

WISE

spatial data

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2022-09-19

https://cdr.eionet.europa.eu/help/WFD/WFD_780_2022/GISGuidance/Webinar_SpatialData_2022-09-19.pdf

European Environment Agency



Agenda

Part 1 – mainly for countries also reporting under WFD Spatial

Overview of the **WISE spatial dataflows**

Consolidation between historic **WISE-5** data & **WFD** spatial data

Q&A

Part 2 – for new reporters

Structure of the WISE spatial data **model**

Overview of the reporting process

Q&A

Part 3 – if time allows...

Overview of the products using the WISE spatial data sets

WISE spatial dataflows

WISE-5 and WFD Spatial

- Same data model
- Continuous reporting
- Data harvested and processed twice a year
- Data published once a year



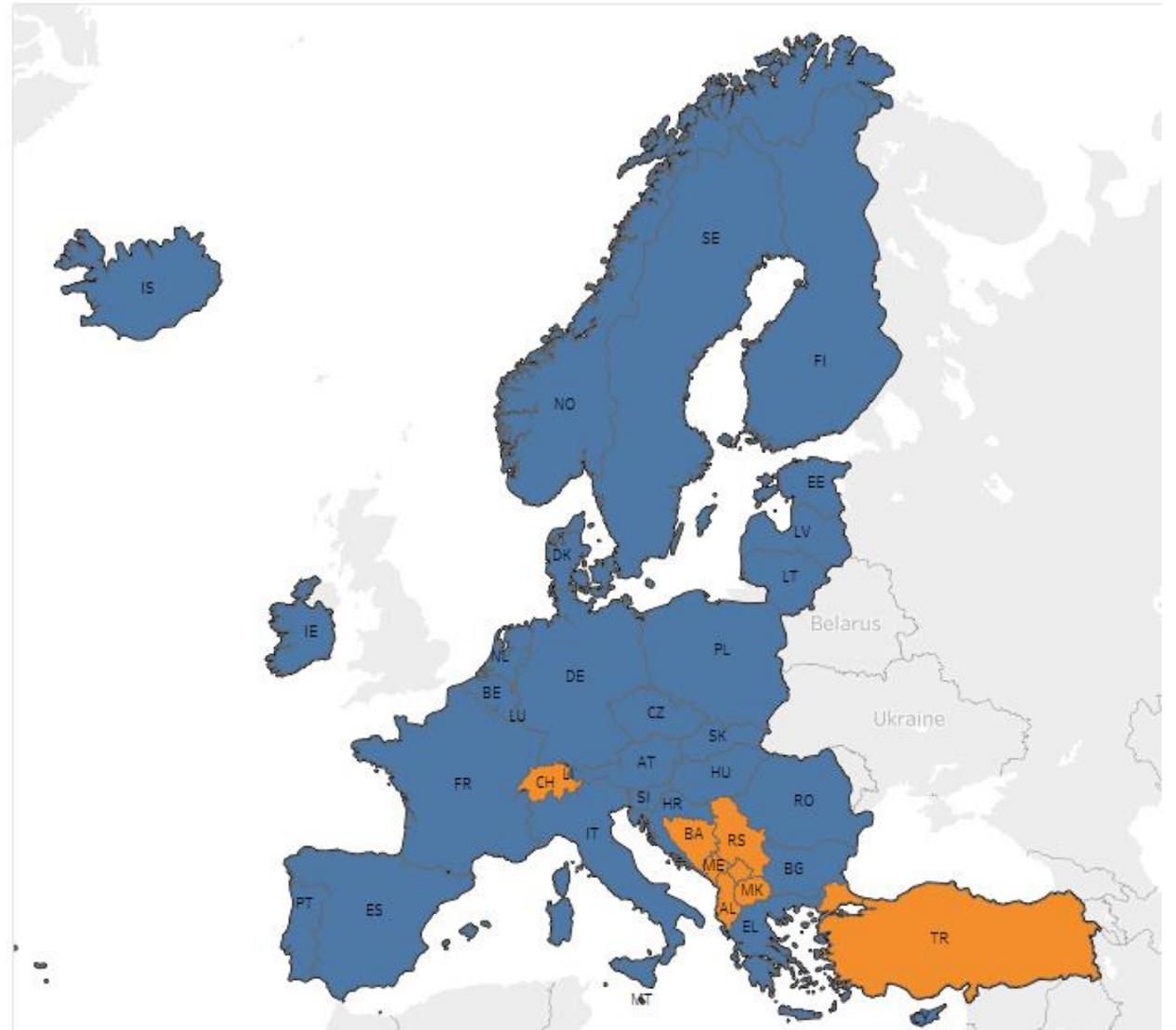
WFD Spatial

- EU-27
- Iceland & Norway

WISE-5

- CH, LI, TR
- EEA Cooperating Countries

- Countries reporting under WFD Spatial
- Countries reporting under WISE-5



The spatial objects reported under WFD Spatial have an identifier scheme starting with eu.
For example, this Austrian monitoring site:

euMonitoringSiteCode.ATFW10000027

The spatial objects reported under WISE-5 have an identifier scheme starting with eionet.
For example, this Albanian monitoring site:

eionetMonitoringSiteCode.AL011

Between 2000 and 2016,

countries reporting time series data under the WISE SoE data flows used EIONET identifiers.

For example, this Austrian monitoring site:

eionetMonitoringSiteCode.ATFW10000027

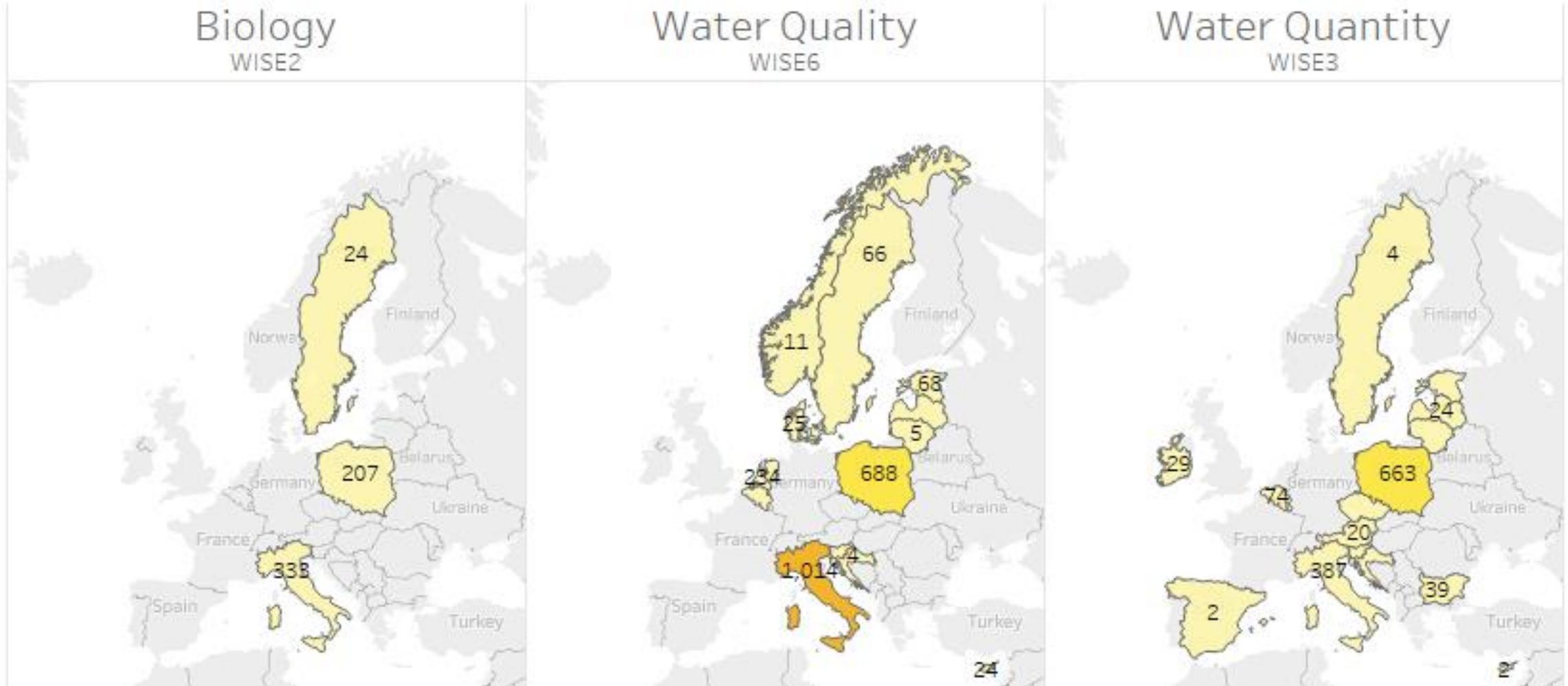
Since 2016,

countries that report under WFD Spatial have been consolidating their reporting.

For example, the old identifier above has been replaced by the current identifier:

euMonitoringSiteCode.ATFW10000027

Since 2016,
the use of old eionet identifiers by countries reporting under WFD Spatial became residual.



Since 2016,

85% of the former eionet identifiers have been retired or replaced by eu identifiers

93% of the time series are associated with eu identifiers

		eu		eionet	
WISE6	Water Quality	36392	94%	2163	6%
WISE2	Biology	7355	93%	564	7%
WISE3	Water Quantity	9433	86%	1477	14%

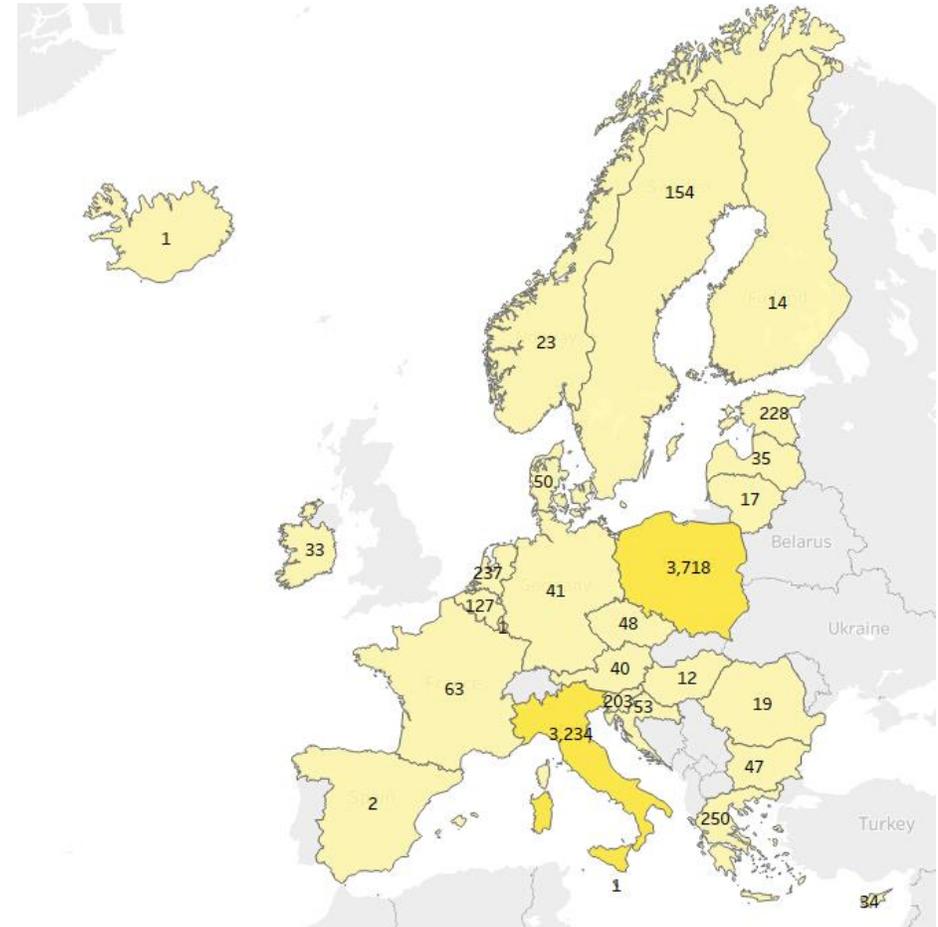
99.8% of the time series are associated with eu water bodies

		eu		eionet	
WISE6	Water Quality	21006	99.8%	34	0.2%
WISE2	Biology	6789	99.7%	22	0.3%
WISE3	Water Quantity	3448	99.9%	3	0.1%

Countries reporting under WFD Spatial should use **only** the **WFD Spatial** reporting for all sites located in eu water bodies.

That includes:

- former eionet sites,
if time series will continue to be reported under WISE SoE
- sites that have not yet been used in any WFD monitoring programme
if time series will be reported under WISE SoE
- sites that are not part of any regular WFD monitoring programme
if time series will be reported under WISE SoE
- water **quantity** monitoring sites
if time series will be reported under WISE-3



Examples



Type	Geometry	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU	IE	IT	LT	LU	LV	MT	NL	PT	PL	RO	SE	SI	SK	IS	NO	total
eionetSurfaceWaterBodyCode	Missing				9															3											12
	Point	20						1				11			12	1		11		1	1				2	46				10	116
	Line		5						1									12								1					19
	Polygon		6						1									7													14
eionetGroundWaterBodyCode	Missing			2			36	1		233				23						3											298
	Point						5	2					2													1		1		11	
	Polygon					4												1												5	
eionetMonitoringSiteCode	Missing				1																										1
	Point	20	116	45	24	44		46	226	17	2	3	61	30		32	3214	6	1	28		237		3718	17	106	203		13	8209	
<i>total</i>		40	127	47	34	48	41	50	228	250	2	14	63	53	12	33	3234	17	1	35	1	237	0	3718	19	154	203	0	1	23	8685

- Slovakia:

- Zero EIONET objects used in the WISE SoE reporting.
- No need to report under WISE-5.

Examples



Type	Geometry	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU	IE	IT	LT	LU	LV	MT	NL	PT	PL	RO	SE	SI	SK	IS	NO	total
eionetSurfaceWaterBodyCode	Missing				9															3											12
	Point	20						1				11			12	1		11		1	1				2	46				10	116
	Line		5						1								12									1					19
	Polygon		6						1								7														14
eionetGroundWaterBodyCode	Missing			2			36	1		233				23						3											298
	Point						5	2					2													1		1		11	
	Polygon					4											1													5	
eionetMonitoringSiteCode	Missing				1																										1
	Point	20	116	45	24	44		46	226	17	2	3	61	30		32	3214	6	1	28		237		3718	17	106	203		13	8209	
	total	40	127	47	34	48	41	50	228	250	2	14	63	53	12	33	3234	17	1	35	1	237	0	3718	19	154	203	0	1	23	8685

- Iceland:

- Only one remaining groundwater body (eionetGroundWaterBodyCode.ISBLAFJOLL).
- It was used before 2013, but no geometry is available.
- If possible, under WISE-5:
 - Report the geometry, and set wiseEvolutionType = deletion;
 - Or report the code of the WFD water body that replaced it, and set wiseEvolutionType = deletion;
 - Or simply contact wisoeso.helpdesk and inform that all EIONET objects should be retired and that no further WISE-5 reporting will be done.

Similar cases: Germany, Hungary, Malta

Examples



Type	Geometry	AT	BE	BG	CY	CZ	DE	DK	EE	EL	ES	FI	FR	HR	HU	IE	IT	LT	LU	LV	MT	NL	PT	PL	RO	SE	SI	SK	IS	NO	total
eionetSurfaceWaterBodyCode	Missing				9															3											12
	Point	20						1				11			12	1		11		1	1				2	46				10	116
	Line		5						1									12								1					19
	Polygon		6						1									7													14
eionetGroundWaterBodyCode	Missing			2			36	1		233				23						3											298
	Point						5	2					2													1		1		11	
	Polygon					4												1												5	
eionetMonitoringSiteCode	Missing				1																										1
	Point	20	116	45	24	44		46	226	17	2	3	61	30		32	3214	6	1	28		237		3718	17	106	203		13	8209	
	total	40	127	47	34	48	41	50	228	250	2	14	63	53	12	33	3234	17	1	35	1	237	0	3718	19	154	203	0	1	23	8685

- Luxembourg:

- Only one remaining monitoring site (eionetMonitoringSiteCode.LUL299001A37).
- It is monitoring a WFD waterbody.
- If the site & waterbody still exist:
 - If the site was reported already under WFD using a different code, report the code of the WFD site that replaced it, and set wiseEvolutionType = deletion;
 - **If the site was never reported under WFD, then report it now in the 3rd RBMP, as euMonitoringSiteCode.LUL299001A37 and contact wisoe.helpdesk to inform that no WISE-5 reporting will be done.**

Similar cases: Spain, Netherlands, Poland, ...

Other countries reporting under WFD Spatial

- The vast majority of cases are similar to the ones described in the previous slides.
- Please take the opportunity to consolidate the old EIONET data with the WFD data.

- Contact wisesoe.helpdesk if you need clarification on specific cases.
- The procedure to report under WISE-5 is identical to that of WFD.

Consolidation between WISE-5 data & WFD data

- Countries reporting under WFD Spatial should report only once! 

- In WFD Spatial, to link the eu sites to the old eionet sites using the *relatedToidentifier* and *relatedToidentifierScheme* attributes

- Use this WISE-5 data call to provide missing information about old eionet sites and water bodies, and retire any remaining eionet identifiers.

- **In February 2023**, EEA will retire any remaining eionet identifiers.

- **In 2023**, the WISE-5 data call will be restricted to countries that do not report under WFD Spatial.

Questions?

Part 2

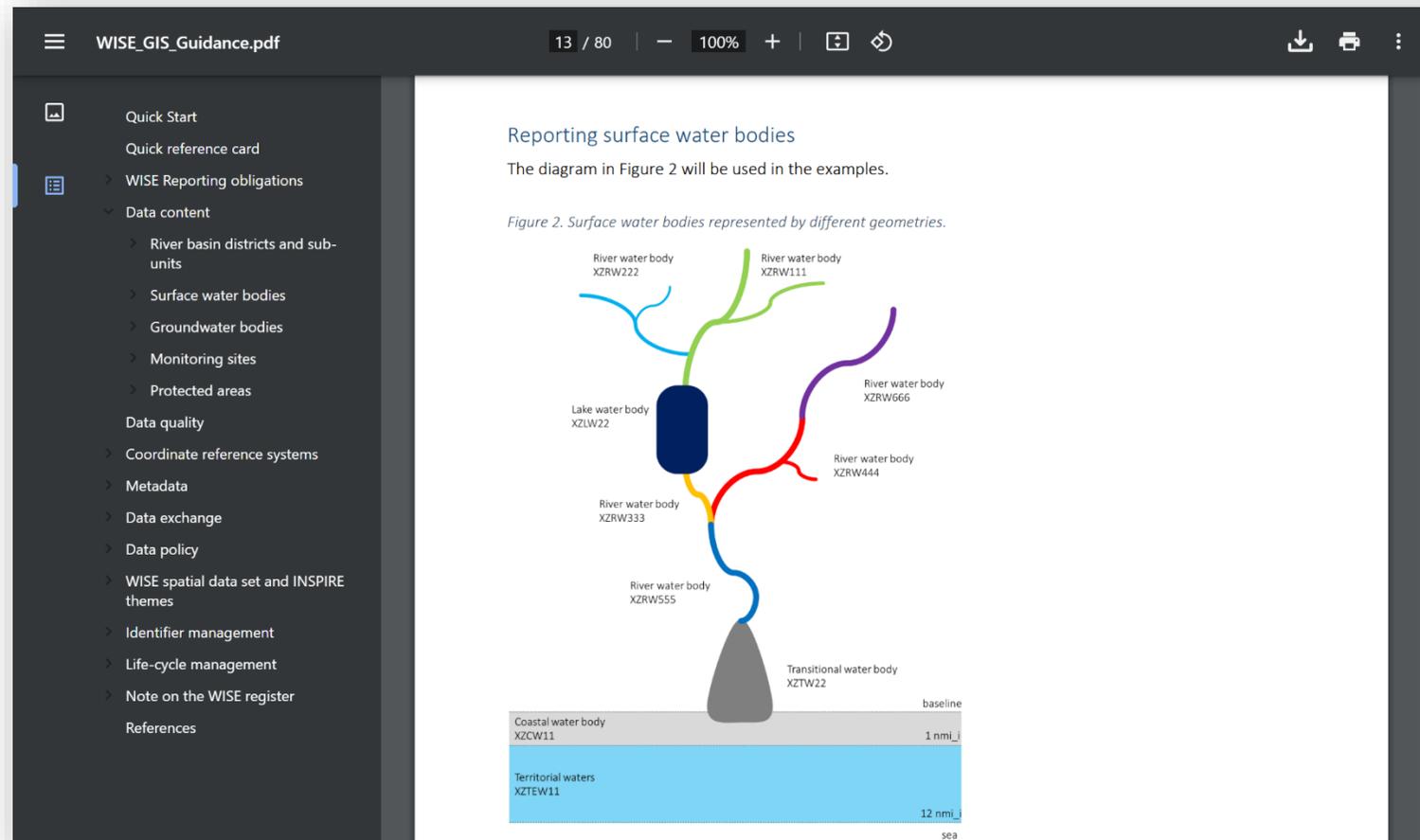
WISE spatial data model

Data model

- The spatial data reported to WISE follows the same model
 - In the [WFD spatial data flow](#) (countries reporting under WFD)
 - In the [WISE-5 spatial data](#) (for other EIONET countries)
- The data only needs to be reported once.
- If there are no changes, there's no need to report again.

Data model

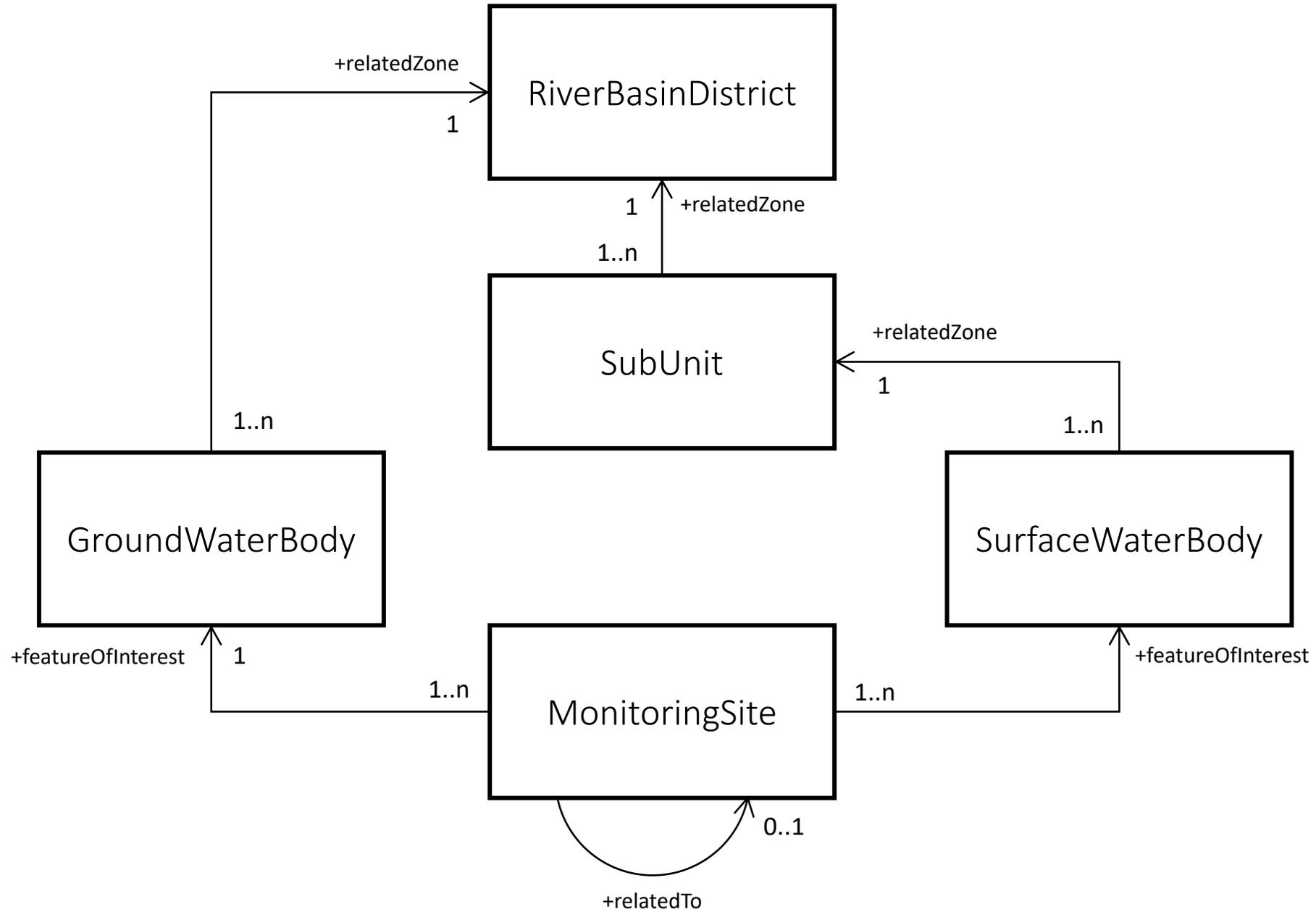
- The model is fully described in the [WISE GIS Guidance](#).



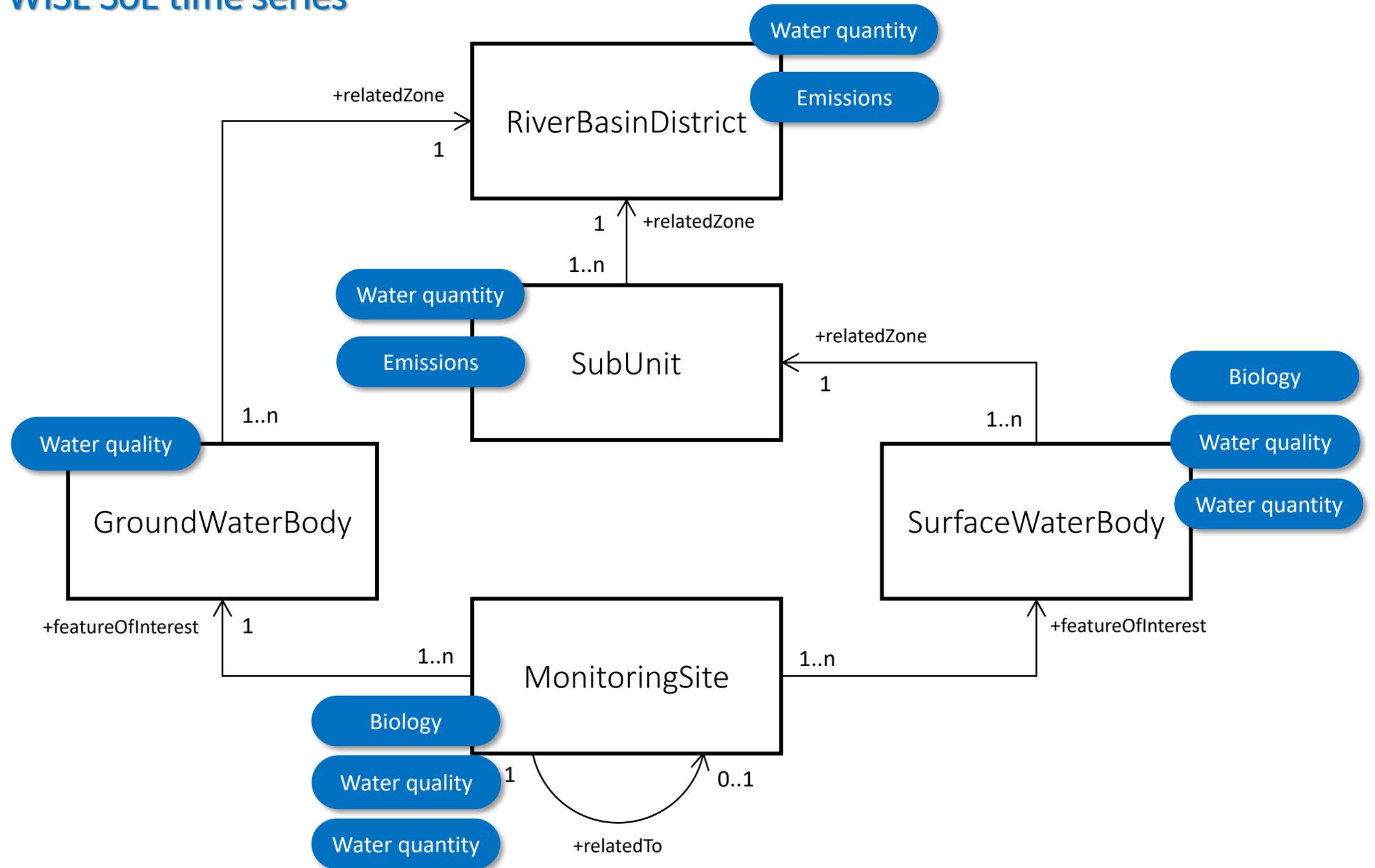
WISE spatial data model

- The reference spatial datasets are:
 - RiverBasinDistrict
 - SubUnit
 - SurfaceWaterBody
 - GroundWaterBody
 - MonitoringSite
- These data sets are **required** in the WFD Spatial reporting. 
- For countries that do not report under WFD, these data sets are mandatory in the WISE-5 reporting. 

relation between data sets



links to the WISE SoE time series



Areas of Management

The model is nearly identical for all AM datasets

- RiverBasinDistrict,
- SubUnit,
- SurfaceWaterBody,
- GroundWaterBody

INSPIRE theme	INSPIRE element	#	WISE GML data element	RiverBasinDistrict	SubUnit	SurfaceWaterBody	GroundWaterBody	Shapefile field name
AM EF	geometry	1	geometry	m	m	m	m	shape
AM EF	inspireId	2	inspireIdLocalId	m	m	m	m	localId
		3	inspireIdNamespace					namespace
		4	inspireIdVersionId	c	c	c	c	versionId
AM	thematicId	5	thematicIdIdentifier	m	m	m	m	thematicId
		6	thematicIdIdentifierScheme					themaIdSch
AM EF	beginLifespanVersion	9	beginLifespanVersion	c	c	c	c	beginLife
AM EF	endLifespanVersion	10	endLifespanVersion	c	c	c	c	endLife
(concept from SU)	predecessors	11	predecessorsIdentifier	c	c	c	c	predecesId
		12	predecessorsIdentifierScheme					predeldSch
(concept from SU)	sucessors	13	successorsIdentifier	c	c	c	c	successold
		14	successorsIdentifierScheme					succeldSch
(concept from SU)	evolutions	19	wiseEvolutionType	m	m	m	m	wEvolution
AM EF	name	20	nameTextInternational	m	m	m	m	nameTxtInt
		21	nameText	m	m	m	m	nameText
		22	nameLanguage					nameTxtLan
AM	designationPeriod	25	designationPeriodBegin	m	m	m	m	desigBegin
		26	designationPeriodEnd	c	c	c	c	desigEnd
AM	zoneType	29	zoneType	m	m	m	m	zoneType
AM	specialisedZoneType	30	specialisedZoneType		m	m	m	spZoneType
AM	legalBasis	31	legalBasisName	o	o	o	o	legisName
		32	legalBasisLink					legisLink
		33	legalBasisLevel					legisLevel
AM	relatedZone	34	relatedZoneIdentifier		m	m	m	rZoneld
		35	relatedZoneIdentifierScheme					rZoneldSch
AM	relatedZone	36	relatedZoneTransboundaryIdentifier	o	o	o	o	rTrnsId
		37	relatedZoneTransboundaryIdentifierScheme					rTrnsIdSch
		49	sizeValue	o	o	c	o	sizeValue
		50	sizeUom					sizeUoM
		51	meanDepth			o		meanDepth
		52	horizons				c	horizons
		55	link	o	o	o	o	link

Legend:

m	Mandatory element, must be reported
c	Conditional element, must be reported under specific circumstances
o	Optional element, can be reported

location data →

the national INSPIRE identifier →

relation to the WFD thematic data →

'creation', 'deletion', etc... →

names →

validity period →

type →

relation to other objects →

INSPIRE element	#	WISE GML data element	RiverBasinDistrict	SubUnit	SurfaceWaterBody	GroundWaterBody	Shapefile field name
geometry	1	geometry	m	m	m	m	shape
inspireId	2	inspireIdLocalId	m	m	m	m	localId
	3	inspireIdNamespace					namespace
	4	inspireIdVersionId	c	c	c	c	versionId
thematicId	5	thematicIdIdentifier	m	m	m	m	thematicId
	6	thematicIdIdentifierScheme					themaIdSch
beginLifespanVersion	9	beginLifespanVersion	c	c	c	c	beginLife
endLifespanVersion	10	endLifespanVersion	c	c	c	c	endLife
predecessors	11	predecessorsIdentifier	c	c	c	c	predecesId
	12	predecessorsIdentifierScheme					predeldSch
sucessors	13	successorsIdentifier	c	c	c	c	successold
	14	successorsIdentifierScheme					succeldSch
evolutions	19	wiseEvolutionType	m	m	m	m	wEvolution
name	20	nameTextInternational	m	m	m	m	nameTxtInt
	21	nameText	m	m	m	m	nameText
	22	nameLanguage					nameTxtLan
designationPeriod	25	designationPeriodBegin	m	m	m	m	desigBegin
	26	designationPeriodEnd	c	c	c	c	desigEnd
zoneType	29	zoneType	m	m	m	m	zoneType
	30	specialisedZoneType		m	m	m	spZoneType
legalBasis	31	legalBasisName					legisName
	32	legalBasisLink	o	o	o	o	legisLink
	33	legalBasisLevel					legisLevel
relatedZone	34	relatedZoneIdentifier		m	m	m	rZoneld
	35	relatedZoneIdentifierScheme					rZoneldSch
relatedZone	36	relatedZoneTransboundaryIdentifier	o	o	o	o	rTrnsId
	37	relatedZoneTransboundaryIdentifierScheme					rTrnsIdSch
sizeValue	49	sizeValue	o	o	c	o	sizeValue
	50	sizeUom					sizeUoM
meanDepth	51	meanDepth			o		meanDepth
horizons	52	horizons				c	horizons
link	55	link	o	o	o	o	link

Legend:

- m Mandatory element, must be reported
- c Conditional element, must be reported under specific circumstances
- o Optional element, can be reported

Environmental Monitoring Facilities

The element names are slightly different in the MonitoringSite data set, but the overall structure is the same.

INSPIRE theme	INSPIRE element	#	WISE GML data element	MonitoringSite	Shapefile field name
AM EF	geometry	1	geometry	m	shape
AM EF	inspireId	2	inspireIdLocalId	m	localId
		3	inspireIdNamespace	c	namespace
		4	inspireIdVersionId	c	versionId
AM	thematicId	5	thematicIdIdentifier	m	thematicId
		6	thematicIdIdentifierScheme	m	themaldSch
AM EF	beginLifespanVersion	9	beginLifespanVersion	c	beginLife
AM EF	endLifespanVersion	10	endLifespanVersion	c	endLife
EF	supersedes	15	supersedesIdentifier	c	predecId
		16	supersedesIdentifierScheme	c	predIdSch
EF	supersededBy	17	supersededByIdentifier	c	successold
		18	supersededByIdentifierScheme	c	succIdSch
(concept from SU)	evolutions	19	wiseEvolutionType	m	wEvolution
AM EF	name	20	nameTextInternational	m	nameTxtInt
		21	nameText	m	nameText
		22	nameLanguage	m	nameTxtLan
EF	operationalActivity	27	operationalActivityPeriodBegin	m	opActBegin
		28	operationalActivityPeriodEnd	c	opActEnd
EF	featureOfInterest	38	featureOfInterestIdentifier	m	foId
		39	featureOfInterestIdentifierScheme	m	foIdSch
EF	relatedTo	40	relatedToIdentifier	o	rSiteId
		41	relatedToIdentifierScheme	o	rSiteIdSch
EF	mediaMonitored	42	mediaMonitoredBiota	m	mediaBiota
		43	mediaMonitoredWater	m	mediaWater
		44	mediaMonitoredSediment	m	mediaSedim
EF	purpose	45	purpose	o	purpose
		46	catchmentArea	o	catchArea
		47	maximumDepth	o	maxDepth
		48	confidentialityStatus	m	confStatus
		55	link	o	link

Legend:

- m Mandatory element, must be reported
- c Conditional element, must be reported under specific circum
- o Optional element, can be reported

the location data

the national INSPIRE identifier

relation to the WFD thematic data

'creation', 'deletion', etc... names

validity period

relation to other objects



INSPIRE element	#	WISE GML data element	MonitoringSite	Shapefile field name
geometry	1	geometry	m	shape
inspireId	2	inspireIdLocalId	m	localId
	3	inspireIdNamespace	m	namespace
	4	inspireIdVersionId	c	versionId
thematicId	5	thematicIdIdentifier	m	thematicId
	6	thematicIdIdentifierScheme	m	themaIdSch
beginLifespanVersion	9	beginLifespanVersion	c	beginLife
endLifespanVersion	10	endLifespanVersion	c	endLife
supersedes	15	supersedesIdentifier	c	precedesId
	16	supersedesIdentifierScheme	c	predeldSch
supersededBy	17	supersededByIdentifier	c	successold
	18	supersededByIdentifierScheme	c	succeldSch
evolutions	19	wiseEvolutionType	m	wEvolution
name	20	nameTextInternational	m	nameTxtInt
	21	nameText	m	nameText
	22	nameLanguage	m	nameTxtLan
operationalActivity	27	operationalActivityPeriodBegin	m	opActBegin
	28	operationalActivityPeriodEnd	c	opActEnd
featureOfInterest	38	featureOfInterestIdentifier	m	foild
	39	featureOfInterestIdentifierScheme	m	foildSch
relatedTo	40	relatedToIdentifier	o	rSiteld
	41	relatedToIdentifierScheme	o	rSiteldSch
mediaMonitored	42	mediaMonitoredBiota	m	mediaBiota
	43	mediaMonitoredWater	m	mediaWater
	44	mediaMonitoredSediment	m	mediaSedim
purpose	45	purpose	o	purpose
	46	catchmentArea	o	catchArea
	47	maximumDepth	o	maxDepth
	48	confidentialityStatus	m	confStatus
	55	link	o	link

Legend:

- m Mandatory element, must be reported
- c Conditional element, must be reported under specific circumstances
- o Optional element, can be reported



How are INSPIRE complex data types stored in a flat GML file?

«dataType» Base Types::Identifier
+ localId: CharacterString + namespace: CharacterString
«lifeCycleInfo, voidable»
+ versionId: CharacterString [0..1]



«dataType» Base Types 2::ThematicIdentifier
+ identifier: CharacterString + identifierScheme: CharacterString



inspireId	2	inspireIdLocalId	m
	3	inspireIdNamespace	
	4	inspireIdVersionId	c
thematicId	5	thematicIdIdentifier	m
	6	thematicIdIdentifierScheme	

*The name is concatenated,
making easier to recognise each element.*

Why use thematic identifiers and not only INSPIRE identifiers?

*"Multiple thematic object identifiers may be assigned to a zone where different data exchange requirements (e.g. national vs European reporting) have defined different lexical rules for thematic object identifiers. Where multiple thematic object identifiers exist all should be provided. **This shall allow external datasets that use these thematic object identifiers for referencing to link to the INSPIRE spatial object.**"*



Spatial Object	WFD Reporting Identifier Scheme	WISE SoE Reporting Identifier Scheme
Monitoring Site	'euMonitoringSiteCode'	'eionetMonitoringSiteCode'
Surface Water Body	'euSurfaceWaterBodyCode'	'eionetSurfaceWaterBodyCode'
Groundwater Body	'euGroundWaterBodyCode'	'eionetGroundWaterBodyCode'
Sub Unit	'euSubUnitCode'	'eionetSubUnitCode'
River Basin District	'euRBDCode'	'eionetRBDCode'

So, thematic identifiers are used in all the data sets.

Also, they are used to link between data sets.

Why are there 2 different names for each element?

The spatial data can be prepared using shapefiles (a common GIS format).

The data delivery must be made in GML format (conversion tools are available in Reportnet).

*This is the “formal” name
of the element in the XML schema.
It must be used in the GML files.*

*This is the “short name”
of the element in shapefile format.
Shapefiles have a limitation of 10 characters.*



WISE GML data element	Shapefile field name
geometry	shape
inspireIdLocalId	localId
inspireIdNamespace	namespace
inspireIdVersionId	versionId
thematicIdIdentifier	thematicId
thematicIdIdentifierScheme	themaldSch
beginLifespanVersion	beginLife
endLifespanVersion	endLife

Must the shapefile format be used?

No.

Data Providers can create and deliver GML files (XML schemas are provided for each data set).

But reporters can also use shapefiles, if they prefer to work in that format.

Empty “template” shapefiles are provided for each data set, and also prefilled shapefiles with the latest information reported.

Shapefiles are converted to GML when uploading to Reportnet. 

Reporting the spatial data

Reporting the spatial data in CDR

- Data delivery takes place in Reportnet Central Data Repository (CDR)

The screenshot shows the EIONET Central Data Repository (CDR) website. The header includes the European Environment Agency logo and the text "EIONET Central Data Repository". A navigation bar contains "Login", "Eionet portal", and a search icon. Below the header, a breadcrumb trail reads "You are here: Eionet » CDR".

Services

- » Search by obligation
- » Search XML files
- » Search for feedback
- » Global worklist
- » Notifications
- » Help

Account Services

- » I have lost my password

Note

Subscribe to receive notifications if you want to stay updated about events in this site.

Your password

The Eionet password expires two years after it was last changed.

The Central Data Repository is part of the Reportnet architecture. The Central Data Repository is like a bookshelf, with data reports on the environment as submitted to international clients.

Each country either has a collection (📁) for its deliveries or a referral (👉) to a different preferred repository. The data reports within each country collection are arranged under the relevant reporting obligations or agreements.

EEA Member countries

Austria	Belgium	Bulgaria
Croatia	Cyprus	Czechia
Denmark	Estonia	Finland
France	Germany	Greece
Hungary	Iceland	Ireland
Italy	Latvia	Liechtenstein
Lithuania	Luxembourg	Malta
Netherlands	Norway	Poland
Portugal	Romania	Slovakia
Slovenia	Spain	Sweden
Switzerland	Turkey	

Other countries and territories

Albania	Andorra	Armenia	Azerbaijan
Belarus	Bosnia and Herzegovina	Georgia	Kazakhstan
Kosovo (UNSCR 1244/99)	Kyrgyzstan	Moldova	Monaco
Montenegro	North Macedonia	Russia	Serbia
Tajikistan	Turkmenistan	Ukraine	United Kingdom
United Kingdom (Gibraltar)	Uzbekistan		

International organisations

European Red List of birds	European Union
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Global worklist

- Search by obligation
- Search for feedback
- Search XML files
- Recent uploads
- Recently released

Need help? First try the [On-line CDR help](#) then ask the Eionet helpdesk: helpdesk@eionet.europa.eu.

Eionet helpdesk will provide assistance for: Upload access for new users, Password problem, Difficulties during upload procedure, Download problems

Testing and training in CDRSandbox

- CDRSandbox is an open testing area. Any EIONET user can access it.

The screenshot shows the EIONET CDR Sandbox website. The header includes the European Environment Agency logo and the text 'EIONET Central Data Repository' and 'CDR Sandbox website'. The main content area is divided into several sections:

- Services:** Search by obligation, Search XML files, Search for feedback, Global worklist, Notifications, Help.
- Account Services:** I have, lost my password.
- Note:** Subscribe to receive notifications if you want to stay updated about events in this site.
- Global worklist:** Search by obligation, Search for feedback, Search XML files, Recent uploads, Recently released.
- EEA Member countries:** Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey.
- Other countries and territories:** Albania, Andorra, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Kazakhstan, Kosovo (UNSCR 1244/99), Kyrgyzstan, Moldova, Monaco, Montenegro, North Macedonia, Russia, Serbia, Tajikistan, Turkmenistan, Ukraine, United Kingdom, United Kingdom (Gibraltar), Uzbekistan.
- International organisations:** European Red List of birds, European Union.

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- The Central Data Repository is the official repository.
- Use <https://cdr.eionet.europa.eu/> to make the official data delivery.
 - You will need valid EIONET credentials.
 - **You will need to be an authorised national data reporter for the WISE-5 reporting obligation. Contact your NFP.**
- Use <https://cdrsandbox.eionet.europa.eu/> if you want to perform tests.
 - You will need valid EIONET credentials.
 - Remember that CDRSandbox is an open access platform: don't upload confidential data.
- The delivery process is identical in both platforms.

If you need reporting permissions in CDR

- If you need reporting permissions for WFD Spatial Data
 - Check if your user is listed in [Water Framework Directive - Data Reporters](#)
 - If your user is not listed, contact your [WISE - National reporting coordinators](#)
 - The national coordinator should send an email to wfd.helpdesk@eionet.europa.eu requesting that your user is added to the list.
- If you need reporting permissions for EIONET WISE-5
 - Check if your user is listed in [WISE - Spatial Data \(WISE-5\) Reporters](#)
 - If your user is not listed, contact your EIONET [National Focal Points](#)
 - The EIONET National Focal Point will grant you the necessary permissions.

Always start in the help page...

- All the documentation is available in the [help pages](#).

The screenshot shows the EIONET Central Data Repository website. The header includes the European Environment Agency logo and the EIONET logo. The main content area is titled "Water Framework Directive" and contains a list of dataflow specific instructions. A yellow arrow points to the first item in the list: "Water Framework Directive - River Basin Management Plans - 2022 Reporting - Development phase".

European Environment Agency

EIONET
Central Data Repository

You are here: Eionet » CDR » General Help » Water Framework Directive

Navigation

- » Search by obligation
- » Search XML files
- » Search for feedback
- » Global worklist
- » Notifications
- » Help

Account Services

I have

- » lost my password

Water Framework Directive

The following material is intended for national reporters of WFD data. It shows how to use Reportnet tools during the reporting process and how to improve the quality of deliveries.

Dataflow specific instructions

- » [Water Framework Directive - River Basin Management Plans - 2022 Reporting - Development phase](#)
- » [Water Framework Directive - River Basin Management Plans - 2022 Spatial Data Reporting](#)
- » [Water Framework Directive - Programmes of Measures - 2018 Reporting - Terminated](#)
- » [Water Framework Directive - Environmental Quality Standards - 2018 Reporting - Terminated](#)
- » [Water Framework Directive - River Basin Management Plans - 2016 Reporting - Terminated](#)
- » [Water Framework Directive - Programmes of Measures - 2012 Reporting - Terminated](#)
- » [Water Framework Directive - River Basin Management Plans - 2010 Reporting - Terminated](#)

WISE dataflows

- » [WISE SoE Data Flows](#)
- » [Water Framework Directive](#)
- » [Floods Directive](#)
- » [Bathing Water Directive](#)
- » [Drinking Water Directive](#)
- » [Urban Waste Water Treatment Directive](#)

WISE
WATER INFORMATION SYSTEM FOR EUROPE

Start in the help page

Read the docs...

All the guidance documents



European Environment Agency 

Login  

EIONET Central Data Repository

You are here: Eionet » CDR » General Help » Water Framework Directive » Water Framework Directive - River Basin Management Plans - 2022 Spatial data

Navigation

- » Search by obligation
- » Search XML files
- » Search for feedback
- » Global worklist
- » Notifications
- » Help

Account Services

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WISE Spatial Data reporting resources

Water Framework Directive - River Basin Management Plans - 2022 reporting

 **Helpdesk**
All enquiries can be directed to wfd_helpdesk@eionet.europa.eu

Current version: 7.0.6

Guidance documents

- [WISE GIS Guidance v7.0.6](#) - Complete reporting guidance.
- [Protected Areas clarification note](#) - Clarification on how to report protected areas.
- [WISE Data Model v7.0.6 - Quick Reference Card](#) - Condensed description.
- [WISE Reportnet2 Guidance](#) - How to access prefilled files and convert shapefiles to GML
- [QAQC Scripts](#) - Documentation for the QAQC and scripts that are executed

Spatial model quick reference

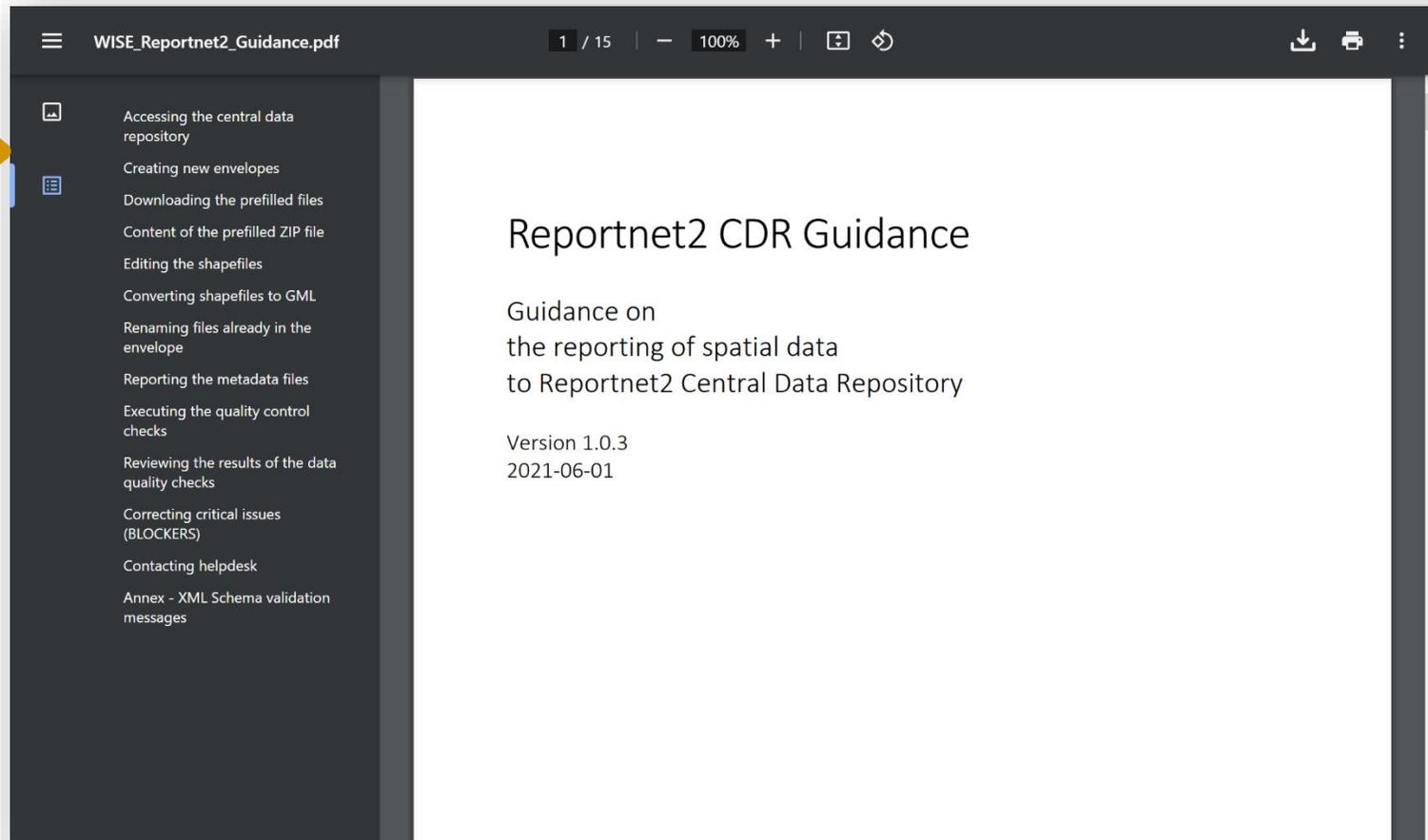
INSPIRE theme	INSPIRE element	#	WISE GML data element	MonitoringSite	RiverBasinDistrict	SubUnit	SurfaceWaterBody	SurfaceWaterBodyLine	GroundWaterBody	ProtectedArea	ProtectedAreaLine	ProtectedAreaPoint	GroundWaterBodyHorizon	SurfaceWaterBodyCentreline	Shapefile field name
AM EF	geometry	1	geometry	m	m	m	m	m	m	m	m	m	m	m	shape
		2	inspireidLocalid	m	m	m	m	m	m	m	m	m	m	m	localid
		3	inspireidNamespace	m	m	m	m	m	m	m	m	m	m	m	namespace
		4	inspireidVersionid	c	c	c	c	c	c	c	c	c	c	c	versionid
AM	thematicid	5	thematicidIdentifier	m	m	m	m	m	m	m	m	m	m	m	thematicid
		6	thematicidIdentifierScheme	m	m	m	m	m	m	m	m	m	m	m	themaidSch
(from HY)	hydroid	7	hydroidLocalid											m	hydroid
		8	hydroidNamespace											m	namespace
		9	hydroidVersionid											m	versionid



Reportnet guidance

- The reporting process is described in the [Reportnet2 CDR Guidance](#).

We'll follow these steps



Select your country collection

European Environment Agency  Login   >> Eionet portal

EIONET Central Data Repository

You are here: Eionet > CDR

Services

- >> [Search by obligation](#)
- >> [Search XML files](#)
- >> [Search for feedback](#)
- >> [Global worklist](#)
- >> [Notifications](#)
- >> [Help](#)

Account Services

- >> [I have lost my password](#)

 **Note**

[Subscribe to receive notifications](#) if you want to stay updated about events in this site.

 **Your password**

The Eionet password expires two years after it was last changed.

The Central Data Repository is part of the Reportnet architecture. The Central Data Repository is like a bookshelf, with data reports on the environment as submitted to international clients.

Each country either has a collection () for its deliveries or a referral () to a different preferred repository. The data reports within each country collection are arranged under the relevant reporting obligations or agreements.

EEA Member countries

Austria	Belgium	Bulgaria
Croatia	Cyprus	Czechia
Denmark	Estonia	Finland
France	Germany	Greece
Hungary	Iceland	Ireland
Italy	Latvia	Liechtenstein
Lithuania	Luxembourg	Malta
Netherlands	Norway	Poland
Portugal	Romania	Slovakia
Slovenia	Spain	Sweden
Switzerland	Turkey	

Other countries and territories

Albania	Andorra	Armenia	Azerbaijan
Belarus	Bosnia and Herzegovina	Georgia	Kazakhstan
Kosovo (UNSCR 1244/99)	Kyrgyzstan	Moldova	Monaco
Montenegro	North Macedonia	Russia	Serbia
Tajikistan	Turkmenistan	Ukraine	United Kingdom
United Kingdom (Gibraltar)	Uzbekistan		

International organisations

- [European Red List of birds](#)
- [European Union](#)

- [Global worklist](#)
- [Search by obligation](#)
- [Search for feedback](#)
- [Search XML files](#)
- [Recent uploads](#)
- [Recently released](#)



Need help? First try the [On-line CDR help](#) then ask the Eionet helpdesk: helpdesk@eionet.europa.eu.

Eionet helpdesk will provide assistance for: Upload access for new users, Password problem, Difficulties during upload procedure, Download problems

Navigate to the correct folder

European Environment Agency

Login

Eionet portal

EIONET Central Data Repository

You are here: Eionet » CDR » Malta

Services

- » Search by obligation
- » Search XML files
- » Search for feedback
- » Global worklist
- » Notifications
- » Help

Account Services

- » I have lost my password

Note

Subscribe to receive notifications if you want to stay updated about events in this site.

Your password

The Eionet password expires two years after it was last changed.

Overview

Malta

Envelopes and subcollections

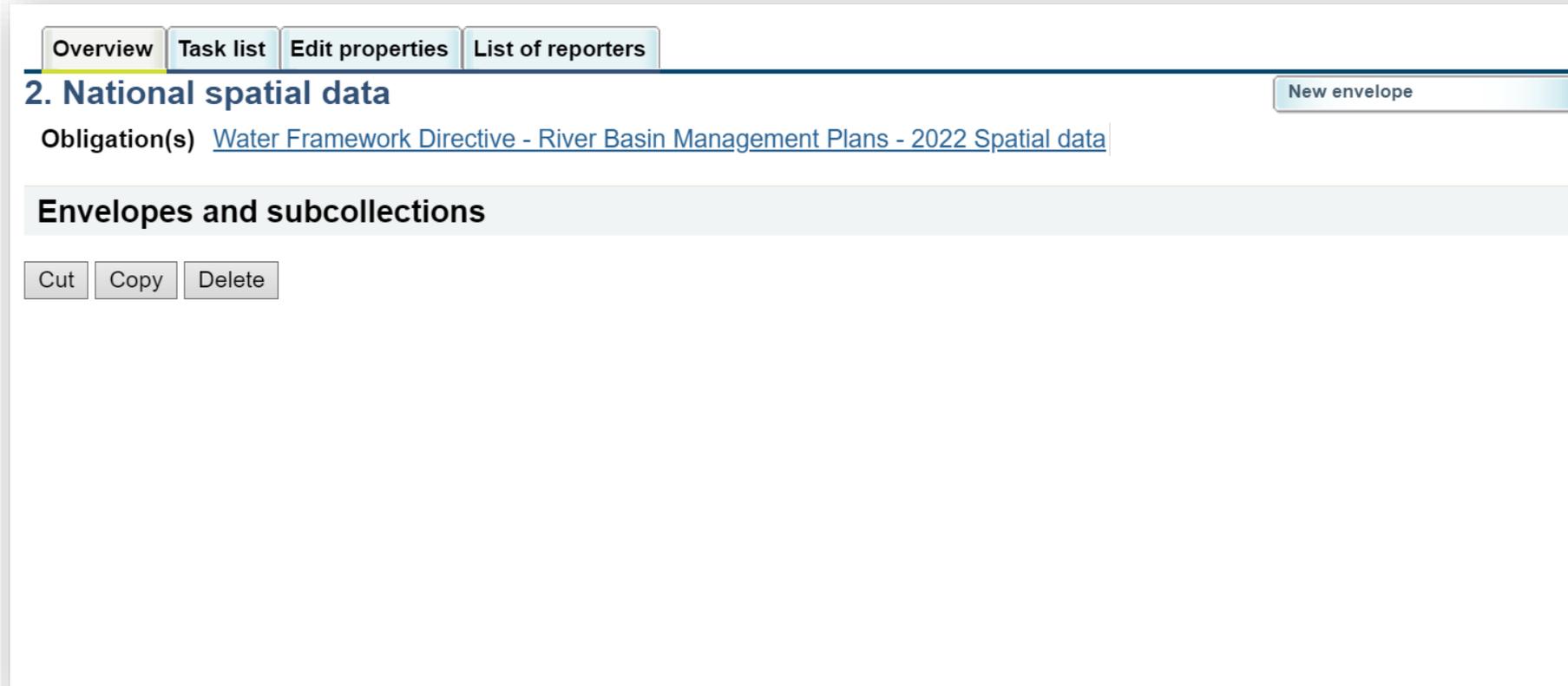
EEA requests	26 Sep 2018
European Pollutant Emission Register (EPER)	15 Nov 2016
European Union (EU) obligations	19 Mar 2020
Eurostat/OECD joint questionnaire	
Helcom	
Ospar/Parcom	
Other conventions and agreements	28 Jan 2013
United Nations (UN)	10 Nov 2016

Document last modified 2016/02/26. [Legal notice](#)

<https://cdr.eionet.europa.eu/mt/eu/wfd2022/spatial/>

Note: EIONET WISE-5 deliveries should be made in https://cdr.eionet.europa.eu/mt/eea/wise_soe/wise5/

Create a new envelope



The screenshot shows a web application interface with a top navigation bar containing four tabs: "Overview" (highlighted in yellow), "Task list", "Edit properties", and "List of reporters". Below the navigation bar, the main content area is titled "2. National spatial data" and includes a "New envelope" button on the right. Underneath, there is a link for "Obligation(s)" pointing to "Water Framework Directive - River Basin Management Plans - 2022 Spatial data". A section titled "Envelopes and subcollections" is visible, followed by three buttons: "Cut", "Copy", and "Delete".



Remember to login first...

Activate the envelope

Overview Edit properties Manage workflow history History

Test envelope - please ignore

Description

Obligations [Water Framework Directive - River Basin Management Plans - 2022 Spatial data](#)

Period 2020 - Not applicable

Coverage Malta

Status Task(s) waiting to be assigned: **Activate task: Draft** (You have to activate this task first before you can upload your files.)

Zip envelope

Activate task

Note

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).

Files in this envelope

Remember to release the envelope when you have uploaded all files

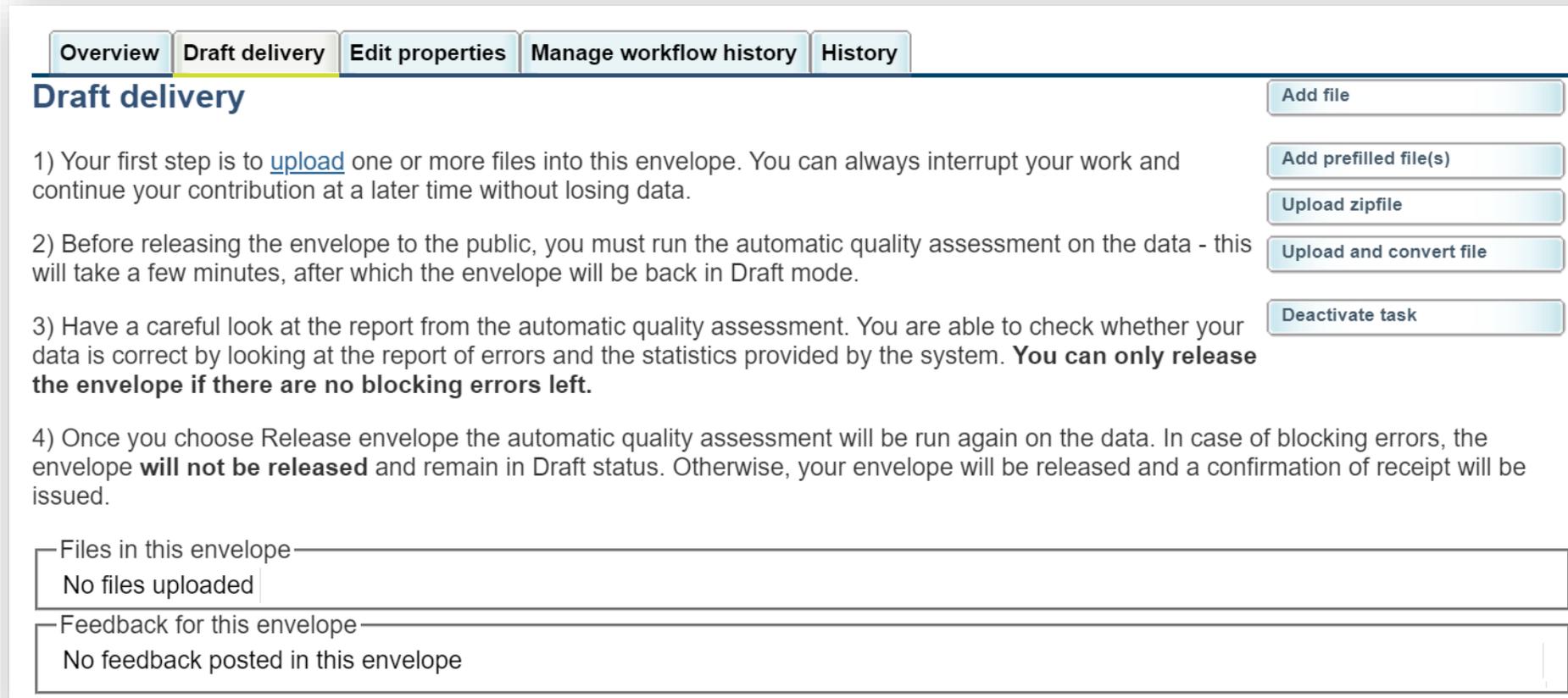
Feedback for this envelope

No feedback posted in this envelope



Add the prefilled files

This step is only necessary if you want to download a prefilled set of shapefiles, and update the data.



The screenshot shows a web interface with a navigation bar at the top containing tabs: Overview, Draft delivery (highlighted), Edit properties, Manage workflow history, and History. Below the navigation bar, the 'Draft delivery' section is active. It contains four numbered instructions:

- 1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.
- 2) Before releasing the envelope to the public, you must run the automatic quality assessment on the data - this will take a few minutes, after which the envelope will be back in Draft mode.
- 3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**
- 4) Once you choose Release envelope the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Below the instructions, there are two summary boxes:

- Files in this envelope: No files uploaded
- Feedback for this envelope: No feedback posted in this envelope

On the right side of the interface, there is a vertical column of five buttons: Add file, Add prefilled file(s), Upload zipfile, Upload and convert file, and Deactivate task. A large yellow arrow points to the 'Add prefilled file(s)' button.

If you already have prepared your delivery, you don't need to do this.

You can now download and edit the data

This step is only necessary if you want to start with a prefilled set of shapefiles.

Overview Edit properties Manage workflow history History

Test envelope - please ignore Zip envelope

Description

Obligations [Water Framework Directive - River Basin Management Plans - 2022 Spatial data](#)

Period 2020 - Not applicable

Coverage Malta

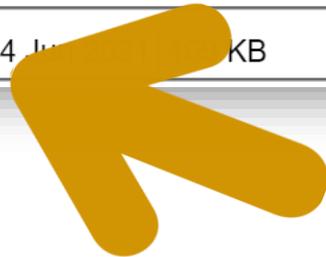
Status Task(s) in progress: [Add prefill file](#)

Note

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).

Files in this envelope

1	WFD-SpatialData_MT.zip	04 Jun 2022	KB
---	--	-------------	----



Click the file link

If you already have prepared your delivery, you don't need to do this.

The ZIP file contains different folders

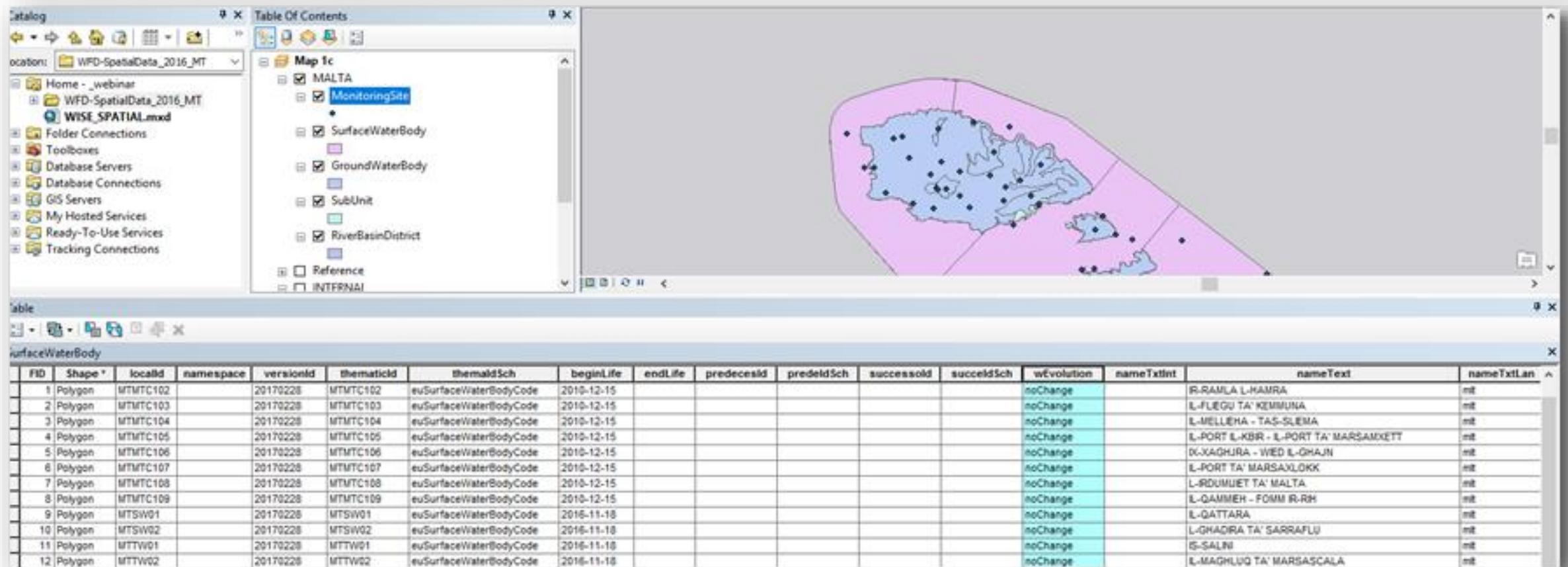
```
Archive: /tmp/tmpkHJB7K
Length   Date    Time    Name
-----
      5 12-15-2020 15:04 SurfaceWaterBody/SurfaceWaterBody.cpg
 121767 12-15-2020 15:04 SurfaceWaterBody/SurfaceWaterBody.dbf
    168 12-15-2020 15:04 SurfaceWaterBody/SurfaceWaterBody.prj
    308 12-15-2020 15:04 SurfaceWaterBody/SurfaceWaterBody.sbn
    132 12-15-2020 15:04 SurfaceWaterBody/SurfaceWaterBody.sbx
 461204 12-15-2020 15:04 SurfaceWaterBody/SurfaceWaterBody.shp
    252 12-15-2020 15:04 SurfaceWaterBody/SurfaceWaterBody.shx
      5 12-15-2020 14:58 MonitoringSite/MonitoringSite.cpg
 630351 12-15-2020 14:58 MonitoringSite/MonitoringSite.dbf
    168 12-15-2020 14:58 MonitoringSite/MonitoringSite.prj
   1436 12-15-2020 14:58 MonitoringSite/MonitoringSite.sbn
    180 12-15-2020 14:58 MonitoringSite/MonitoringSite.sbx
   8356 12-15-2020 14:58 MonitoringSite/MonitoringSite.shp
   1132 12-15-2020 14:58 MonitoringSite/MonitoringSite.shx
      5 12-15-2020 15:08 RiverBasinDistrict/RiverBasinDistrict.cpg
   6902 12-15-2020 15:08 RiverBasinDistrict/RiverBasinDistrict.dbf
    168 12-15-2020 15:08 RiverBasinDistrict/RiverBasinDistrict.prj
    132 12-15-2020 15:08 RiverBasinDistrict/RiverBasinDistrict.sbn
    116 12-15-2020 15:08 RiverBasinDistrict/RiverBasinDistrict.sbx
   2252 12-15-2020 15:08 RiverBasinDistrict/RiverBasinDistrict.shp
    108 12-15-2020 15:08 RiverBasinDistrict/RiverBasinDistrict.shx
      5 12-15-2020 15:07 SubUnit/SubUnit.cpg
   7551 12-15-2020 15:07 SubUnit/SubUnit.dbf
    168 12-15-2020 15:07 SubUnit/SubUnit.prj
    132 12-15-2020 15:07 SubUnit/SubUnit.sbn
    116 12-15-2020 15:07 SubUnit/SubUnit.sbx
   2252 12-15-2020 15:07 SubUnit/SubUnit.shp
    108 12-15-2020 15:07 SubUnit/SubUnit.shx
      5 12-15-2020 15:00 GroundWaterBody/GroundWaterBody.cpg
 100010 12-15-2020 15:00 GroundWaterBody/GroundWaterBody.dbf
    168 12-15-2020 15:00 GroundWaterBody/GroundWaterBody.prj
    268 12-15-2020 15:00 GroundWaterBody/GroundWaterBody.sbn
    124 12-15-2020 15:00 GroundWaterBody/GroundWaterBody.sbx
 133964 12-15-2020 15:00 GroundWaterBody/GroundWaterBody.shp
    220 12-15-2020 15:00 GroundWaterBody/GroundWaterBody.shx
-----
 1480238                               35 files
```

The content of the file depends on the country.
Each shapefile must be in a separate folder.

This step is only necessary if you want to start with a prefilled set of shapefiles.

If you already have prepared your delivery, you don't need to do this.

You can now edit the shapefiles in your GIS software

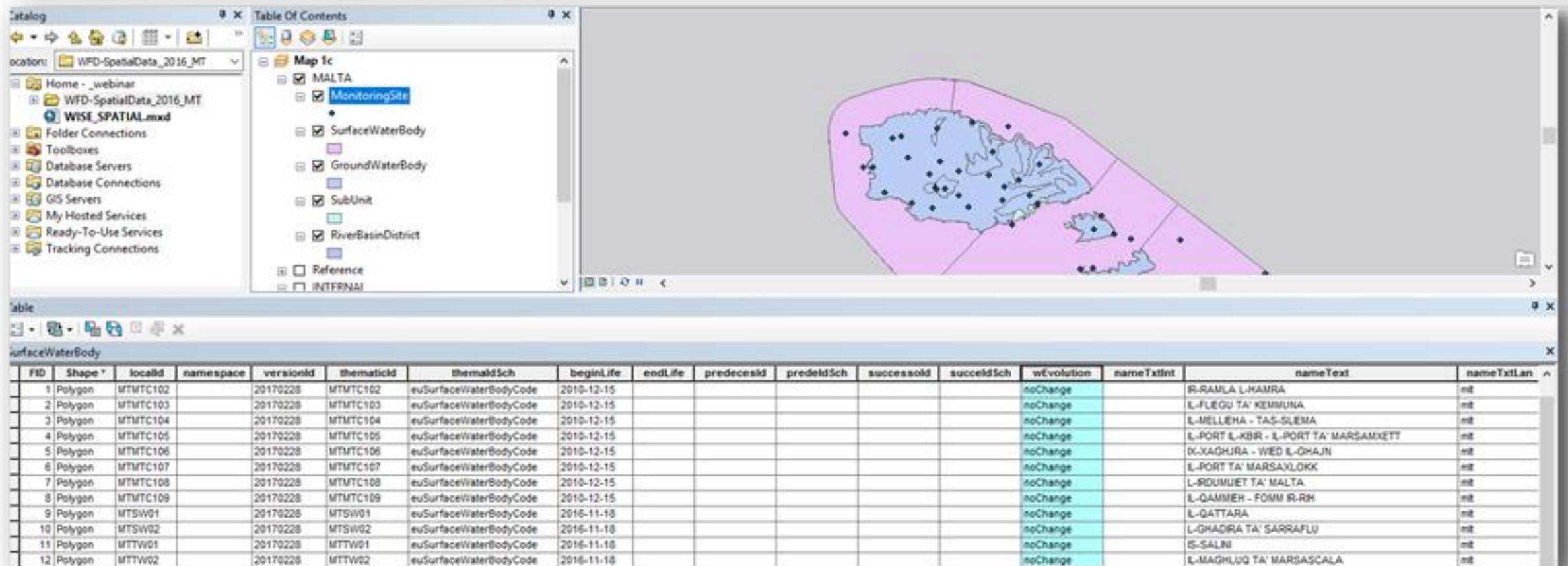


The screenshot displays a GIS software interface with three main components: a Catalog, a Table of Contents, and a map view. The Catalog shows a project folder 'WFD-SpatialData_2016_MT' containing a 'WISE_SPATIAL.mxd' file. The Table of Contents lists layers for 'Map 1c', including 'MALTA', 'MonitoringSite', 'SurfaceWaterBody', 'GroundWaterBody', 'SubUnit', 'RiverBasinDistrict', 'Reference', and 'INTERNAL'. The map view shows the island of Malta with a pink background, blue water bodies, and black dots representing monitoring sites.

Below the map, a table titled 'surfaceWaterBody' is displayed. The table has the following columns: FID, Shape, localId, namespace, versionId, thematicId, thematicSch, beginLife, endLife, predeceald, predeIdSch, successold, succeldSch, wEvolution, nameTxtInt, nameText, and nameTxtLan. The table contains 12 rows of data, each representing a different water body in Malta.

FID	Shape	localId	namespace	versionId	thematicId	thematicSch	beginLife	endLife	predeceald	predeIdSch	successold	succeldSch	wEvolution	nameTxtInt	nameText	nameTxtLan
1	Polygon	MTMTC102		20170228	MTMTC102	euSurfaceWaterBodyCode	2010-12-15						noChange		IR-RAMLA L-HAMRA	mt
2	Polygon	MTMTC103		20170228	MTMTC103	euSurfaceWaterBodyCode	2010-12-15						noChange		L-FLEGU TA' KEMMUNA	mt
3	Polygon	MTMTC104		20170228	MTMTC104	euSurfaceWaterBodyCode	2010-12-15						noChange		L-MELLEHA - TAS-SLEMA	mt
4	Polygon	MTMTC105		20170228	MTMTC105	euSurfaceWaterBodyCode	2010-12-15						noChange		L-PORT L-KBR - L-PORT TA' MARSAMXETT	mt
5	Polygon	MTMTC106		20170228	MTMTC106	euSurfaceWaterBodyCode	2010-12-15						noChange		IX-XAGHURA - WIED L-GHAJN	mt
6	Polygon	MTMTC107		20170228	MTMTC107	euSurfaceWaterBodyCode	2010-12-15						noChange		L-PORT TA' MARSAXLOKK	mt
7	Polygon	MTMTC108		20170228	MTMTC108	euSurfaceWaterBodyCode	2010-12-15						noChange		L-RDUMJET TA' MALTA	mt
8	Polygon	MTMTC109		20170228	MTMTC109	euSurfaceWaterBodyCode	2010-12-15						noChange		L-QAMMEH - FOMM IR-RH	mt
9	Polygon	MTSIW01		20170228	MTSIW01	euSurfaceWaterBodyCode	2016-11-18						noChange		L-QATTARA	mt
10	Polygon	MTSIW02		20170228	MTSIW02	euSurfaceWaterBodyCode	2016-11-18						noChange		L-QHADRA TA' SARRAFU	mt
11	Polygon	MTTW01		20170228	MTTW01	euSurfaceWaterBodyCode	2016-11-18						noChange		IS-SALNI	mt
12	Polygon	MTTW02		20170228	MTTW02	euSurfaceWaterBodyCode	2016-11-18						noChange		L-MAGHLUQ TA' MARSASCALA	mt

If nothing has changed since the last delivery...



The screenshot displays the ArcGIS interface. On the left, the 'Catalog' pane shows the project location 'WFD-SpatialData_2016_MT'. The 'Table Of Contents' pane shows a map titled 'Map 1c' with several layers, including 'MonitoringSite', 'SurfaceWaterBody', 'GroundWaterBody', 'SubUnit', and 'RiverBasinDistrict'. The main map area shows a map of Malta with a pink shaded area and several black dots representing monitoring sites. Below the map, a table titled 'surfaceWaterBody' is displayed with the following columns: FID, Shape, localId, namespace, versionId, thematicId, thematicSch, beginLife, endLife, predeceald, predeIdSch, successold, succeldSch, wEvolution, nameTxtInt, nameText, and nameTxtLan.

FID	Shape	localId	namespace	versionId	thematicId	thematicSch	beginLife	endLife	predeceald	predeIdSch	successold	succeldSch	wEvolution	nameTxtInt	nameText	nameTxtLan
1	Polygon	MTMTC102		20170228	MTMTC102	euSurfaceWaterBodyCode	2010-12-15						noChange		IR-RAJLA L-HAMRA	mt
2	Polygon	MTMTC103		20170228	MTMTC103	euSurfaceWaterBodyCode	2010-12-15						noChange		L-FLEGU TA' KEMMUNA	mt
3	Polygon	MTMTC104		20170228	MTMTC104	euSurfaceWaterBodyCode	2010-12-15						noChange		L-MELLEHA - TAS-SLEMA	mt
4	Polygon	MTMTC105		20170228	MTMTC105	euSurfaceWaterBodyCode	2010-12-15						noChange		L-PORT IL-KBR - IL-PORT TA' MARSAMXETT	mt
5	Polygon	MTMTC106		20170228	MTMTC106	euSurfaceWaterBodyCode	2010-12-15						noChange		IX-XAGHURA - WIED IL-GHAJN	mt
6	Polygon	MTMTC107		20170228	MTMTC107	euSurfaceWaterBodyCode	2010-12-15						noChange		L-PORT TA' MARSAXLOKK	mt
7	Polygon	MTMTC108		20170228	MTMTC108	euSurfaceWaterBodyCode	2010-12-15						noChange		L-RDUMJET TA' MALTA	mt
8	Polygon	MTMTC109		20170228	MTMTC109	euSurfaceWaterBodyCode	2010-12-15						noChange		L-QAMMEH - FOMM IR-RH	mt
9	Polygon	MTSW01		20170228	MTSW01	euSurfaceWaterBodyCode	2016-11-18						noChange		L-QATTARA	mt
10	Polygon	MTSW02		20170228	MTSW02	euSurfaceWaterBodyCode	2016-11-18						noChange		L-GHADRA TA' SARRAFU	mt
11	Polygon	MTTW01		20170228	MTTW01	euSurfaceWaterBodyCode	2016-11-18						noChange		IS-SALNI	mt
12	Polygon	MTTW02		20170228	MTTW02	euSurfaceWaterBodyCode	2016-11-18						noChange		L-MAGHUQ TA' MARSASCALA	mt



Just fill in any missing data, and set **wiseEvolutionType** = 'noChange'

If you need to add, remove or change records...

Please refer to the chapter about **life-cycle management** in the WISE GIS Guidance.

It contains examples for all the possible cases.

Contact

wisesoe.helpdesk@eionet.europa.eu

if you need further clarifications.

The image shows a PDF viewer interface for 'WISE_GIS_Guidance.pdf'. The left sidebar contains a table of contents with the following items:

- Coordinate reference systems
- Metadata
- Data exchange
- Data policy
- WISE spatial data set and INSPIRE themes
- Identifier management
- Life-cycle management
 - Overview
 - Life-cycle information
 - Creation
 - Aggregation
 - Splitting
 - Combined aggregation and splitting
 - Changes in the spatial extent
 - Changes in the identifier of an object
 - Changes in the geometry
 - No changes
 - Deletion
 - Special case: constraints and quality control
 - Special case: invalid objects
- Note on the WISE register
- References

The main content area displays the 'Life-cycle information' chapter. The page number is 70 / 80 and the zoom level is 57%. The page content includes:

Life-cycle information

Life-cycle management has different complementary aspects:

- To keep track of the status of real-world entities;
- To keep track of the status of their representation, as objects in a data set;
- To keep track of their longitudinal succession in time.

The life-cycle of each real-world entity is registered using the following elements:

- For monitoring sites:
 - operationalActivityPeriodBegin**;
 - operationalActivityPeriodEnd**.
- For water bodies, sub-units, river basin districts and protected areas:
 - designationPeriodBegin**;
 - designationPeriodEnd**.

The life-cycle of each spatial object in the data set is registered using the following elements:

- beginLifeSpanVersion**;
- endLifeSpanVersion**;
- versionId** (if the Data Provider chooses to report it explicitly as recommended).

This set of elements allows the creation of snapshots, i.e. data sets that include the spatial objects representing the real-world entities that are valid at a given moment in time.

However, tracking their succession in time requires two additional elements: **predecessors** and **successors**. Using these elements, an explicit log can be kept of any longitudinal changes in the data sets. (Note that for monitoring sites, the equivalent elements are **supersedes** and **supersededBy**.)

One final element is used: **wiseEvolutionType**. It registers the type event that generated the object.

Figure 37. Valid options for the **wiseEvolutionType** element.

EvolutionTypeValue
+ creation
+ deletion
+ aggregation
+ splitting
+ change
+ changeCode
+ changeBothAggregationAndSplitting
+ changeExtendedArea
+ changeExtendedDepth
+ changeExtendedAreaAndDepth
+ changeReducedArea
+ changeReducedDepth
+ changeReducedAreaAndDepth
+ noChange

Uploading and converting the updated ZIP file

Overview **Draft delivery** Edit properties History

Draft delivery

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you must run the automatic quality assessment on the data - this will take a few minutes, after which the envelope will be back in Draft mode.

3) Have a careful look at the report from the automatic quality assessment. You are able to check whether your data is correct by looking at the report of errors and the statistics provided by the system. **You can only release the envelope if there are no blocking errors left.**

4) Once you choose Release envelope the automatic quality assessment will be run again on the data. In case of blocking errors, the envelope **will not be released** and remain in Draft status. Otherwise, your envelope will be released and a confirmation of receipt will be issued.

Files in this envelope —
No files uploaded

Feedback for this envelope —
No feedback posted in this envelope

Add file
Add prefilled file(s)
Upload zipfile
Upload and convert file
Deactivate task



Upload and convert

This step is only necessary if you want to convert a zipped set of shapefiles.

If you already have GML files, you don't need to do this.

Uploading and converting the updated ZIP file

Upload FME convertible

This can either be a zip archive or a single file. The zipfile upload makes it possible for you to add a large number of files in one upload. The zipfile will be uploaded and unwrapped if the Unpack files in the envelope is checked.

File No file chosen  *Select the zip file*

Restrict all contained files from public view

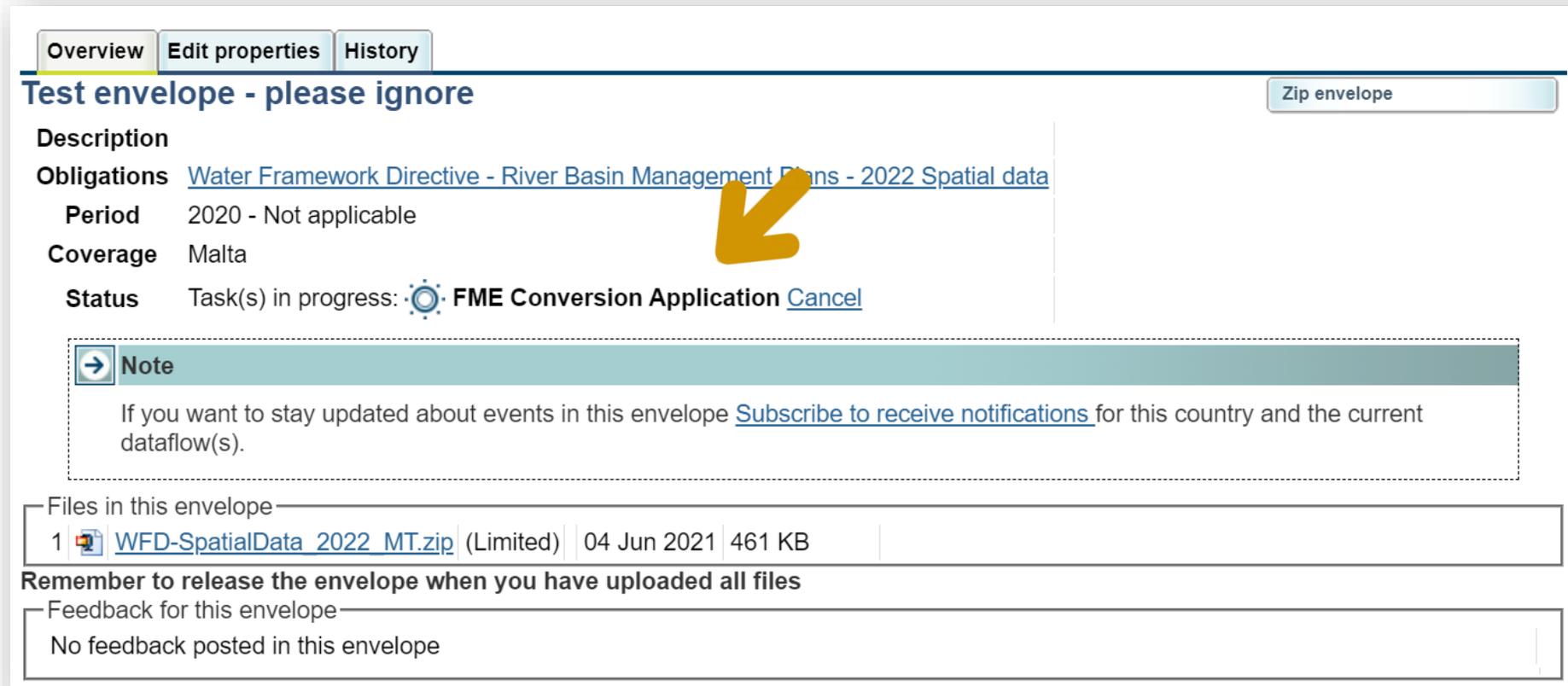
Unpack files in the envelope

 *Do not unpack the files.*

This step is only necessary if you want to convert a zipped set of shapefiles.

If you already have GML files, you don't need to do this.

Wait for the conversion process to finish...



Overview Edit properties History

Test envelope - please ignore Zip envelope

Description

Obligations [Water Framework Directive - River Basin Management Plans - 2022 Spatial data](#)

Period 2020 - Not applicable

Coverage Malta

Status Task(s) in progress:  **FME Conversion Application** [Cancel](#)

Note

If you want to stay updated about events in this envelope [Subscribe to receive notifications](#) for this country and the current dataflow(s).

Files in this envelope

1	 WFD-SpatialData_2022_MT.zip (Limited)	04 Jun 2021	461 KB
---	---	-------------	--------

Remember to release the envelope when you have uploaded all files

Feedback for this envelope

No feedback posted in this envelope

This step is only necessary if you want to convert a zipped set of shapefiles.

If you already have GML files, you don't need to do this.

The GML files are added to the envelope...

Overview **Draft delivery** Edit properties History Data quality

Draft delivery

1) Your first step is to [upload](#) one or more files into this envelope. You can always interrupt your work and continue your contribution at a later time without losing data.

2) Before releasing the envelope to the public, you must [run the automatic quality assessment on the data](#) - this will take a few minutes, after which the envelope will be back in Draft mode.

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Files in this envelope

<input type="checkbox"/>		GroundWaterBody.gml	<i>GroundWaterBody.gml</i>	04 Jun 2021	332 KB	Run QA #1	Run QA #2
<input type="checkbox"/>		MonitoringSite.gml	<i>MonitoringSite.gml</i>	04 Jun 2021	260 KB	Run QA #1	Run QA #2
<input type="checkbox"/>		RiverBasinDistrict.gml	<i>RiverBasinDistrict.gml</i>	04 Jun 2021	7.20 KB	Run QA #1	Run QA #2
<input type="checkbox"/>		SubUnit.gml	<i>SubUnit.gml</i>	04 Jun 2021	7.42 KB	Run QA #1	Run QA #2
<input type="checkbox"/>		SurfaceWaterBody.gml	<i>SurfaceWaterBody.gml</i>	04 Jun 2021	1.05 MB	Run QA #1	Run QA #2
<input type="checkbox"/>		WFD-SpatialData_2022_MT.zip (Limited)		04 Jun 2021	461 KB		

Rename Cut Copy Delete

Feedback for this envelope

 [FMEConversion results](#) (Posted automatically on 04 Jun 2021)

Buttons: Add file, Upload zipfile, Upload and convert file, Run automatic QA, Deactivate task

This step is only necessary if you want to convert a zipped set of shapefiles.

If you already have GML files, you don't need to do this.

You may now rename files if necessary...

Overview **Draft delivery** Edit properties History Data quality

Draft delivery

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<input checked="" type="checkbox"/>		MonitoringSite.gml	<i>MonitoringSite.gml</i>	04 Jun 2021	260 KB	Run QA #1	Run QA #2
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<input type="checkbox"/>		WFD-SpatialData_2022_MT.zip (Limited)		04 Jun 2021	461 KB		

[Rename](#) [Cut](#) [Copy](#) [Delete](#)

Feedback for this envelope

 [FMEConversion results](#) (Posted automatically on 04 Jun 2021)

Rename Items

	GroundWaterBody.gml	to:	GroundWaterBody_MT_20210601.gml
	MonitoringSite.gml	to:	MonitoringSite_MT_20210601.gml
	RiverBasinDistrict.gml	to:	RiverBasinDistrict_MT_20210601.gml
	SubUnit.gml	to:	SubUnit_MT_20210601.gml
	SurfaceWaterBody.gml	to:	SurfaceWaterBody_MT_20210601.gml

[Ok](#) [Cancel](#)



You may now run the Quality Control...

Overview **Draft delivery** Edit properties History Data quality

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Files in this envelope

<input type="checkbox"/>		GroundWaterBody_MT_20210601.gml	<i>GroundWaterBody.gml</i>	04 Jun 2021	332 KB	<input type="button" value="Run QA #1"/>	<input type="button" value="Run QA #2"/>
<input type="checkbox"/>		MonitoringSite_MT_20210601.gml	<i>MonitoringSite.gml</i>	04 Jun 2021	260 KB	<input type="button" value="Run QA #1"/>	<input type="button" value="Run QA #2"/>
<input type="checkbox"/>		RiverBasinDistrict_MT_20210601.gml	<i>RiverBasinDistrict.gml</i>	04 Jun 2021	7.20 KB	<input type="button" value="Run QA #1"/>	<input type="button" value="Run QA #2"/>
<input type="checkbox"/>		SubUnit_MT_20210601.gml	<i>SubUnit.gml</i>	04 Jun 2021	7.42 KB	<input type="button" value="Run QA #1"/>	<input type="button" value="Run QA #2"/>
<input type="checkbox"/>		SurfaceWaterBody_MT_20210601.gml	<i>SurfaceWaterBody.gml</i>	04 Jun 2021	1.05 MB	<input type="button" value="Run QA #1"/>	<input type="button" value="Run QA #2"/>
<input type="checkbox"/>		WFD-SpatialData_2022_MT.zip	(Limited)	04 Jun 2021	461 KB		

Rename Cut Copy Delete

Feedback for this envelope

 [FMEConversion results](#) (Posted automatically on 04 Jun 2021)



Start with the XML schema checks.

XML schema validation

The structure of the GML file must be correct before it can be imported into the database, and additional validations can be run.

QA result for file GroundWaterBody_MT_20210601.gml Go back to envelope

XML Schema validation

OK XML Schema validation passed without errors.

The file was validated against
http://dd.eionet.europa.eu/schemas/WFD2022/GML_GroundWaterBody_2022.xsd

Tip: This page is only temporary. The page URL address can not be used as a reference to the result.

Please use the "*File >> Save As*" option within your browser to save the validation results.

Correcting XML schema errors

If you used the prefilled shapefiles and the CDR conversion process, any schema errors are likely due to missing values.

QA result for file Go back to envelope

XML Schema validation

BLOCKER The file does not conform to the data model defined in the XML Schema and blocks your submission. The XML Schema data model specifies the element names, document structure and data types.

The file was validated against
http://dd.eionet.europa.eu/schemas/WFD2022/GML_RiverBasinDistrict_2022.xsd

The following table lists the contradictions in document structure, elements using wrong data types or missing mandatory values.

Type	Position	Error message
ERROR	Line: 15, Col: 37	cvc-pattern-valid: Value " is not facet-valid with respect to pattern '(\p{L})[0-9]{1}.{0,253}' for type 'String254LeadingLetterOrNum'
ERROR	Line: 15, Col: 37	cvc-type.3.1.3: The value " of element 'wfdgml:inspireIdNamespace' is not valid.
ERROR	Line: 47, Col: 37	cvc-pattern-valid: Value " is not facet-valid with respect to pattern '(\p{L})[0-9]{1}.{0,253}' for type 'String254LeadingLetterOrNum'
ERROR	Line: 47, Col: 37	cvc-type.3.1.3: The value " of element 'wfdgml:inspireIdNamespace' is not valid.
ERROR	Line: 79, Col: 37	cvc-pattern-valid: Value " is not facet-valid with respect to pattern '(\p{L})[0-9]{1}.{0,253}' for type 'String254LeadingLetterOrNum'
ERROR	Line: 79, Col: 37	cvc-type.3.1.3: The value " of element 'wfdgml:inspireIdNamespace' is not valid.

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Correcting XML schema errors

The Reportnet guidance contains an annex with the list of the most important errors.

Correct those first.

Error messages



WISE_Reportnet2_Guidance.pdf 13 / 15 76%

Annex - XML Schema validation messages

Schema validation message	Issue description
cvc-type.3.1.3: The value of element 'wfdgml:inspireIdLocalId' is not valid.	The inspireIdLocalId value must be a non-empty string with less than 255 characters.
cvc-type.3.1.3: The value of element 'wfdgml:inspireIdNamespace' is not valid.	The inspireIdNamespace value must be a non-empty string with less than 255 characters.
cvc-type.3.1.3: The value of element 'wfdgml:inspireIdVersionId' is not valid.	The inspireIdVersionId value must be a non-empty string with less than 25 characters.
cvc-type.3.1.3: The value of element 'wfdgml:thematicIdIdentifier' is not valid.	The thematicIdIdentifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hifen and the underscore can be used as non-consecutive separators).
cvc-type.3.1.3: The value of element 'wfdgml:thematicIdIdentifierScheme' is not valid.	The thematicIdIdentifierScheme value is not valid (see http://dd.eionet.europa.eu/vocabulary/wise/IdentifierScheme).
cvc-type.3.1.3: The value of element 'wfdgml:hydroIdLocalId' is not valid.	The hydroIdLocalId value must be a non-empty string with less than 255 characters.
cvc-type.3.1.3: The value of element 'wfdgml:hydroIdNamespace' is not valid.	The hydroIdNamespace value must be a non-empty string with less than 255 characters.
cvc-type.3.1.3: The value of element 'wfdgml:beginLifespanVersion' is not valid.	The beginLifespanVersion value must be a valid date in the ISO 8601 extended format value (e.g. YYYY, YYYY-MM, YYYY-MM-DD).
cvc-type.3.1.3: The value of element 'wfdgml:endLifespanVersion' is not valid.	The endLifespanVersion value must be a valid date in the ISO 8601 extended format value (e.g. YYYY, YYYY-MM, YYYY-MM-DD).
cvc-type.3.1.3: The value of element 'wfdgml:predecessorIdentifier' is not valid.	The predecessorIdentifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hifen and the underscore can be used as non-consecutive separators).
cvc-type.3.1.3: The value of element 'wfdgml:predecessorIdentifierScheme' is not valid.	The predecessorIdentifierScheme value is not valid (see http://dd.eionet.europa.eu/vocabulary/wise/IdentifierScheme).
cvc-type.3.1.3: The value of element 'wfdgml:successorIdentifier' is not valid.	The successorIdentifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hifen and the underscore can be used as non-consecutive separators).
cvc-type.3.1.3: The value of element 'wfdgml:successorIdentifierScheme' is not valid.	The successorIdentifierScheme value is not valid (see http://dd.eionet.europa.eu/vocabulary/wise/IdentifierScheme).
cvc-type.3.1.3: The value of element 'wfdgml:supersedesIdentifier' is not valid.	The supersedesIdentifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hifen and the underscore can be used as non-consecutive separators).
cvc-type.3.1.3: The value of element 'wfdgml:supersedesIdentifierScheme' is not valid.	The supersedesIdentifierScheme value is not valid (see http://dd.eionet.europa.eu/vocabulary/wise/IdentifierScheme).
cvc-type.3.1.3: The value of element 'wfdgml:supersededByIdentifier' is not valid.	The supersededByIdentifier value must be a string starting with the 2-letter country code. Upper case letters (A to Z) and digits (0 to 9) are allowed in the remaining part (the hifen and the underscore can be used as non-consecutive separators).
cvc-type.3.1.3: The value of element 'wfdgml:supersededByIdentifierScheme' is not valid.	The supersededByIdentifierScheme value is not valid (see http://dd.eionet.europa.eu/vocabulary/wise/IdentifierScheme).

You may now run the automatic QC...

Overview **Draft delivery** Edit properties History Data quality

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<input type="checkbox"/>		RiverBasinDistrict_MT_20210601.gml	<i>RiverBasinDistrict.gml</i>	04 Jun 2021	7.20 KB	Run QA #1	Run QA #2
<input type="checkbox"/>		SubUnit_MT_20210601.gml	<i>SubUnit.gml</i>	04 Jun 2021	7.42 KB	Run QA #1	Run QA #2
<input type="checkbox"/>		SurfaceWaterBody_MT_20210601.gml	<i>SurfaceWaterBody.gml</i>	04 Jun 2021	1.05 MB	Run QA #1	Run QA #2
<input type="checkbox"/>		WFD-SpatialData_2022_MT.zip	(Limited)	04 Jun 2021	461 KB		

Rename Cut Copy Delete

Feedback for this envelope

 [FMEConversion results](#) (Posted automatically on 04 Jun 2021)

- Add file
- Upload zipfile
- Upload and convert file
- Run automatic QA**
- Deactivate task



Reviewing the QC results...

Click this tab



Overview Draft delivery Edit properties History **Data quality**

Results of automatic data quality checks

This page displays summary information from all automatic data quality checks for this envelope. If you want to see more detailed results, just follow the "Show more.." links to the individual feedback items.

GroundWaterBody_MT_20210501.gml

- **INFO:** GroundWaterBody Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

MonitoringSite_MT_20210501.gml

- **INFO:** MonitoringSite Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

RiverBasinDistrict_MT_20210501.gml

- **INFO:** RiverBasinDistrict Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

SubUnit_MT_20210501.gml

- **INFO:** SubUnit Import and Checks [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

SurfaceWaterBody_MT_20210501.gml

- **WARNING:** The quality control found 2 warnings - the records should be reviewed. [Show more...](#)
- **INFO:** XML Schema validation passed without errors. [Show more...](#)

Envelope test

- **BLOCKER:** The quality control found 165 blockers - the critical issues must be corrected. [Show more...](#)
- **BLOCKER:** The quality control found 6 blockers - the critical issues must be corrected. [Show more...](#)
- **INFO:** WFD 2022 Inspire Metadata Harvest and Checks [Show more...](#)

Review these **WARNINGS**
and correct them if possible



All **BLOCKERS**
need to be corrected



Correcting WARNINGS

Feedback: AutomaticQA result for file SurfaceWaterBody_MT_20210501.gml: SurfaceWaterBody Import and Checks Back to envelope

Subject: AutomaticQA result for file SurfaceWaterBody_MT_20210501.gml: SurfaceWaterBody Import and Checks

Posted automatically on: 02 Jun 2021 11:06

Task: Automatic quality assessment

Referred file: [SurfaceWaterBody_MT_20210501.gml](#)

Attached files: [gml_checks.csv \[download\]](#)

Feedback status: WARNING

Feedback message: The quality control found 2 warnings - the records should be reviewed.

SurfaceWaterBody validation

Type	Blockers	Errors	Warnings	Total
Count	0	0	2	2

> Summary

Type	Code	Issue description	Count
Warning	RC51A	Data providers reporting under WISE SoE must report the meanDepth value for lakes and standing water bodies.	2

Showing 1 to 1 of 1 entries Previous **1** Next

> GML QC Checks (the table shows a maximum of 250 issues)

Type	Code	Identifier	Where	Value	Issue
Warning	RC51A	euSurfaceWaterBodyCode.MTSW02	meanDepth		Data providers report
Warning	RC51A	euSurfaceWaterBodyCode.MTSW01	meanDepth		Data providers report

Showing 1 to 2 of 2 entries Previous **1** Next

Number of issues



Description of each issue



List of the first 250 issues



Download the full list (if there are more than 250 issues)

Correcting ERRORS

Some errors may prevent the data from being correctly imported or used. If no envelope has errors it will be analysed during the Final Feedback phase, and a resubmission may be requested.

Cross and Spatial validation

Type	Blockers	Errors	Warnings	Total
Count	0	2	22	24

> Summary



Type ↑↓	Code↑↓	Issue description	Count
Error	SA03A	The geometry must not have anomalous geometric points, such as self-intersections.	2
Warning	RC46A	Data providers reporting under WISE SoE must report the catchmentArea value for monitoring sites located in rivers.	3
Warning	SS07	The geometry of the monitoring site must be covered by or be within 200 metre of the geometry of the associated water body.	2
Warning	RR16	If a groundwater body has different horizons, each horizon should be reported.	15
Warning	SB03A	The river basin district must be within the national territory (with a 200 metre tolerance buffer).	1
Warning	DC11	The SurfaceWaterBodyCentreline file should be reported, if the SurfaceWaterBody file contains lakes or transitional waters.	1

Showing 1 to 6 of 6 entries

Previous 1 Next

Correcting BLOCKERS

Feedback: AutomaticQA result for: WFD 2022 Envelope Checks

[Back to envelope](#)

Subject:	AutomaticQA result for: WFD 2022 Envelope Checks
Posted automatically on:	02 Jun 2021 11:06
Task:	Automatic quality assessment
Attached files:	envelopeChecks.csv [download]
Feedback status:	BLOCKER
Feedback message:	The quality control found 6 blockers - the critical issues must be corrected.

Envelope validation

Type	Blockers	Errors	Warnings	Total
Count	6	0	5	11

> Summary

Type	Code	Issue description	Count
Blocker	DC07	Either the ProtectedArea file, the ProtectedAreaLine file or the ProtectedAreaPoint file should be reported.	1
Blocker	DI05A	Both the INSPIRE metadata file and the GML file should be reported.	1
Blocker	DI01A	Both the INSPIRE metadata file and the GML file should be reported.	1
Blocker	DI06A	Both the INSPIRE metadata file and the GML file should be reported.	1
Blocker	DI02A	Both the INSPIRE metadata file and the GML file should be reported.	1
Blocker	DI03A	Both the INSPIRE metadata file and the GML file should be reported.	1
Warning	DP10	GML file for this feature type is missing in the envelope.	1
Warning	DP09	GML file for this feature type is missing in the envelope.	1
Warning	DP11	GML file for this feature type is missing in the envelope.	1
Warning	DP08	GML file for this feature type is missing in the envelope.	1

The ProtectedArea files are missing



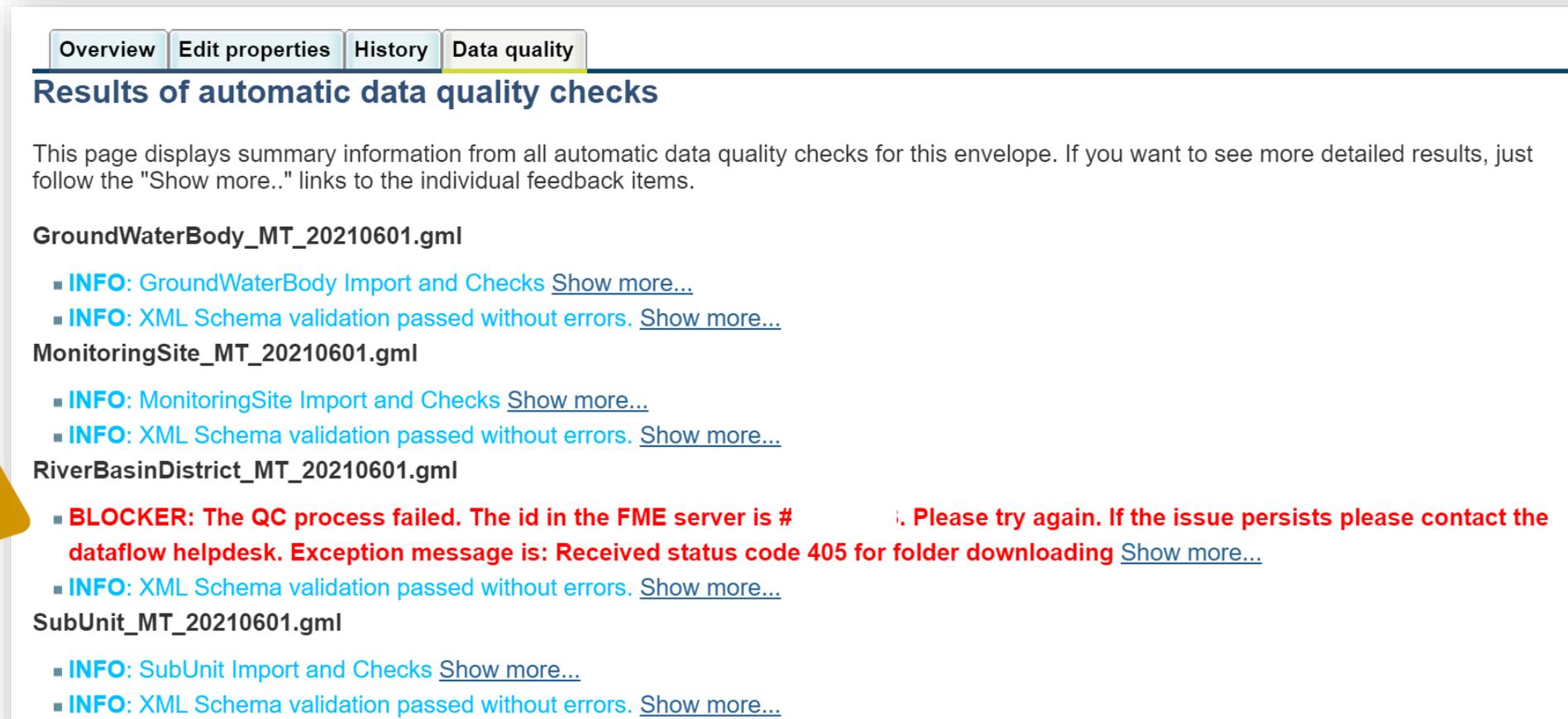
The metadata files are missing



Some optional files may be missing



If the QC fails...



The screenshot shows a web interface with a navigation bar containing 'Overview', 'Edit properties', 'History', and 'Data quality'. The 'Data quality' tab is selected. Below the navigation bar is a section titled 'Results of automatic data quality checks'. A paragraph explains that the page displays summary information from all automatic data quality checks for this envelope and that users can follow 'Show more..' links for detailed results. The results are organized into four sections, each with a list of items:

- GroundWaterBody_MT_20210601.gml**
 - **INFO:** GroundWaterBody Import and Checks [Show more...](#)
 - **INFO:** XML Schema validation passed without errors. [Show more...](#)
- MonitoringSite_MT_20210601.gml**
 - **INFO:** MonitoringSite Import and Checks [Show more...](#)
 - **INFO:** XML Schema validation passed without errors. [Show more...](#)
- RiverBasinDistrict_MT_20210601.gml**
 - **BLOCKER:** The QC process failed. The id in the FME server is # [redacted]. Please try again. If the issue persists please contact the dataflow helpdesk. Exception message is: Received status code 405 for folder downloading [Show more...](#)
 - **INFO:** XML Schema validation passed without errors. [Show more...](#)
- SubUnit_MT_20210601.gml**
 - **INFO:** SubUnit Import and Checks [Show more...](#)
 - **INFO:** XML Schema validation passed without errors. [Show more...](#)

A yellow arrow points to the 'BLOCKER' message in the 'RiverBasinDistrict_MT_20210601.gml' section.

The QC processes may fail due to limited communication or processing capacity of one of the different systems involved. If this happens, please run the QC again. Contact wisoeso.helpdesk if the error persists. Always send the link to the envelope.

Releasing the envelope

*When all the BLOCKERS are corrected, the envelope can be released.
The technical team will review it and provide the Final Feedback.*

Overview Draft delivery Edit properties History Data quality

Draft delivery

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Add file
Upload zipfile
Upload and convert file
Run automatic QA
Release envelope
Deactivate task



Questions?

WISE spatial data products

and where to find them

WISE Spatial Data Products

- The information reported to WISE is used to create **European data sets**.
 - Updated data can be reported by data providers at any time.
 - The published European data sets are updated every year.
- Different products are available:
 - Downloadable data sets.
 - Online map services.
 - Derived products, such as map viewers and dashboards.
- Note that:
 - the **National data sets** are kept in CDR and may have restricted access.
 - only authorised users have access to national data sets.
 - national data sets may include confidential data (e.g. some monitoring sites).

Water Framework Directive data sets in the EEA site

European Environment Agency  Topics Countries Data and maps Indicators Publications Media About us EN  Search 

[Home](#) > [Data and maps](#) > [Datasets](#) > [WISE WFD reference spatial ...](#)

DATA

WISE WFD reference spatial data sets

The Water Framework Directive (WFD) reference spatial data sets include information about European river basin districts, river basin district sub-units, surface water bodies, groundwater bodies and monitoring sites used in the first and second River Basin Management Plans (RBMP). The data sets are part of the Water Information System for Europe (WISE), and compile information reported by the EU Member States, Norway, Iceland and the United Kingdom to the European Commission (EC) and the European Environment Agency (EEA) since 2010.

Prod-ID: DAT-30-en Created 17 Apr 2020 — Published 20 Apr 2020 — Last modified 20 Apr 2020 — 2 min read

Data and maps

- Global search
- Dashboards
- Datasets
- Interactive data viewers
- External datasets catalogue
- WISE WFD reference spatial data sets**

Scroll down...



Water Framework Directive data sets in the EEA site

European data Metadata

Data download
The WISE WFD Spatial data is published in two formats: Shapefile and OGC Geopackage (SQLite) format. The files contain information for the RiverBasinDistrict, SubUnit, SurfaceWaterBody, GroundWaterBody and MonitoringSite spatial data sets, for both 2010 and 2016.

- **WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2010 - PUBLIC VERSION - version 1.4, Apr. 2020**
[Download file](#)
- **WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2016 - PUBLIC VERSION - version 1.4, Apr. 2020**
[Download file](#)
- **WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2010 - METADATA - version 1.4, Apr. 2020**
[Download file](#)
- **WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2016 - METADATA - version 1.4, Apr. 2020**
[Download file](#)

1st River Basin Management Plans →

2nd RBMPs →

Maps and graphs

Interactive maps

Indicators

Data providers and partners

European data centres

Data visualisations

↑

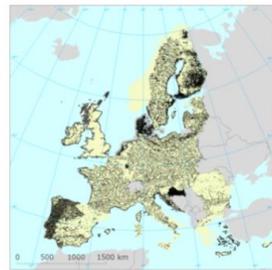
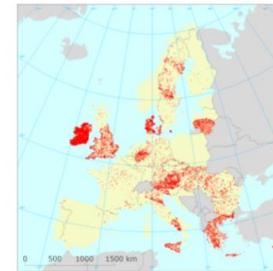
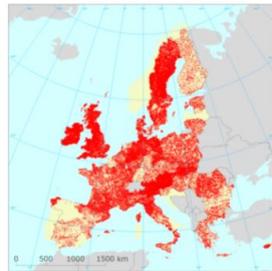
European data sets

- The European data sets are published in two different formats:
 - Shapefiles
 - OCG Geopackage (SQLite)
- Only the public content is available for download.
 - For example, the location of confidential monitoring sites is not published.
 - The access constraints set by the Data Providers are published with the data set.
- The current frequency of publication is annual (if updated data exists).

“Updating” older data to create the European data sets

The 1st RBMP data sets were improved using the 2016 data.

For example, in 2010, most Member States did not report the geometry of all water bodies (red dots in the images below). Most of that missing information could be extracted from data reported in 2016.



1st RBMP - Original data reported in 2010

1st RBMP - After the consolidation with 2016 data

The images show the **surface water bodies** of the 1st River Basin Management Plans. In the upper images, the missing data is represented by **red dots**. The lower images show the surface water bodies with known geometry. The left-hand side images show the available data before the 2016 reporting. The right-hand side images show the data, after it was combined with information reported in 2016 for the 2nd RBMPs.

Ireland, Greece and Lithuania have not yet reported the 2nd RBMPs: a new version will be prepared after these Member States report.

[status in October 2017]

Note:
A similar process
will be applied
to the 3rd RBMPs

Key messages

- All the data is published.
 - Except monitoring sites marked as confidential.
 - Except justified cases where Data Providers explicitly request it, and state it in the metadata that accompanies each national dataset (e.g. drinking water).
 - **It is important to provide accurate metadata when reporting the national data sets.** 
- The newer data is used to replace older data
 - (if the object itself has not changed, and only the geometry or some attributes were updated).
 - The data from the 2nd RBMPs was used to improve the data from the 1st RBMPs
 - The same process will be applied using the 3rd RBMPs where applicable.
 - **It is important to provide accurate life-cycle information, e.g. about changes in the identifiers.** 

European data sets as online map services

Besides downloadable data, it is also possible to access online services

- The online map services may have additional layers combining the spatial data with “descriptive” data about ecological status, chemical status, etc..
- The services can be viewed directly in a browser, or used in any standard GIS software that supports OGC services.

There are several ways to access the services.

Access to online services using the metadata catalog

The screenshot shows the WISE Water metadata catalog interface. At the top left is the WISE logo and the text 'Water'. To the right are 'Search' and 'Map' links. In the top right corner, there is a 'Sign in' button. Below the header is a search bar with the placeholder text 'Search ...' and a magnifying glass icon. Below the search bar, it says 'Search 44 data sets, services and maps, ...'. The main content area is divided into two sections: 'Browse by' and 'Type of resources'. The 'Browse by' section has two radio buttons: 'INSPIRE themes' (selected) and 'EEA topics'. Under 'INSPIRE themes', there are three categories: 'Area management/restricti...' (21 items), 'Oceanographic geographi...' (6 items), and 'Sea regions' (1 item). Under 'EEA topics', there are three categories: 'Environmental monitoring f...' (9 items), 'Utility and governmental s...' (4 items), and 'Natural risk zones' (1 item). The 'Type of resources' section has two categories: 'Dataset' (30 items) and 'Service' (14 items). A large yellow arrow points to the 'Dataset' category. At the bottom left, there are three buttons: 'Latest news', 'Most popular', and 'Featured searches'. At the bottom right, there are three icons: a grid, a list, and a menu. The footer contains the text 'Powered by GeoNetwork 4.0.2.0' and several social media links: 'About', 'Github', 'API', 'Share on social sites', 'Twitter', 'Facebook', 'LinkedIn', 'Email', and 'RSS'.

<https://sdi.eea.europa.eu/catalogue/water/eng/catalog.search#/home>

Metadata catalog

WISE Water Search Map Sign in

Search ...

Active filters ✕

Type of resources Service

Filter

Type of resources ▼

- Service (14)

INSPIRE themes ▼

- Area management/restriction/regulati... (11)
- Environmental monitoring facilities (3)

Organizations ▶

Temporal extent ▶

« < 14 results > » Sorted by popularity ⬇ ⌵

WISE WFD surface water bodies reported under Water Framework Directive 2016 - ...



The service contains information on the European surface water bodies delineated for the 2nd River Basin Management Plans...

European Environment Agency



WISE WFD river basin districts and sub-units reported under Water Framework...



The web service contains information on the European river basin districts and sub-units delineated for the 1st River Basin ...

European Environment Agency



WISE WFD groundwater bodies reported under Water Framework Directive 2016 - Web...



The service contains information on the European groundwater bodies delineated for the 2nd River Basin Management Plans...

European Environment Agency



MAP

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Metadata fiche

EEA geospatial data catalogue Search Map Sign in

Back to search Previous Next Download Display mode

WISE WFD monitoring sites reported under Water Framework Directive 2016 - Web Service

The service contains information on the European monitoring sites used for the assessment of the status of surface water bodies and groundwater bodies in the 2nd River Basin Management Plans (RBMP).

The information was reported to the European Commission under the Water Framework Directive (WFD) reporting obligations.

The dataset compiles the available spatial data related to the 2nd RBMPs due in 2016 (hereafter WFD2016). See <http://rod.eionet.europa.eu/obligations/715> for further information on the WFD2016 reporting.

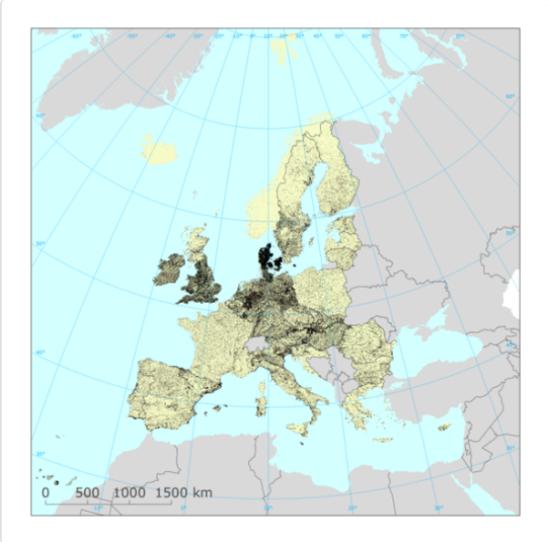
Relevant concepts:

Monitoring site: [Operational definition. Not in the WFD] Monitoring point included in a WFD surveillance, operational or investigative monitoring programme.

Surface water body: Body of surface water means a discrete and significant element of surface water such as a lake, a reservoir, a stream, river or canal, part of a stream, river or canal, a transitional water or a stretch of coastal water.

Surface water: Inland waters, except groundwater; transitional waters and coastal waters, except in respect of chemical status for which it shall also include territorial waters.

Overview



Spatial extent

Powered by GeoNetwork 4.0.2.0 About Github API

Scroll down...



Links to map services

Groundwater body: Body of groundwater means a distinct volume of groundwater within an aquifer or aquifers.
Groundwater: All water which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

Download and links

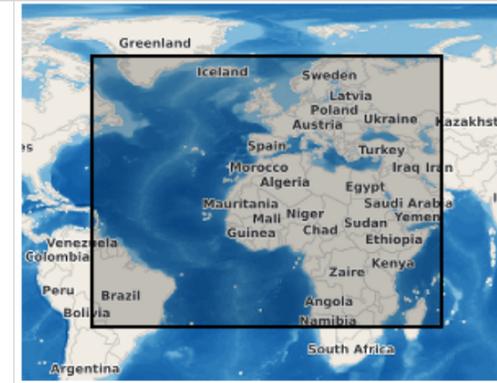
 WMS	0 MonitoringSite This dataset is published in the view service (WMS) available at https://water.discomap.eea.europa.eu/arcgis/services/WISE_WFD/WFD2016_MonitoringSite_WM/MapServer/WMS_Server?request=GetCapabilities&service=WMS with layer name 0.	Add to map
 ESRI:REST	ESRI REST service https://water.discomap.eea.europa.eu/arcgis/rest/services/WISE_WFD/WFD2016_MonitoringSite_WM/MapServer .	Add to map

View online...



Associated resources

	WISE WFD Reference Spatial Datasets reported under Water Framework Directive 2016 - INTERNAL VERSION - version 1.4, Apr. 2020	Related dataset
---	---	-----------------



Resource events



Publication

15-04-2019

Temporal extent

05-05-2016 31-03-2019

Provided by



Example with the monitoring sites service

The screenshot displays the EEA geospatial data catalogue interface. At the top left, the logo and text 'EEA geospatial data catalogue' are visible, along with 'Search' and 'Map' buttons. A 'Sign in' button is located at the top right. Below the header is a search bar with the placeholder text 'Search for a place'. The main area is a map of Spain and the Balearic Islands, overlaid with a dense layer of black dots representing monitoring sites. On the left side of the map, there are navigation controls: a plus sign for zooming in, a minus sign for zooming out, a crosshair for full-screen, and a grid icon for the layer manager. On the right side, a 'Manage layers' panel is open, showing a checked layer named 'WFD2016_MonitoringSite_WM' with a gear icon and a 'Hide legend' link. Below this, the background map is set to 'EEA basemap / EEA38', and there is a 'Default map' button. At the bottom of the interface, there is a footer with the text 'Powered by GeoNetwork 4.0.2.0' and links for 'About', 'Github', 'API', and 'Share on social sites', accompanied by social media icons for Twitter, Facebook, LinkedIn, Email, and Print.

EEA geospatial data catalogue Search Map Sign in

Search for a place

Manage layers

WFD2016_MonitoringSite_WM [Hide legend](#)

MonitoringSite

Background map: EEA basemap / EEA38

Default map

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Direct access to the online map services

For GIS users, a faster way is to go directly to the web map server, and use the service directly in the GIS software...

ArcGIS REST Services Directory [Login](#) | [Get Token](#)

[Home](#) > [services](#) > [WISE_WFD](#) [Help](#) | [API Reference](#)

[JSON](#) | [SOAP](#)

Folder: WISE_WFD

Current Version: 10.81

View Footprints In: [ArcGIS Online Map Viewer](#)

Services:

- [WISE_WFD/WFD2010_GroundWaterBody_WM](#) (MapServer)
- [WISE_WFD/WFD2010_MonitoringSite_WM](#) (MapServer)
- [WISE_WFD/WFD2010_RiverBasinDistrict_WM](#) (MapServer)
- [WISE_WFD/WFD2010_SurfaceWaterBody_WM](#) (MapServer)
- [WISE_WFD/WFD2016_GroundWaterBody_WM](#) (MapServer)
- [WISE_WFD/WFD2016_GroundWaterBodyHorizon_WM](#) (MapServer)
- [WISE_WFD/WFD2016_MonitoringSite_WM](#) (MapServer)
- [WISE_WFD/WFD2016_ProtectedArea_WM](#) (MapServer)
- [WISE_WFD/WFD2016_QualityElements_WM](#) (MapServer)
- [WISE_WFD/WFD2016_RiverBasinDistrict_WM](#) (MapServer)
- [WISE_WFD/WFD2016_SurfaceWaterBody_WM](#) (MapServer)

Supported Interfaces: [REST](#) [SOAP](#) [Sitemap](#) [Geo Sitemap](#)

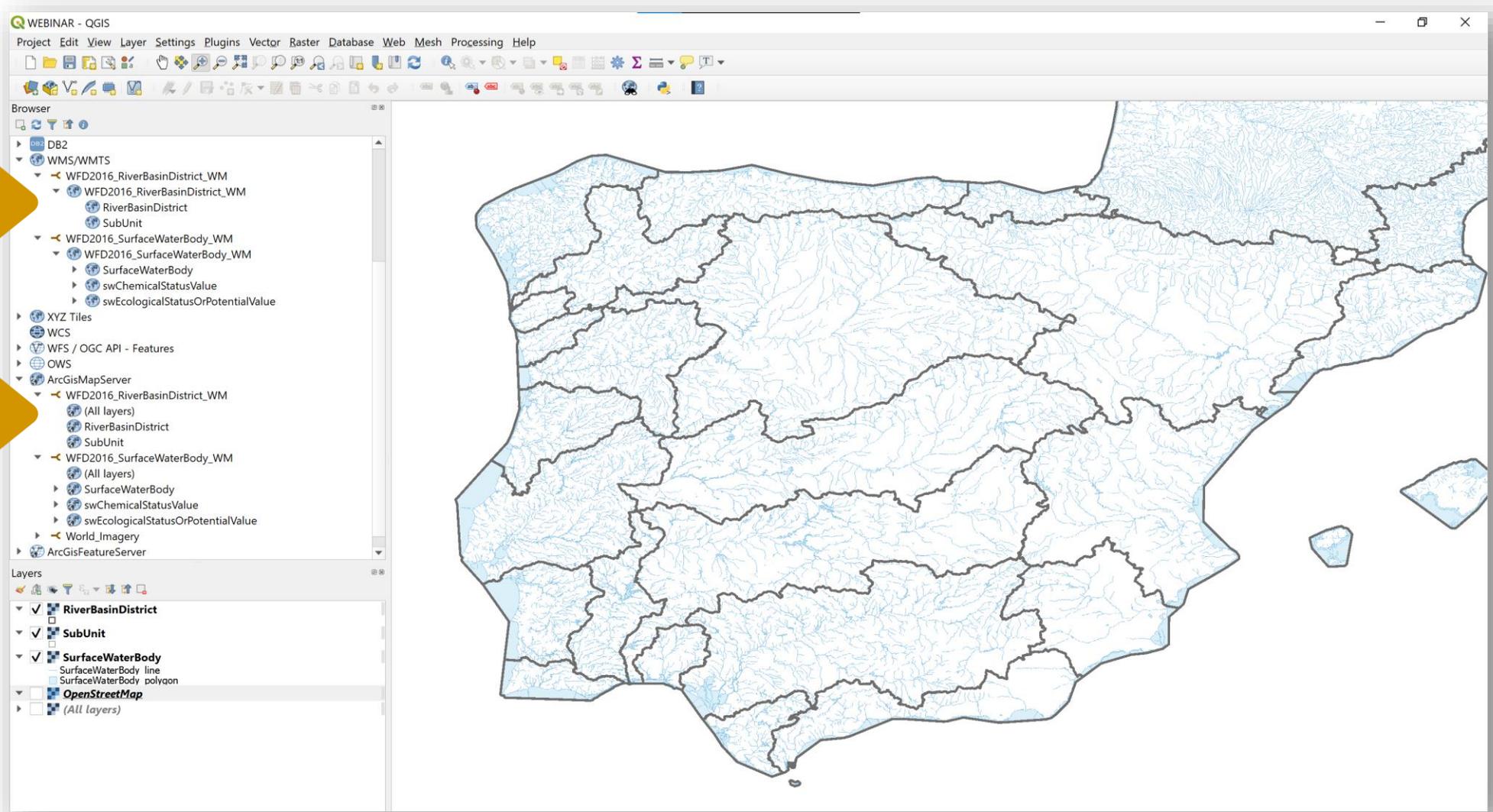
https://water.discomap.eea.europa.eu/arcgis/rest/services/WISE_WFD

Example in QGIS

WMS



ArcGIS
server



Portal: online map services, map viewers,...

The easiest way to access the WISE group in the EEA Portal

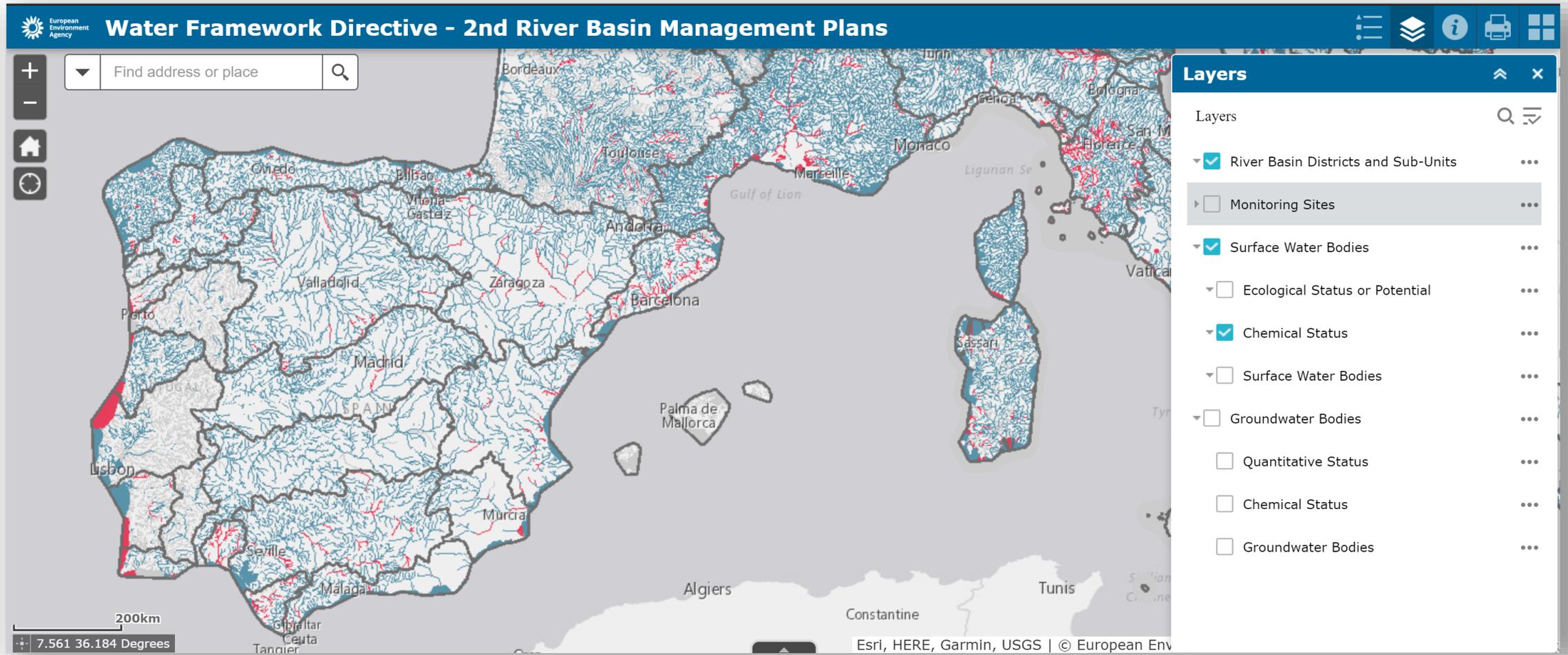
The screenshot displays the WISE - Water Information System for Europe portal. The header includes the title "WISE - Water Information System for Europe" and navigation tabs for "Overview", "Content", and "Members". A search bar is located below the header. The main content area shows a grid of map services, with a filter applied for "Category: Water Framework Directive". The grid displays four items, each with a map thumbnail, a title, a description, creation and update dates, and a view count. The items are:

- QE1 - Biological quality ...** by European Environ...
Created: Aug. 10, 2020
Updated: Jun. 1, 2021
View Count: 11,856
- QE1-1 - Phytoplankton** by European Environ...
Created: Aug. 10, 2020
Updated: Jun. 1, 2021
View Count: 11,809
- QE1-2 - Other aquatic fl...** by European Environ...
Created: Aug. 10, 2020
Updated: Jun. 1, 2021
View Count: 11,828
- QE1-2-1 - Macroalgae** by European Environ...
Created: Aug. 10, 2020
Updated: Jun. 1, 2021
View Count: 11,838

On the left side, there are filter sections for "Group Categories" and "Item Type". The "Group Categories" section includes "Uncategorized", "Water Framework Directive (41)", "EIONET spatial data sets (4)", "WISE State of Environment (34)", "Bathing Water Directive (7)", "Urban Waste Water Treatment Directive (1)", "Floods Directive", and "Other (1)". The "Item Type" section includes "Maps" and "Layers".

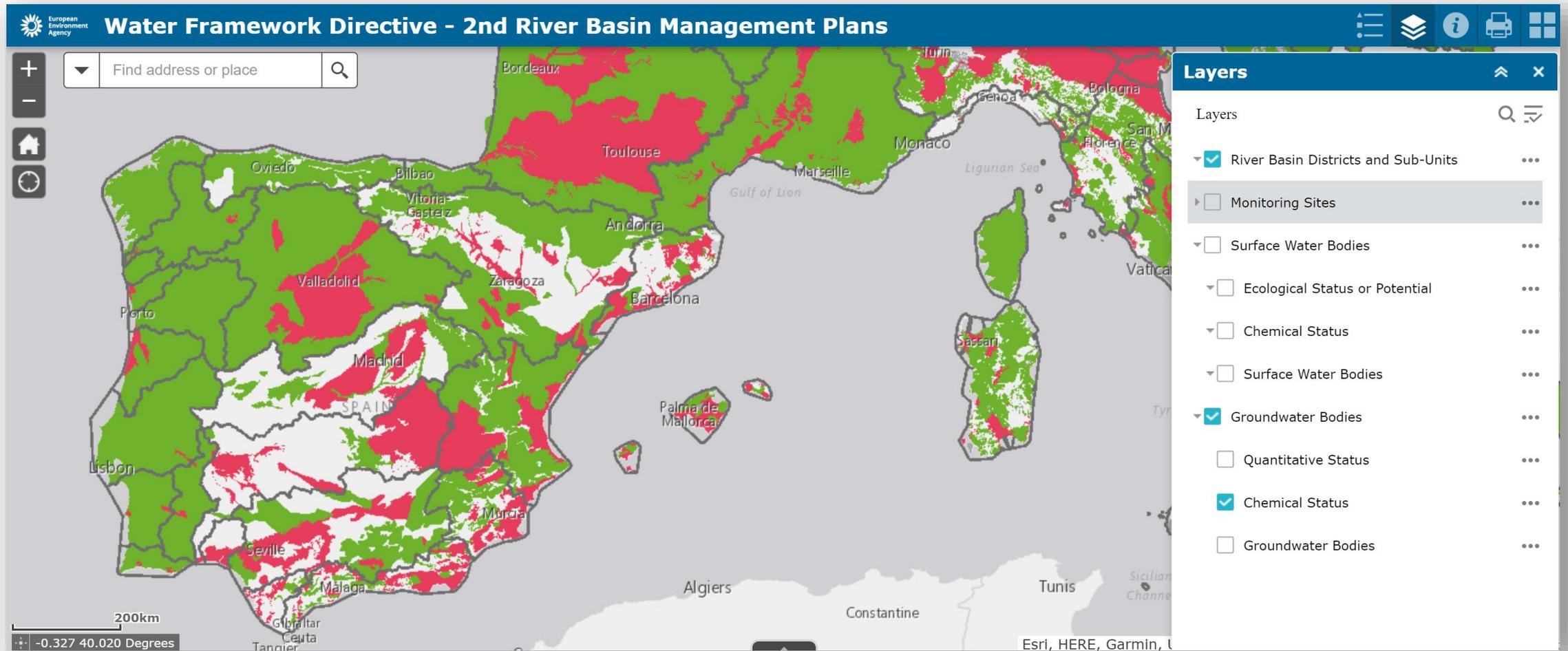
WFD 2nd River Basin Management Plans

Example: Chemical status of surface water bodies



WFD 2nd River Basin Management Plans

Example: Chemical status of groundwater bodies



WFD Quality Elements map viewer

Example: Detailed information at Quality Element level



WISE EIONET spatial data sets

DATA

WISE EIONET spatial data sets

The European environment information and observation network (Eionet) spatial data sets include information about European river basin districts, river basin district sub-units, surface water bodies, groundwater bodies and monitoring sites. The data sets are part of the Water Information System for Europe (WISE), and compile information reported to the European Environment Agency (EEA) since 2001. For the EEA Member countries and cooperating countries not reporting under WFD, the EIONET spatial data sets are the most up-to-date information available in WISE. The coverage is complete for Switzerland, and partial for the remaining countries (Liechtenstein, Turkey, Albania, Bosnia and Herzegovina, Montenegro, North Macedonia, Serbia and Kosovo). For the 27 European Union Member States, Iceland, Norway and the United Kingdom, the Water Framework Directive (WFD) reference spatial data sets are the most complete and up-to-date information available in WISE (only the EIONET monitoring sites and EIONET water bodies that could not be mapped to WFD spatial objects are included in the EIONET spatial data set).

Prod-ID: DAT-204-en Created 16 Mar 2021 — Published 23 Mar 2021 — Last modified 23 Mar 2021 — 1 min read

Access to the data works as shown for the other datasets

Data and maps

Global search

Dashboards

Datasets

Interactive data viewers

External datasets catalogue

WISE EIONET spatial data sets

Data download

Maps and graphs

Interactive maps

Indicators

Data providers and partners

