

Updated WFD Reporting database model diagrams

Jon Maidens, Atkins, WFD Helpdesk, document version 09-02-2010

helpdeskwfd@atkinsglobal.com, jon.maidens@atkinsglobal.com

These model diagrams replace those in Appendix A of the User Guide for WFD Reporting v2.0.

The diagrams have been updated to show

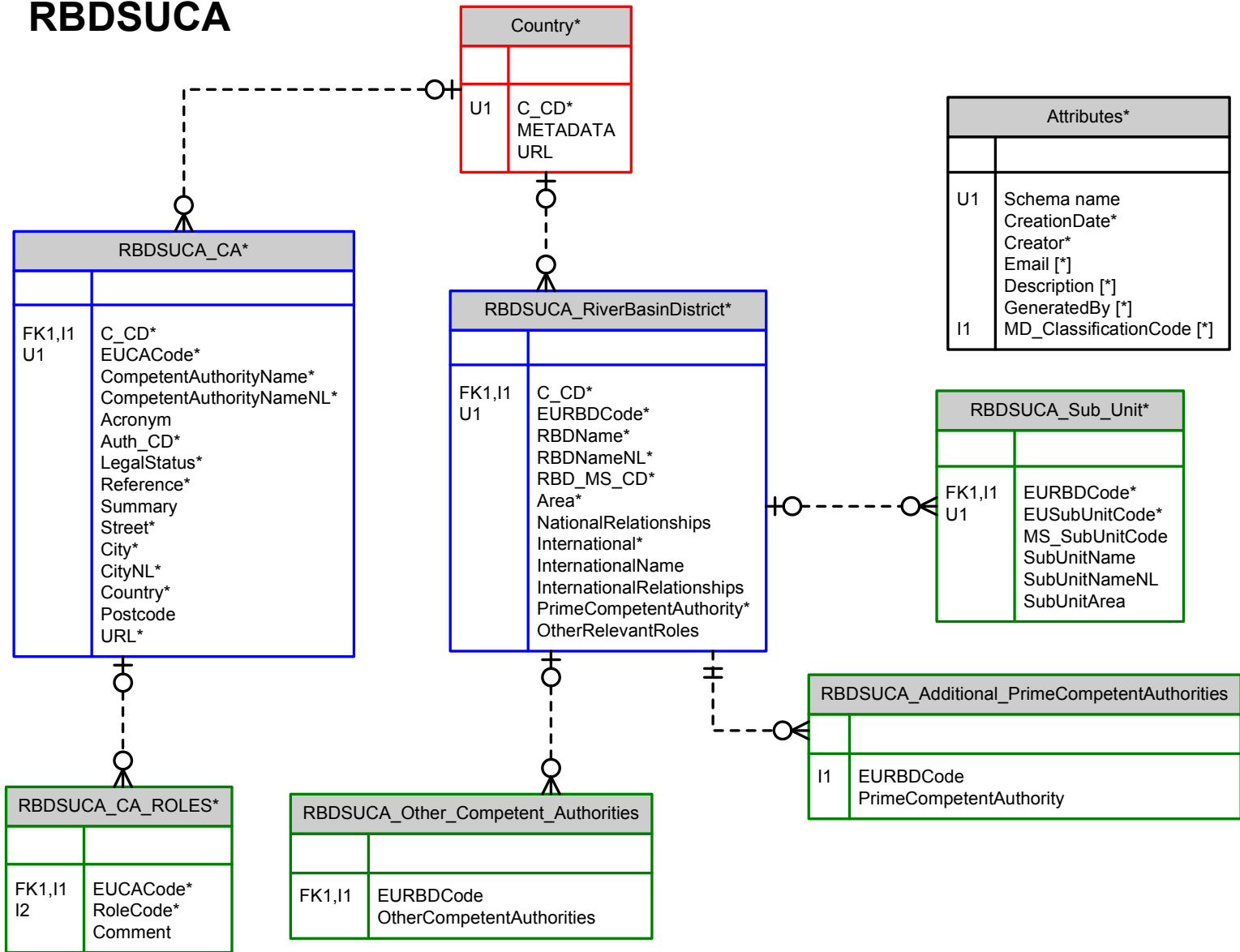
- the required fields in tables of optional information [R]
- choice fields [Chx] structure

The helpdesk log has a section with identified issues relating to the database.

The Access database is only a tool that is provided to support the reporting process but cannot be seen in isolation from the actual schemas and reporting guidance. It is therefore important to consider both the CIS WFD reporting guidance number 21 and the user guide for the schemas as both documents provide important information on the contents of the schemas. Both are available in the WFD reporting resources:

<http://water.eionet.europa.eu/schemas/dir200060ec/resources/>

RBDSUCA



+○---○+ One to one relation
 +○---○< One to many relation

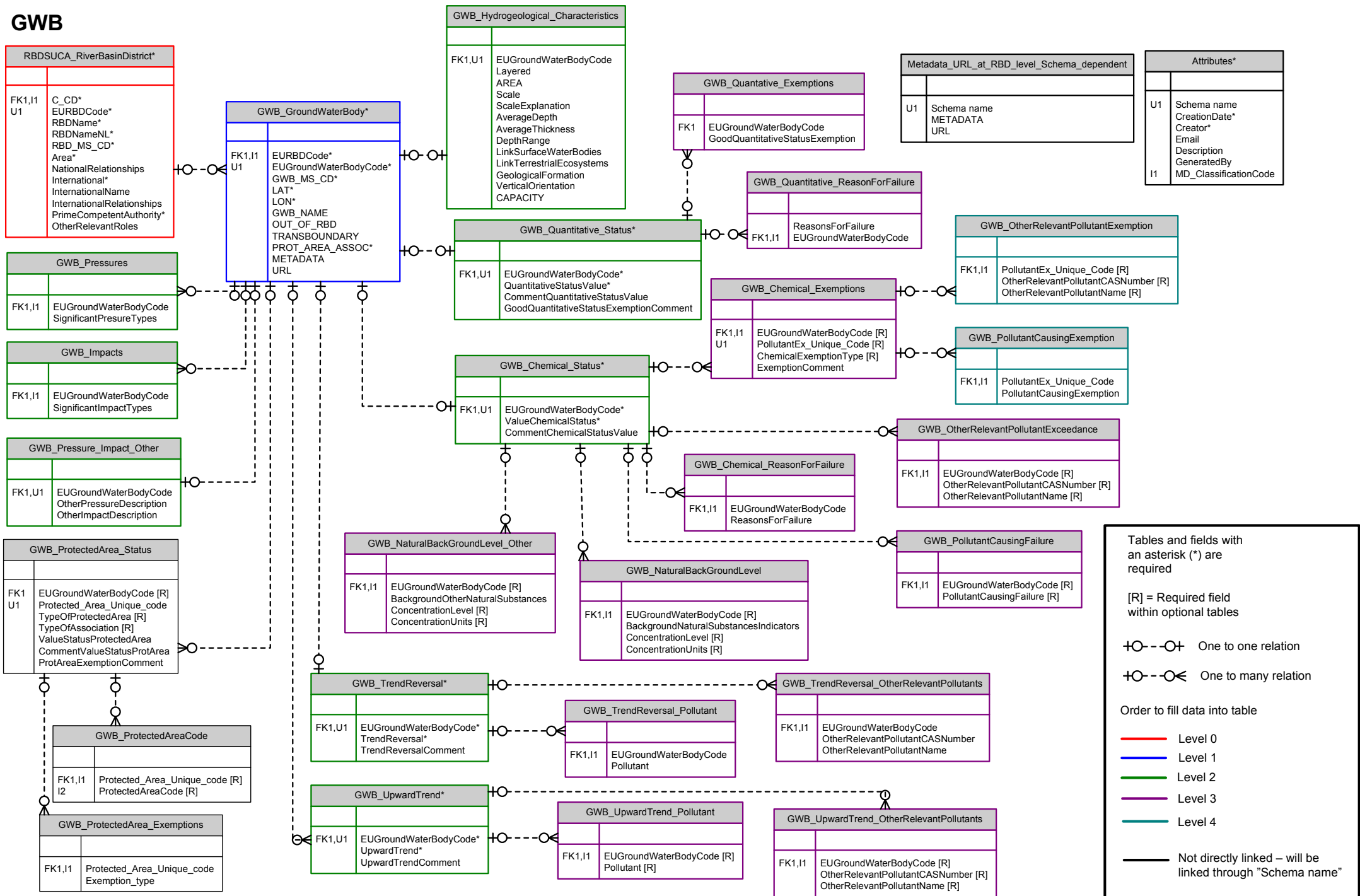
Tables and fields with an asterisk (*) are required

[R] = Required field within optional tables
 Order to fill data into table

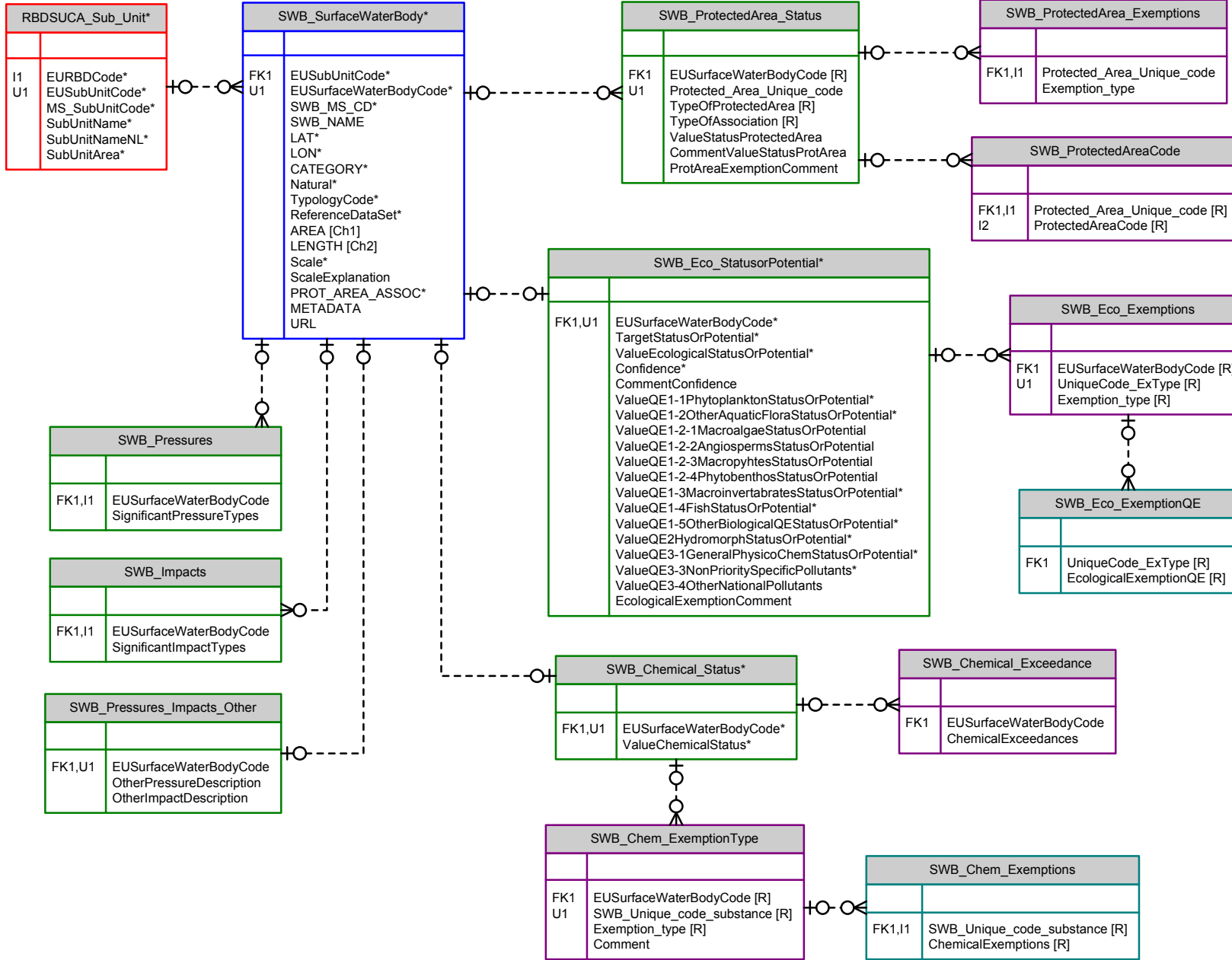
— Level 0
— Level 1
— Level 2

— Not directly linked – will be linked through "Schema name"

GWB



SWB



Tables and fields with an asterisk (*) are required

[R] = Required field within optional tables

⊕ --- ⊕ One to one relation
 ⊕ --- ⊕⊖ One to many relation

Order to fill data into table

- Level 0
- Level 1
- Level 2
- Level 3
- Level 4

— Not directly linked – will be linked through "Schema name"

Attributes*	
U1	Schema name [R] CreationDate* Creator* Email Description GeneratedBy
I1	MD_ClassificationCode

Metadata_URL_at_RBD_level_Schema_dependent	
U1	Schema name METADATA URL

PA – Protected Areas

PA_Protected_Areas*	
FK1,I1 U1	EURBDCode [*] EUProtectedAreaCode [*] PROT_AREA_MS_CD [*] LAT [*] LON [*] PROT_AREA_NAME AREA [Ch1] LENGTH [Ch2] ProtectedAreaType [*] LegislationReference METADATA URL

RBDSUCA_RiverBasinDistrict*	
I1 U1	C_CD* EURBDCode* RBDName* RBDNameNL* RBD_MS_CD* Area* NationalRelationships International* InternationalName InternationalRelationships PrimeCompetentAuthority* OtherRelevantRoles

PA_Legislation*	
FK1,U1	EURBDCode* PA_LEGISLATION*

PA_Reference_Documents	
FK1,I1	EURBDCode [R] ReferenceDescription [R] ReferenceURLLocation [R]

Attributes*	
U1	Schema name CreationDate* Creator* Email Description GeneratedBy
I1	MD_ClassificationCode

Metadata_URL_at_RBD_level_Schema_dependent	
U1	Schema name METADATA URL

Tables and fields with an asterisk (*) are required

[R] = Required field within optional tables

+○--○+ One to one relation

+○--○⊂ One to many relation

Order to fill data into table

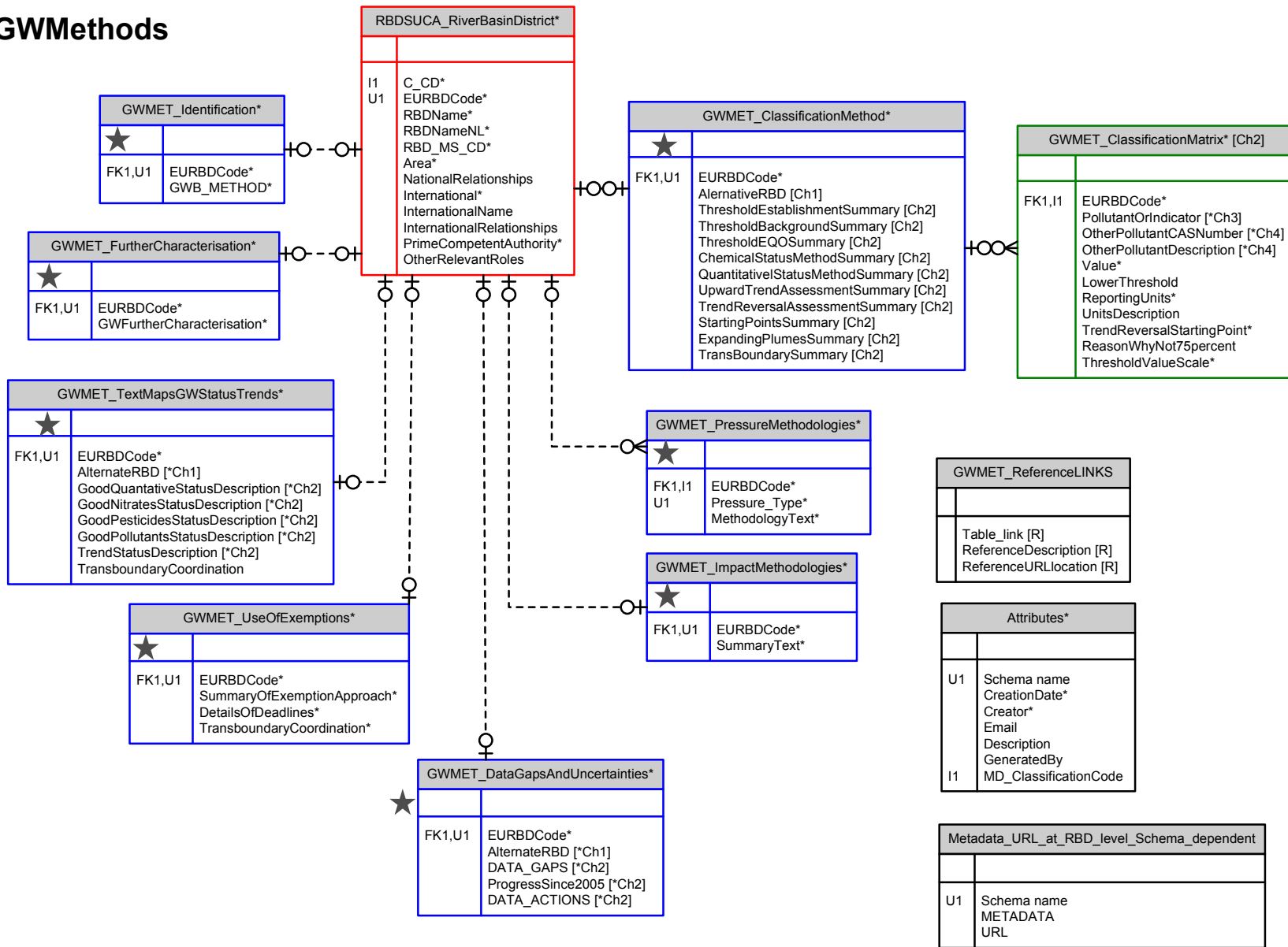
— Level 0

— Level 1

— Level 2

— Not directly linked – will be linked through "Schema name"

GWMMethods



Tables and fields with an asterisk (*) are required

[R] = Required field within optional tables

[Chx] = Choice fields

★ Possible to add metadata description and URL through the "Table_link" in GWMET_ReferenceLINKS

+○--○+ One to one relation

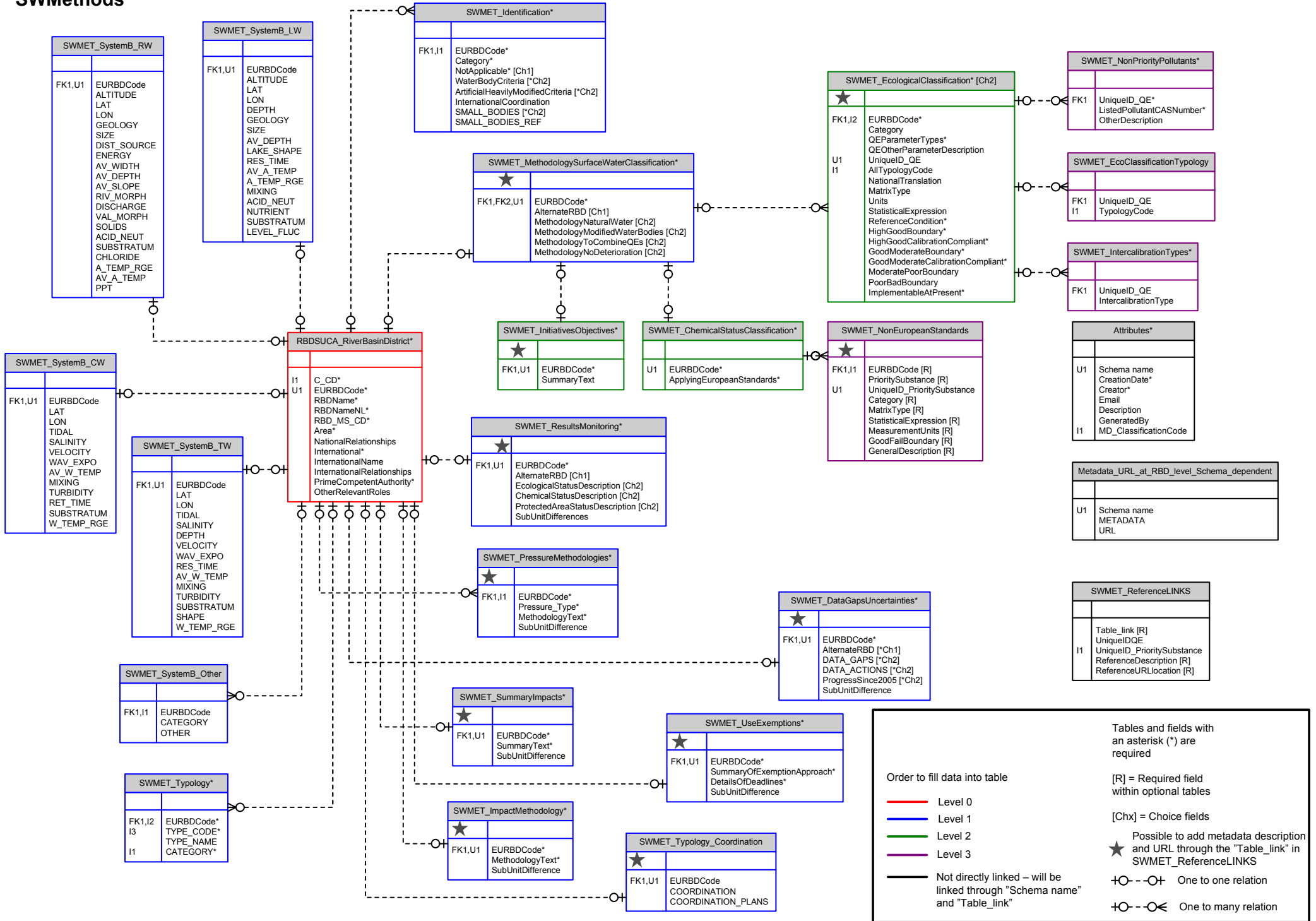
+○--○⊗ One to many relation

Order to fill data into table

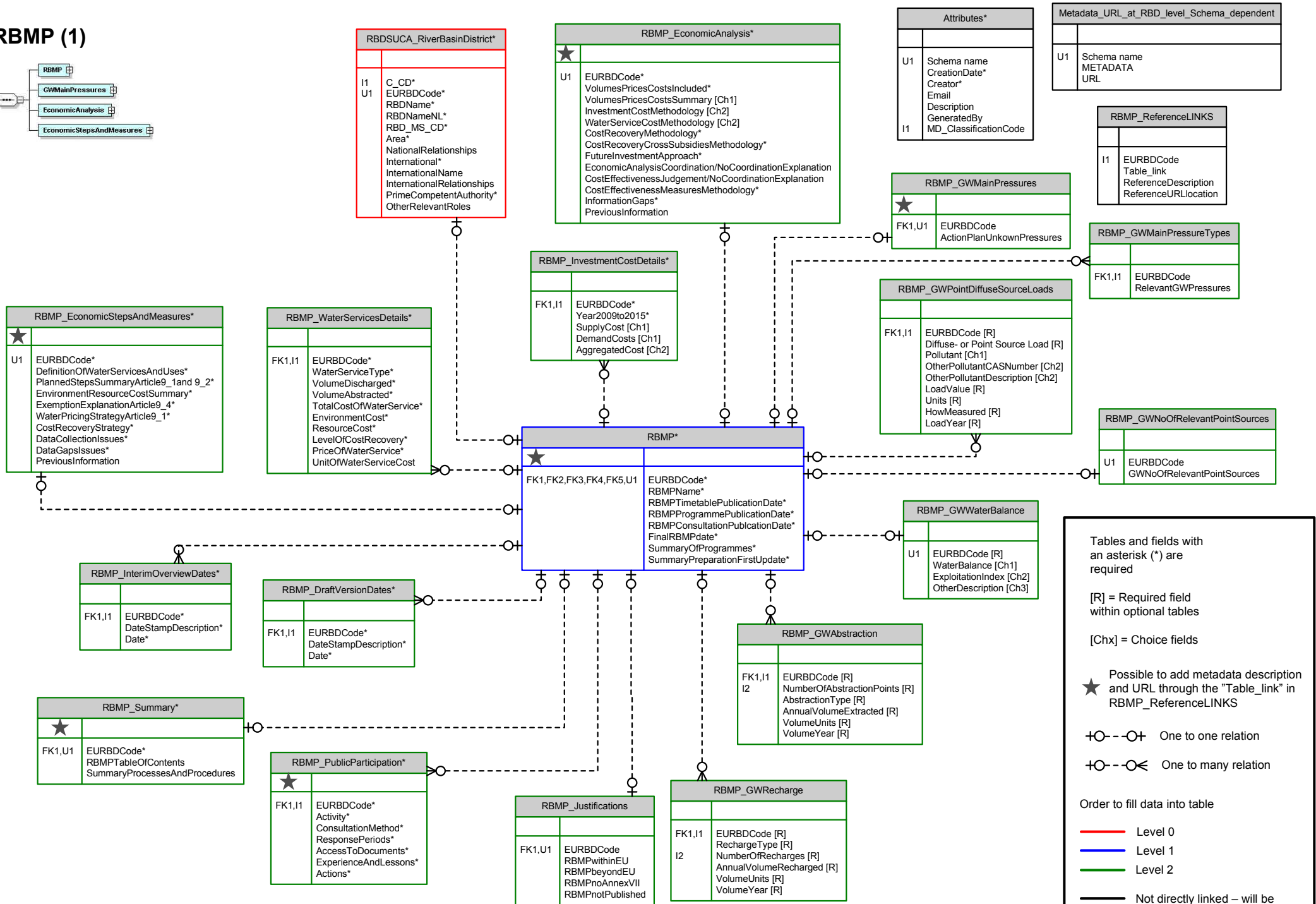
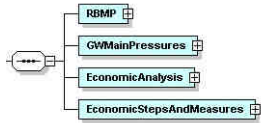
- Level 0
- Level 1
- Level 2

— Not directly linked – will be linked through "Schema name" and "Table_link"

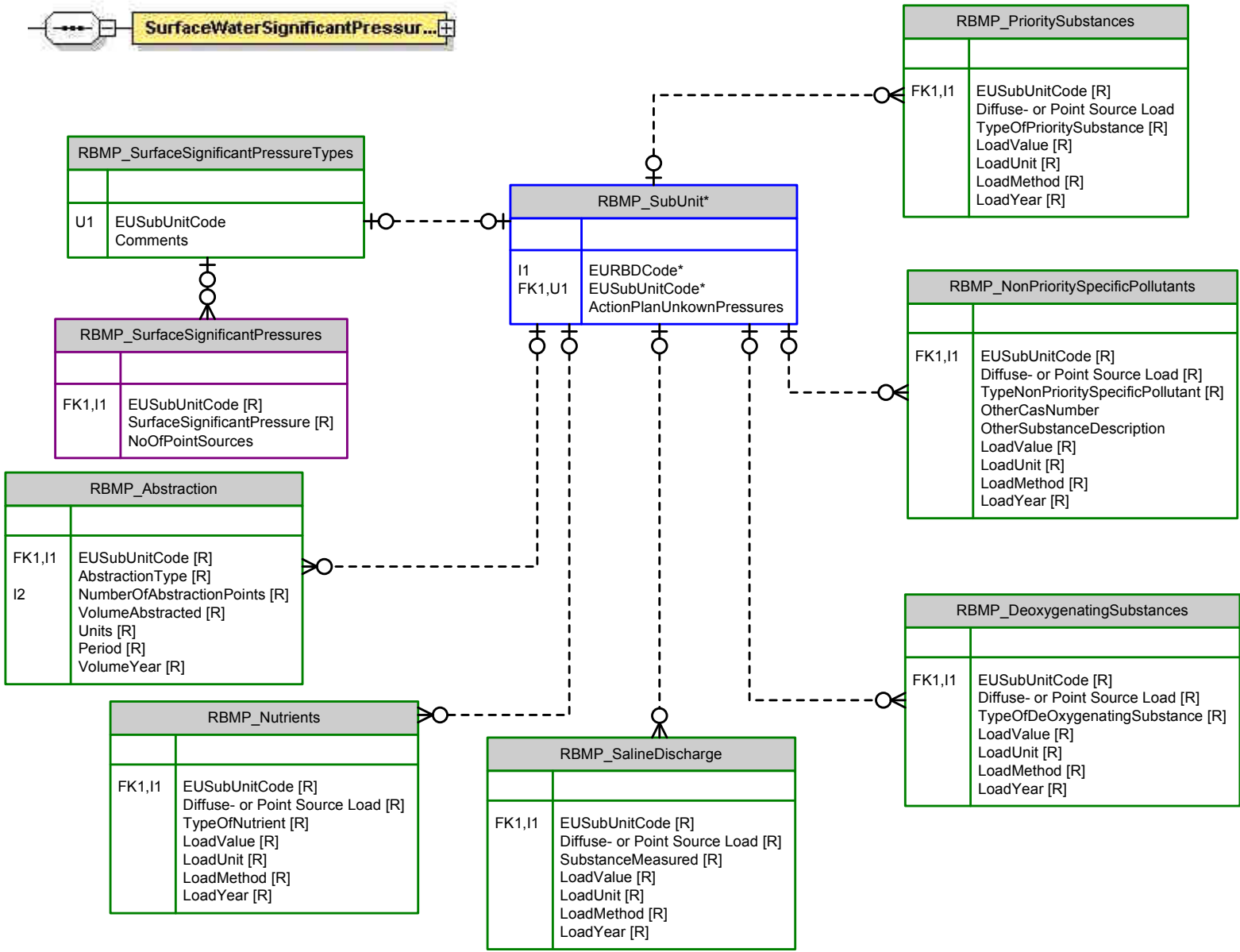
SWMMethods



RBMP (1)



RBMP (2)



Metadata_URL_at_RBD_level_Schema_dependent	
U1	Schema name METADATA URL

Attributes*	
U1	Schema name CreationDate* Creator* Email Description GeneratedBy
I1	MD_ClassificationCode

Tables and fields with an asterisk (*) are required

[R] = Required field within optional tables

+○ -- ○+ One to one relation

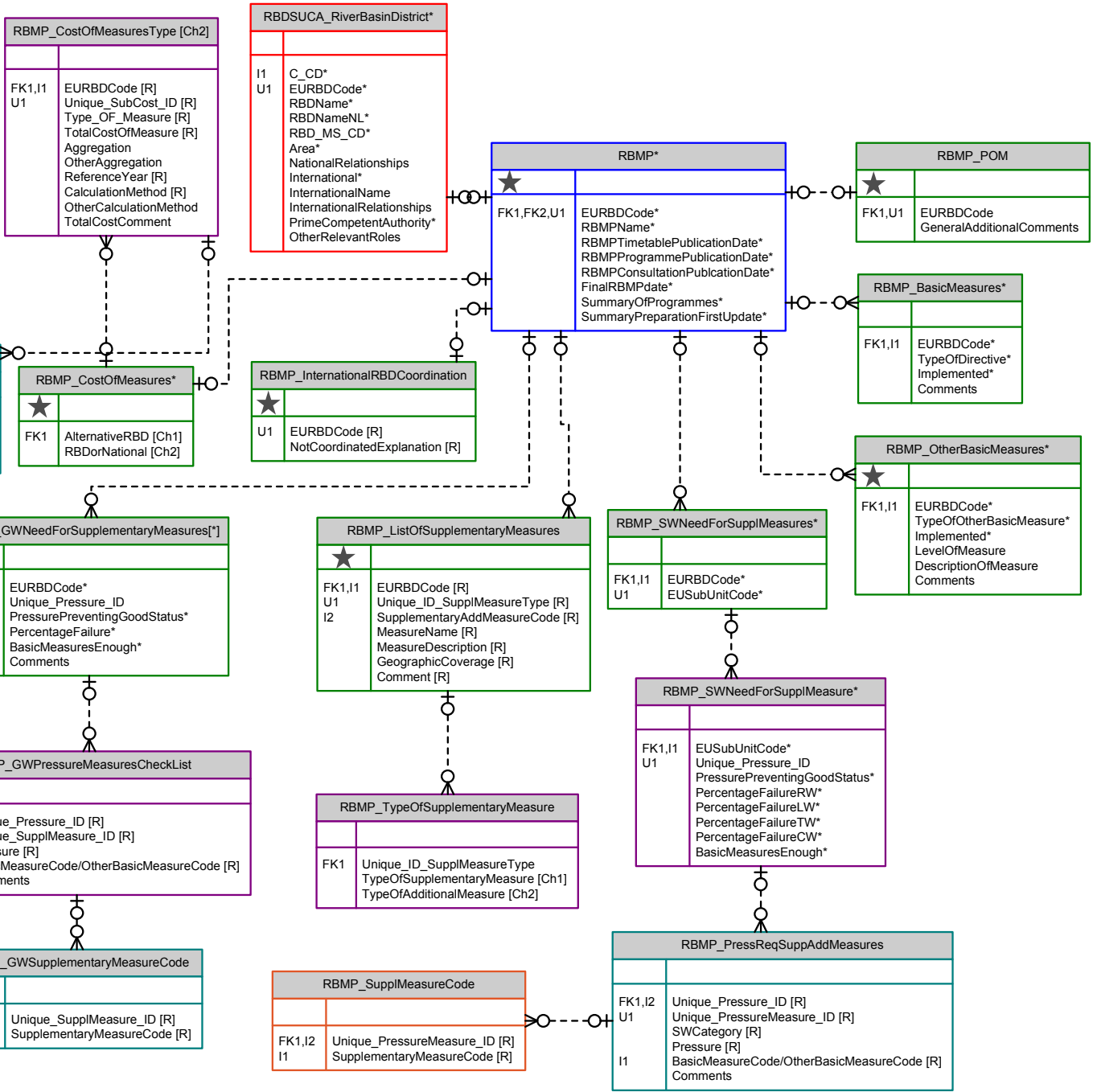
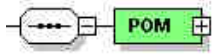
+○ -- ○< One to many relation

Order to fill data into table

- Level 0
- Level 1
- Level 2
- Level 3

— Not directly linked – will be linked through "Schema name"

RBMP (3)



Metadata_URL_at_RBD_level_Schema_dependent	
U1	Schema name METADATA URL

Attributes*	
U1	Schema name CreationDate* Creator* Email Description GeneratedBy MD_ClassificationCode

RBMP_ReferenceLINKS	
I1	EURBDCode Table_link ReferenceDescription ReferenceURLocation

Tables and fields with an asterisk (*) are required

[R] = Required field within optional tables

[Chx] = Choice fields

★ Possible to add metadata description and URL through the "Table_link" in RBMP_ReferenceLINKS

+○--○+ One to one relation

+○--○< One to many relation

Order to fill data into table

- Level 0
- Level 1
- Level 2
- Level 3
- Level 4
- Level 5

— Not directly linked – will be linked through "Schema name"

Monitoring

RBDSUCA_RiverBasinDistrict*	
FK1,I1 U1	C_CD* EURBDCode* RBDName* RBDNameNL* RBD_MS_CD* Area* NationalRelationships International* InternationalName InternationalRelationships PrimeCompetentAuthority* OtherRelevantRoles

MON_Monitoring*	
FK1,U1	EURBDCode* REPORTING_LEVEL* REPORTING_LEVEL_DESCRIPTION METADATA URL

MON_SWQualityElements	
FK1,I1	EURBDCode [R] QE_CD [R] CATEGORY [R] SAMPLING_METHOD ANALYSIS_METHOD STANDARDS CONFIDENCE FREQ_METHOD

Attributes*	
U1	Schema name CreationDate* Creator* Email Description GeneratedBy MD_ClassificationCode
I1	

MON_SWInvestProgrammes*	
FK1,U1	EURBDCode* STRATEGY* START_DATE REASON_DELAYED METADATA URL

MON_SWProgrammes*	
FK1,I1 U1	EURBDCode* PROGRAMME_CD* NAME PROGRAMME_LEVEL RELATED_PROGRAMMES SURVEIL* OPERAT* DESIGN_CONSIDERATIONS START_DATE REASON_DELAYED NO_BATHING NO_BATHING_SITES NO_BIRDS NO_BIRDS_SITES NO_DRINKING NO_DRINKING_SITES NO_FISH NO_FISH_SITES NO_SHELLFISH NO_SHELLFISH_SITES NO_HABITATS NO_HABITATS_SITES NO_NITRATES NO_NITRATES_SITES NO_UWWT NO_UWWT_SITES NO_ABSTRACTION NO_ABSTRACTION_SITES METADATA URL

MON_GWProgrammes*	
FK1,I1 U1	EURBDCode* PROGRAMME_CD* NAME PROGRAMME_LEVEL RELATED_PROGRAMMES QUANTITATIVE* CHEM_SURVEIL* CHEM_OPERAT* DESIGN_CONSIDERATIONS START_DATE REASON_DELAYED SITE_METHOD* SUBSITES_METHOD* ADDITIONAL_REQS* TRANSBOUNDARY* DEVIATIONS* NO_SITES* NO_SITES_DW* SITES_AFFECTED* METADATA URL

MON_GWGeneralParameter	
FK1,I1	PROGRAMME_CD* PARAMETER_CD* MEASURED_AS SAMPLING_METHOD ANALYSIS_METHOD STANDARDS CONFIDENCE

MON_GWDetailParameter*	
FK1,I1	PROGRAMME_CD* PARAMETER_CD* NO_SITES* MEASURED_AS METHOD STANDARDS CONFIDENCE FREQ_METHOD FREQUENCY* CYCLE* CYCLE_DESCRIPTION

MON_SW_Incidents	
FK1,I1 U1	EURBDCode [R] Incident_Unique_Code [R] TYPE [R] STRATEGY [R] NO_SITES [R] OCCASIONS [R] METADATA

MON_SWIncidentsQualityElements	
FK1,I1	Incident_Unique_Code [R] QE_CD [R]

MON_SWSUBProgrammes*	
FK1,I1 U1	PROGRAMME_CD* CATEGORY* SUB_CD* NAME START_DATE END_DATE SITE_METHOD* SUBSITES_METHOD* ADDITIONAL_REQS* DEVIATIONS* NO_SITES* SITES_AFFECTED* METADATA

MON_SWSUBQualityElements*	
FK1,I1 I2	SUB_CD* QE_CD* NO_SITES* SAMPLING_METHOD ANALYSIS_METHOD STANDARDS CONFIDENCE FREQ_METHOD FREQUENCY* CYCLE* CYCLE_DESCRIPTION

Tables and fields with an asterisk (*) are required

[R] = Required field within optional tables

+○--○+ One to one relation

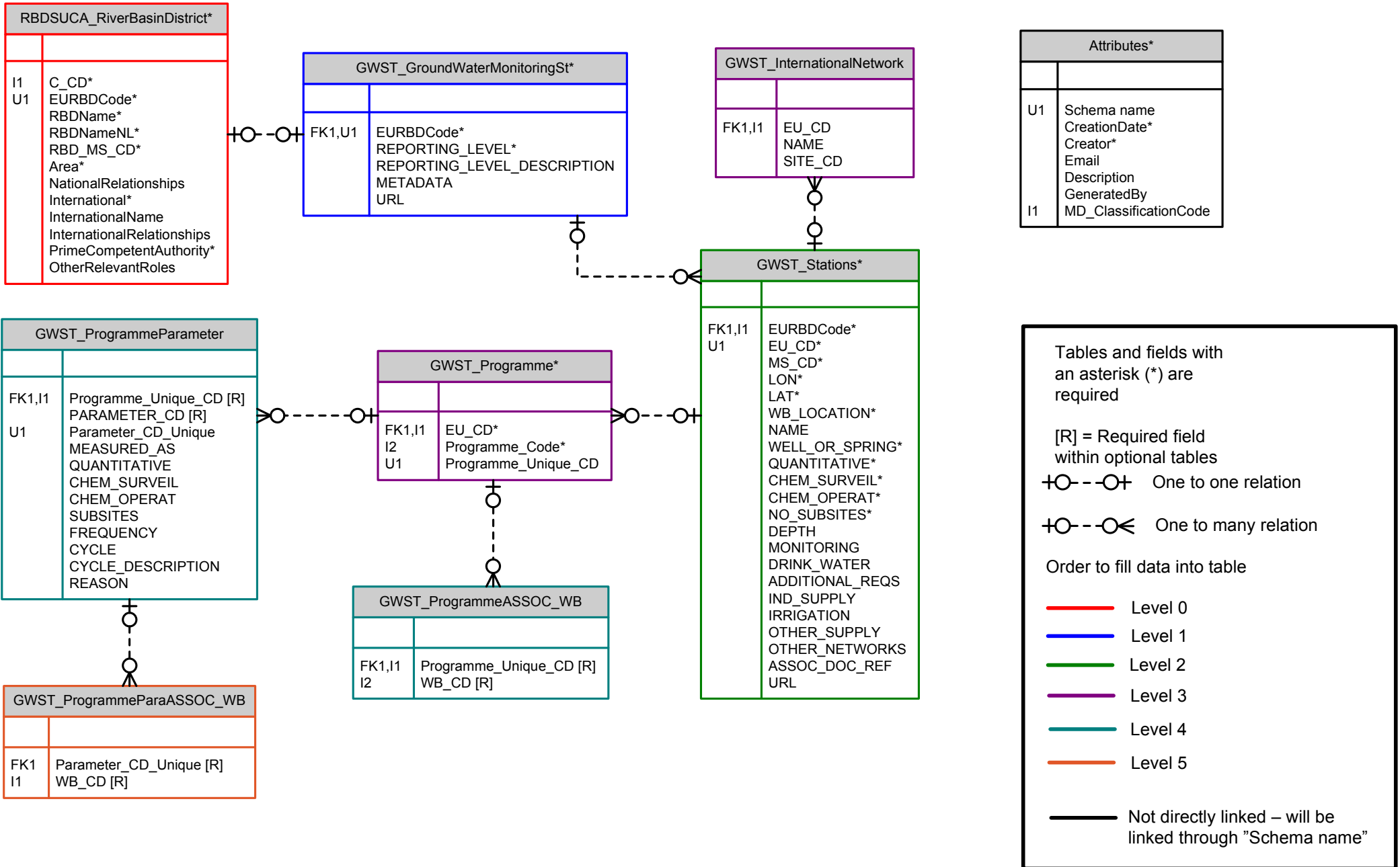
+○--○< One to many relation

Order to fill data into table

- Level 0
- Level 1
- Level 2
- Level 3
- Level 4

— Not directly linked – will be linked through "Schema name"

GroundWaterStations



SurfaceWaterStations

