Distribution System number	●		required	
	0106-3 Distribution System name	●		required	
	0106-4 Distribution System location	●		required	
0106	0106-5 Distribution System code	●		required	
	0106-6 SSVSAC	●		required	
	0106-7 SSVSLBENO	●		required	
	0106-8 SMH number	●		required	
	0106-9 SMH type	●		required	
	0106-10 SMH_LL	●		required	
	0106-11 SMH_RL	●		required	
	0106-12 SMH_size	●		required	
	0106-13 SMH_date	●		required	
	Graphus Sewer Pipelines	●		required	
	0107-1 Sequential number	●		required	
	0107-2 Distribution System number	●		required	
	0107-3 Distribution System name	●		required	
	0107-4 Distribution System location	●		required	
0107	0107-5 Distribution System code	●		required	
	0107-6 SSVSAC	●		required	
	0107-7 SSVSLBENO	●		required	
	0107-8 SP_AO	●		required	
	0107-9 Sewer Pipe Length	●		required	
	0107-10 SP_SIL	●		required	
	0107-11 SP_EIL	●		required	

Tasahe A & B DMA Input item of GIS

No.	GIS subject	Updated	Progress of Database	Frequency of update(†)	Remarks
	1. Distribution Facility information	Updated	Ongoing	Not yet	No data
0201	Graphus SP_ACV	●		required	
	0107-13 Sewer Pipe diameters	●		required	
	0107-14 SP_Type	●		required	
	0107-15 SP_MACH	●		required	
	0107-16 SP_DATE	●		required	
	0107-17 SP_ALOPE	●		required	
	0107-18 SP_CONNCO	●		required	
	0107-19 SP_CONNEC	●		required	
	0107-20 SP_LINK	●		required	
	Graphus Leakage location	●		required	
	0201-1 ID	●		required	
	0201-2 Leakage Type	●		required	
	0201-3 Status of Leak	●		required	
	0201-4 Location	●		required	
0301	0201-5 Condition	●		required	
	0201-6 Asset type	●		required	
	0201-7 Asset Size	●		required	
	0201-8 Asset Material	●		required	
	0201-9 Date of survey	●		required	
	Graphus Flow meters	●		required	
	0301-1 ID	●	●	required	
	0301-2 Networks	●		required	
	0301-3 Systems	●		required	
	0301-4 Location	●		required	
	0301-5 Size	●		required	
	0301-6 Date of Installation	●		required	
	0301-7 Last maintenance Date	●		required	
	0301-8 Logging	●		required	
0302	0301-9 Flow meter Notes	●		required	
	Graphus Feeder pipes (service pipes)	●		required	
	0302-1 PipelID	●	●	required	
	0302-2 Pipe material	●		required	
	0302-3 Pipe size	●		required	
	Graphus Water meter	●		required	
	0303-1 MeterID	●	●	required	
	0303-2 Customer's Name	●		required	
	0303-3 MeterID	●		required	
	0303-4 Status of Meter (whether working, banned etc)	●		required	
	0303-5 Manufacturer	●		required	
	0303-6 Size of Meter	●		required	
	0303-7 Date of Installation	●		required	
	0303-8 Lot Number	●		required	
	0303-9 Comments	●		required	
0401	2. Water Source information	●		required	
	Graphus Bore holes	●		required	
	0401-1 Borehole ID	●		required	
	0401-2 Borehole Type	●		required	
	0401-3 Well depth(m)	●		required	
	0401-4 Hand	●		required	
	0401-5 Hand Man	●		required	
	0401-6 Pump ID	●		required	
	0401-7 Location	●		required	
	0401-8 Manufacture	●		required	
	0401-9 Serial No	●		required	
	0401-10 Flow Rate	●		required	
	0401-11 State Water Level	●		required	
	0401-12 Dynamic Water Level	●		required	
0402	0401-13 Date of Pump Installed	●		required	
	0401-14 Date of last maintenance	●		required	
	0401-15 Age	●		required	
	0401-16 Status	●		required	
	3. Pump Station information	●		required	
	Graphus Pump station	●		required	
	0402-1 Station ID	●		required	
	0402-2 Unit name	●		required	
	0402-3 Station type	●		required	
	0402-4 Location	●		required	
	0402-5 Age	●		required	
	0402-6 Status	●		required	
	0402-7 Power Usage (KWh)	●		required	
	0402-8 Number of pump	●		required	
0403	4. Service reservoir information	●		required	
	Graphus Service reservoir	●		required	
	0403-1 Service reservoir name	●		required	
	0403-2 Structure of service reservoirs	●		required	
	0403-3 Elevation of service reservoirs	●		required	
	0403-4 Capacity of service reservoir	●		required	
	0403-5 H.W.L, L.W.L	●		required	
	0403-6 Date of last maintenance	●		required	
	Graphus Distribution area of source	●		required	
	0404-1 Area name	●		required	

Tasahe A & B DMA Input item of GIS

No.	GIS subject	Updated	Progress of Database	Frequency of update(†)	Remarks
	6. Other informations	Updated	Ongoing	Not yet	No data
0405	Graphus Water quality (Point-point observation)	●		Daily / Monthly	
	0405-1 Water Quality Point No.	●		Daily / Monthly	
	0405-2 Location Name	●		Daily / Monthly	
	0405-3 Date of Survey	●		Daily / Monthly	
	0405-4 Source name	●		Daily / Monthly	
	0405-5 Source Type	●		Daily / Monthly	
	0405-6 Treatment condition	●		Daily / Monthly	
	0405-7 Treatment used (location)	●		Daily / Monthly	
	0405-8 Flow Rate (L/s)	●		Daily / Monthly	
	0405-9 Chlorine Demand (mg/10L)	●		Daily / Monthly	
	0405-10 Turbidity (mg/L)	●		Daily / Monthly	
	0405-11 Turbidity (NTU)	●		Daily / Monthly	
	5. Customer's information	●		Daily	
	0405-1 Customer ID	●		Daily	
0501	0405-2 Customer's name	●		Daily	
	0405-3 House ID	●		Daily	
	0405-4 Type Of Account	●		Daily	
	0405-5 Boundary of plot (land)	●		required	
	0405-6 Customer's status	●		Daily	

† The term of "Required" indicates the regular update work.
 For example, such as "updating, if ten information sheets accumulate."
 Since it is an ambiguous definition, SW and ICA expert team will discuss and decide clearly from now on.
 And it will indicate by an operator's manual.

West Kola Ridge A DMA Input item of GIS

No.	GIS subject	Updated	Progress of Database	Frequency of update(†)	Remarks	
	1. Distribution Facility information	Updated	Ongoing	Not yet	No data	
0101	Graphus Water distribution pipes	●			required	
	0101-1 Pipe ID	●	●		required	
	0101-2 Networks	●			required	
	0101-3 Systems	●			required	
	0101-4 Pipe material	●			required	
	0101-5 Pipe diameters	●			required	
	0101-6 Pipe length	●			required	
	0101-7 Pipe Depth	●			required	
	0101-8 Pipe Use	●			required	
	0101-9 Completion year	●		●	required	No records have been kept at all
	0101-10 Date of last maintenance	●			required	No records have been kept at all
	0101-11 Date of Replacement / Rehabilitation	●		●	required	No records have been kept at all
	0101-12 Date of Repairing	●		●	required	No records have been kept at all
	0101-13 Date of Leakage detection	●	●		required	
0102	Graphus Shance valve (gate valve)	●			required	
	0102-1 Valve ID	●	●		required	
	0102-2 Networks	●			required	
	0102-3 Systems	●			required	
	0102-4 Valve material	●			required	
	0102-5 Valve size	●			required	
	0102-6 Depth	●	●		required	
	0102-7 Direction of turn	●			required	
	0102-8 Valve status	●			required	
	0102-9 Date of Installation	●			required	
	0102-10 Date of last maintenance	●			required	
	0102-11 Valve Notes	●			required	
	Graphus Hydrant	●			required	
	0103-1 Hydrant ID	●	●		required	
0103	0103-2 Networks	●			required	
	0103-3 Systems	●			required	
	0103-4 Hydrant type	●			required	
	0103-5 Hydrant diameters	●			required	
	0103-6 Date of Installation	●			required	
	0103-7 Last maintenance Date	●		●	required	No records have been kept at all
	0103-8 Hydrant Notes	●			required	
	Graphus Air valve	●			required	
0104	0104-1 Air Valve ID	●	●		required	
	0104-2 Networks	●			required	
	0104-3 Systems	●			required	
	0104-4 Air Valve size	●			required	
	0104-5 Date of Installation	●			required	
	0104-6 Last maintenance Date	●		●	required	No records have been kept at all
	0104-7 Air Valve Notes	●			required	
	0105	Graphus Water pipe bridge	●			required
0105-1 ID		●			required	
0105-2 Length		●			required	
0105-3 Pipe material		●			required	
0105-4 Last maintenance Date		●			required	
0105-5 Bridge Name		●			required	
0105-6 Bridge material		●			required	
Graphus Sewer Manholes		●			required	
0106	0106-1 Sequential number	●			required	
	0106-2 Distribution System number	●			required	
	0106-3 Distribution System name	●			required	
	0106-4 Distribution System location	●			required	
	0106-5 Distribution System code	●			required	
	0106-6 SSVSAC	●			required	
	0106-7 SSVSLBENO	●			required	
	0106-8 SMH number	●			required	
	0106-9 SMH type	●			required	
	0106-10 SMH_LL	●			required	
	0106-11 SMH_RL	●			required	
	0106-12 SMH_low	●			required	
	0106-13 SMH_date	●			required	
	Graphus Sewer Pipelines	●			required	
0107	0107-1 Sequential number	●			required	
	0107-2 Distribution System number	●			required	
	0107-3 Distribution System name	●			required	
	0107-4 Distribution System location	●			required	
	0107-5 Distribution System code	●			required	
	0107-6 SSVSAC	●			required	
	0107-7 SSVSLBENO	●			required	
	0107-8 SP_20	●			required	
	0107-9 Sewer Pipe Length	●			required	
	0107-10 SP_SIL	●			required	
	0107-11 SP_SIL	●			required	

West Kola Ridge A DMA Input item of GIS

No.	GIS subject	Progress of Database				Frequency of update ⁽¹⁾	Remarks
		Updated	Ongoing	Not yet	No data		
0201	Graphus SP_ACV				•	required	
	0107-1-3 Sewer Pipe diameters				•	required	
	0107-1-4 SP TYPE				•	required	
	0107-1-5 SP_MAGE				•	required	
	0107-1-6 SP_DATE				•	required	
	0107-1-7 SP_MATERIAL				•	required	
	0107-1-8 SP_CONN				•	required	
	0107-1-9 SP_CONN				•	required	
	0107-20 SP_LINK				•	required	
	Graphus Leakage location	•				Daily	
	0201-1 ID	•				Daily	
	0201-2 Leakage Type	•				Daily	
	0201-3 Status of Leak	•				Daily	
	0201-4 Location	•				Daily	
	0201-5 Condition	•				Daily	
0301	0201-6 Asset type	•				required	
	0201-7 Asset Size	•				required	
	0201-8 Asset Material	•				required	
	0201-9 Date of survey	•				Daily	
	Graphus Flow meters	•				required	
	0301-1 ID	•				required	
	0301-2 Network	•	•			required	
	0301-3 Systems	•				required	
	0301-4 Location	•				required	
	0301-5 Size	•				required	
	0301-6 Date of Installation	•				required	
	0301-7 Last maintenance Date	•				required	
	0301-8 Logging	•				required	
	0301-9 Flow meter Notes	•				required	
0302	Graphus Feeder pipes (service pipes)	•				required	
	0302-1 PipeID	•	•			required	
	0302-2 Pipe material	•				required	
	0302-3 Pipe size	•				required	
	Graphus Water meter	•				Daily	
	0302-1 HouseID	•		•		Daily	
	0302-2 Customer's Name	•				Daily	
	0302-3 MeterID	•				Daily	
	0302-4 Status of Meter (whether working, banned etc)	•					
	0302-5 Manufacturer	•					
	0302-6 Size of Meter	•					
	0302-7 Date of Installation	•					
	0302-8 Lot Number	•					
	0302-9 Comments	•					
	2. Water Source information						
0401	Graphus Bore holes				•	required	
	0401-1 Borehole ID				•	-	
	0401-2 Borehole Type				•	-	
	0401-3 Well depth(m)				•	required	
	0401-4 Head				•	-	
	0401-5 Head Max				•	-	
	0401-6 Pump ID				•	-	
	0401-7 Location				•	required	
	0401-8 Manufacturer				•	-	
	0401-9 Serial No				•	-	
	0401-10 Flow Rate				•	required	
	0401-11 Static Water Level				•	required	
	0401-12 Dynamic Water Level				•	required	
	0401-13 Date of Pump Installed				•	required	
	0401-14 Date of last maintenance				•	required	
	0401-15 Age				•	required	
	0401-16 Status				•	required	
0402	3. Pump Station information						
	Graphus Pump station				•	required	
	0402-1 Station ID				•	-	
	0402-2 Unit name				•	required	
	0402-3 Station type				•	required	
	0402-4 Location				•	required	
	0402-5 Age				•	required	
	0402-6 Status				•	required	
	0402-7 Power Usage (KWh)				•	required	
	0402-8 Number of pump				•	required	
0403	4. Service reservoir information						
	Graphus Service reservoir	•				required	
	0403-1 Service reservoir name	•				-	
	0403-2 Structure of service reservoirs				•	-	
	0403-3 Hierarchy of service reservoirs				•	required	
	0403-4 Capacity of service reservoir				•	required	
	0403-5 H.W.L, L.W.L				•	required	
	0403-6 Date of last maintenance				•	required	
0404	Graphus Distribution area of source				•	required	
	0404-1 Area name				•	required	

West Kola Ridge A DMA Input item of GIS

No.	GIS subject	Progress of Database			Frequency of update ⁽¹⁾	Remarks
		Updated	Ongoing	Not yet		
0405	6. Other informations					
	Graphus	Water quality (Free-of-potat observation)			•	Daily / Monthly
	0405-1	Water Quality Point No.			•	Daily / Monthly
	0405-2	Location Name			•	Daily / Monthly
	0405-3	Date of Survey			•	Daily / Monthly
	0405-4	Source name			•	Daily / Monthly
	0405-5	Source Type			•	Daily / Monthly
	0405-6	Catchment coordinates			•	Daily / Monthly
	0405-7	Catchment area(hectares)			•	Daily / Monthly
	0405-8	Flow Rate (L/s)			•	Daily / Monthly
	0405-9	Chlorine Demand (mg/10L)			•	Daily / Monthly
	0405-10	Hardness (mg/L)			•	Daily / Monthly
	0405-11	Turbidity (NTU)			•	Daily / Monthly
0501	5. Customer's information					
	0405-1	Customer ID			•	Daily
	0405-2	Customer's name			•	Daily
	0405-3	House ID			•	Daily
	0405-4	Type Of Account			•	Daily
	0405-5	Boundary of plot (km²)			•	required
	0405-6	Customer's status			•	Daily

*1 : The term of "Required" indicates the irregular update work.

For example, such as "updating, if an information shows accumulate."

Since it is an ambiguous definition, SIV and RGA expert team will discuss and decide clearly from now on.

And it will indicate by an operation manual.